Capstone project 2 – Agile Scrum Project

Question 1 – write Agile Manifesto – 8 Marks

Agile is an iterative approach to project management and software development that helps teams deliver value to their customers faster and with fewer headaches. The approach offers users new versions, or releases of software following brief periods of work. Those brief periods of work are often called sprints.

This Agile process contrasts with the traditional waterfall approach to software development, where developers typically compile the needs and requirements of the users and then build the software all at once. With these traditional methodologies, the completed project is released at the very end of the project cycle.

**Four values of Agile**

The four core values of Agile software development as stated by the Agile Manifesto are:

* individuals and interactions over processes and tools;
* working software over comprehensive documentation; ● customer collaboration over contract negotiation; and ● responding to change over following a plan.

**The 12 principles**

The 12 principles articulated in the Agile Manifesto are:

1. Satisfying customers through early and continuous delivery of valuable work.
2. Breaking big work down into smaller tasks that can be completed quickly.
3. Recognizing that the best work emerges from self-organized teams.
4. Providing motivated individuals with the environment and support they need and trusting them to get the job done.
5. Creating processes that promote sustainable efforts.
6. Maintaining a constant pace for completed work.
7. Welcoming changing requirements, even late in a project.
8. Assembling the project team and business owners on a daily basis throughout the project. 9. Having the team reflect at regular intervals on how to become more effective, then tuning and adjusting behavior accordingly.
9. Measuring progress by the amount of completed work.
10. Continually seeking excellence.
11. Harnessing change for a competitive advantage.

**More on Agile Principles:**

* 1. Customer satisfaction by early and continuous delivery of valuable software.
  2. Welcome changing requirements, even in late development.
  3. Deliver working software frequently (weeks rather than months).
  4. Close, daily cooperation between business people and developers.
  5. Projects are built around motivated individuals, who should be trusted.
  6. Face-to-face conversation is the best form of communication (co-location).
  7. Working software is the primary measure of progress.
  8. Sustainable development, able to maintain a constant pace.
  9. Continuous attention to technical excellence and good design.
  10. Simplicity—the art of maximizing the amount of work not done—is essential.
  11. Best architectures, requirements, and designs emerge from self-organizing teams.
  12. Regularly, the team reflects on how to become more effective, and adjusts accordingly.

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| Question 2 – User Stories- Acceptance Criteria-**Business Value**-**Complexity** | | | | | |
| **Points** – 40 Marks | |  | | | |
| **User Story No: 1** | | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** DELIVERY BOY | | | | | |
| **I WANT** TO REGISTER IN SCRUM FOODS | | | | | |
| **SO THAT I** CAN DELIVER ORDERS | | | | | |
| **BV : 500** | | | **CP- 2** | | |
| **ACCEPTANCE CRITERIA** | | | | | |
| Registration Screen | | | | | |
| Text Boxes for User Name, Password, Nation ID, Mobile No, Email, Address, Phone Number. | | | | | |
| Click on Register Button. | | | | | |
| Send Successful Notification to the user | | | | | |
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| **User Story No: 2** | | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** RESTAURANT OWNER | | | |  | |
| **I WANT** TO VIEW ORDERS | | | |  | |
| **SO THAT** I CAN VIEW THE LIST OF ORDERS | | | |  | |
| **BV : 500** | | |  | **CP- 5** | |
| **ACCEPTANCE CRITERIA** | | | |  | |
| View Order, Display List of orders in the tabular Form , Each order entry should be clickable ,  The owner should be able to search for specific order number , customer number  Theowner should be able to change the status. | | | |  | |

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| **User Story No: 3** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS A** CUSTOMER | | |  |
| **I WANT** TO ADD THE ADDRESS | | |  |
| **SO THAT** I CAN GET THE ORDER TO MY ADDRESS | | |  |
| **BV : 500** | |  | **CP- 2** |
| **ACCEPTANCE CRITERIA** | | |  |
| User should be able to navigate address section  User should be able to see add a new address | | |  |
| User should be able to edit state pincode etc  User should have the option to save the address | | |  |
| **Business Rules:** Within the radius of 5 km | | |  |
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| **User Story No: 4** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS A** CUSTOMER | | | |
| **I WANT** TO SELECT THE PAYMENT MODE | | | |
| **SO THAT** I CAN MAKE PAYMENT OF MY CHOICE | | | |
| **BV : 500** | | **CP- 3** | |
| **ACCEPTANCE CRITERIA** | | | |
| Display payment modes, radio buttons to select payment modes, payments button. | | | |
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| **Business Rules:** Can select only one payment mode | | | |
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| **User Story No: 5** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS AN** ADMIN | | | |
| **I WANT** TO VIEW THE RESTAURANTS | | | |
| **SO THAT** I CAN APPROVE THEIR REGISTRATION | | | |
| **BV : 500** | | **CP- 2** | |
| **ACCEPTANCE CRITERIA** | | | |
| List of restaurant, select Restaurants, verify restaurant details, approve button, reject button, | | | |
| notification to the restaurant. | | | |
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| **User Story No: 6** | **Tasks: 2** | | **Priority: LOW** |
| **AS A** CUSTOMER |  | |  |

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| **I WANT TO** VIEW THE PRICE | |  | | |
| **SO THAT** I CAN ORDER THE FOOD | |  | | |
| **BV : 50** | | **CP- 1** | | |
| **ACCEPTANCE CRITERIA** | |  | | |
| Display price in the list of menu items  The price should be in local currency | |  | | |
| If the product is on sale then the discounted price should be availble | |  | | |
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| **User Story No: 7** | **Tasks: 2** | | **Priority: LOW** | |
| **AS A** CUSTOMER | | |  | |
| **I WANT TO** VIEW THE CONTACT NUMBER OF DELIVERY BOY | | |  | |
| **SO THAT** I CAN CONTACT DELIVERY BOY FOR THE STATUS | | |  | |
| **BV : 50** | |  | **CP-1** | |
| **ACCEPTANCE CRITERIA** | | |  | |
| 1.Display delivery boy mobile number | | |  | |
| 2.Display delivery boy name in tracking field | | |  | |
| 3.Display delivery boy picture | | |  | |
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| **User Story No: 8** | **Tasks: 2** | |  | **Priority: MEDIUM** |
| **AS A** RESTAURANT OWNER | | | |  |
| **I WANT TO** PROVIDE TIME SLOTS | | | |  |
| **SO THAT** CUSTOMER CAN CHECK OPENING AND CLOSING HOURS | | | |  |
| **BV : 100** | |  | | **CP-2** |
| **ACCEPTANCE CRITERIA** | | | |  |
| 1. Click on restaurant dashboard | | | |  |
| 2. Add from time to time | | | |  |
| 3. Click on submit | | | |  |
| 4. Display updated successfully | | | |  |
| **User Story No: 10** | **Tasks: 3** | | **Priority: HIGH** | |
| **AS A** REG ADMIN | | | | |
| **I WANT TO** MANAGE REGIONAL RESTAURANTS, | | | | |
| **SO THAT** I CAN TRACK THE PERFORMANCE OF REGIONAL RESTAURANTS. | | | | |
| **BV : 200** | | **CP-3** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| CLICK ON PERFORMANCE OF RESTAURANTS | | | | |
| SELECT FROM DATE TO DATE | | | | |

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| CLINCK ON GENERATE REPORT WHICH INCLUSES RESTAURANTS ID, NAME, REVENUE | | | | |
| CLICK ON DOWNLOAD REPORT SHOULD BE IN EXCEL | | | | |
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| **User Story No: 11** | **Tasks: 2** | | | **Priority: MEDIUM** |
| **AS A** ADMIN | | | | |
| **I WANT TO** SEE THE REGIONAL REVENUE REPORTS | | | | |
| **SO THAT** I CAN VIEW THE REGIONAL PERFORMANCE | | | | |
| **BV : 100** | | | **CP-3** | |
| **ACCEPTANCE CRITERIA** | | | | |
| SELECT REGIONAL DROP DOWN | | | | |
| VIEW PERFORMANCE OF EACH REST OF THAT REGION IN TABULAR FORM WHICH INCLUDES | | | | |
| REST NAME, REVENUE GENERATED. | | | | |
| DOWNLOAD IN EXCEL OR PDF | | | | |
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| **User Story No: 12** |  | **Tasks: 2** | | **Priority: HIGH** |
| **AS A** CUSTOMER | |  | |  |
| **I WANT TO** TO CHAT WITH REG ADMIN | |  | |  |
| **SO THAT** I CAN REQUEST FOR REFUND | |  | |  |
| **BV : 200** | |  |  | **CP-2** |
| **ACCEPTANCE CRITERIA** | |  | |  |
| 1) BR-ALL MANDATORY | |  | |  |
| 2) TEXT BOX FIELDS | |  | |  |
| 3) DISPLAY ORDER ID | |  | |  |
| 4) TEXT BOX,FOR DESCRIPTION | |  | |  |
| 5) SUBMIT BUTTON | |  | |  |
| 6) GENERATE ISSUE ID | |  | |  |
| 7) DISPLAY SUCCESSFUL | |  | |  |
| **User Story No: 14** | **Tasks: 2** | | | **Priority: HIGHEST** |
| **AS A** USER | | | |  |
| **I WANT TO** RESTAURANTS OR FOOD ITEMS | | | |  |
| **SO THAT** I CAN ORDER FOOD | | | |  |
| **BV : 500** | | |  | **CP-2** |
| **ACCEPTANCE CRITERIA** | | | |  |
| TEST FIELD FOR SEARCH DROP DOWN | | | |  |

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| DISPLAY SCREEN SHOWING NEAREST RESTAURANTS | | | |
| DISPLAY SCREEN FOOD ITEMS | | | |
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| **BUSINESS RULE :** 1.USER LOCATION IS ON 2.RESTAURANTS WITHIN 5KMS RADIUS OF LOCATION | | | |
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| **User Story No: 15** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS A** USER | | |  |
| **I WANT TO** ADD FOOD ITEMS IN CART | | |  |
| **SO THAT** I CAN PROCEED FOR PAYMENT TO OREDR FOOD | | |  |
| **BV : 100** | |  | **CP-1** |
| **ACCEPTANCE CRITERIA** | | |  |
| DISPLAY FOOD ITEMS | | |  |
| DROPDOWN BUTTON FOR ADDING ITEMS | | |  |
| ADD TO CART | | |  |
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| **User Story No: 16** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS A** USER | | |  |
| **I WANT TO** VIEW CART | | |  |
| **SO THAT** I CAN SELECT ITEMS FOR ORDER | | |  |
| **BV : 100** | |  | **CP-1** |
| **ACCEPTANCE CRITERIA** | | |  |
| DISPLAY ITEMS ADDED IN CART | | |  |
| RADIO BUTTON TO SELECT OR DESELCT THE ITEMS | | |  |
| SHOW TOTAL BILLING OF SELECTED ITEMS ON SCREEN | | |  |
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| **User Story No: 17** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS A** USER | | |  |
| **I WANT TO** MAKE PAYMENT OF SELECTED ITEMS | | |  |
| **SO THAT** I CAN ORDER THE FOOD | | |  |
| **BV : 200** | |  | **CP-1** |
| **ACCEPTANCE CRITERIA** | | |  |
| DISPLAY AVAILABLE PAYMENT MODE | | |  |
| DISPLAY FINAL AMOUNT OF BILL | | |  |

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| **User Story No: 18** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** USER | | | | |
| **I WANT TO** CANCL ORDER | | | | |
| **SO THAT** REFUND CAN BE INITIATED | | | | |
| **BV : 200** | | **CP-1** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| CANCEL ORDER OPTION | | | | |
| SELECT RESON FOR CANCELLATIN | | | | |
|  | | | | |
| **BUSINESS RULE**: ORDER CAN BE CANCELLED ONLY BEFORE TWO MINUTES FROM ORDER | | | | |
| ACCEPTED BY RESTAURANTS | | | | |
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| **User Story No: 19** | **Tasks: 2** | |  | **Priority: HIGHEST** |
| **AS A** USER | | | |  |
| **I WANT TO** UPDATE DELIVERY INSTRUCTIONS | | | |  |
| **SO THAT** ORDER WILL GET DELIVERED AS PER MY EXPECTATIONS | | | |  |
| **BV : 200** | |  | | **CP-2** |
| **ACCEPTANCE CRITERIA** | | | |  |
| ORDER PAGE SCREEN | | | |  |
| ADD DELIVERY INSTRUCTIONS | | | |  |
| NORMAL , CONTACTLESS OUSIDE DOOR , CONTACTLESS AT GATE | | | |  |
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| **User Story No: 20** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** USER | | | | |
| **I WANT TO** TRACK MY ORDER | | | | |
| **SO THAT** I CAN CHECK WHERE MY ORDER IS CURRENTLY REACHED | | | | |
| **BV : 200** | | **CP-2** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| MY ORDER SCREEN PAGE | | | | |
| TRACK ORDER OPTION | | | | |
| ONLINE GPS TRACKING SYSTEM SHOWING CURRENT LOCATION OF DELIVERY BOY | | | | |

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| **User Story No: 21** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** USER | | | | |
| **I WANT TO** GET NOTIFICATIONS OF ORDER UPDATES | | | | |
| **SO THAT** I WILL BE UPDATED ABOUT MY ORDER | | | | |
| **BV : 200** | | **CP-2** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| NOTIFICATION ON SCREEN - ORDER ACCEPTED BY RESTAURANTS, ORDER PICKED BY DELIVERY | | | | |
| BOY, ORDER IS ON THE WAY, ORDER REACHED AT YOUR PLACED, ORDE DELIVERED. | | | | |
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| **User Story No: 22** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** USER | | | | |
| **I WANT TO** GIVE RATING AND FEEDBACK OF ORDER | | | | |
| **SO THAT** RESTAURANT AND DELIVERY BOY WILL GET FEEDBACK ABOUT THEIR SERVICE AND QUALITY | | | | |
| **BV : 100** | | **CP-1** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| MY ORDEDRS SCREEN | | | | |
| SELECT ORDER | | | | |
| OPTIONS FOR RATING STAR | | | | |
| OPTIONS FOR FEEDBACK TO RESTAURANTS - FOOD QUALITY , FOOD QUANTITY, FOOD PACKAGING | | | | |
| OPTIONS FOR FEEDBACK TO DELIVERY BOY - DELIVERY IN TIME , WELL BEHAVED | | | | |
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| **User Story No: 23** | **Tasks: 2** | |  | **Priority: HIGHEST** |
| **AS A** USER | | | |  |
| **I WANT TO** CHAT WITH REGIONAL ADMIN TO RAISE AN ISSUE | | | |  |
| **SO THAT** MY ISSUE WILL GET ADDRESSED AND RESOLVED | | | |  |
| **BV : 100** | |  | | **CP-1** |
| **ACCEPTANCE CRITERIA** | | | |  |
| OTION TO RAISE AN ISSUE | | | |  |
| CHAT SCREEN | | | |  |
| SELECT OREDR IS ISSUE IS REGARDING ANY SPECIFIC ORDER | | | |  |
| GET COMPLAIT ID AFTER ISSUE RAISED | | | |  |

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| **User Story No: 23** | **Tasks: 2** | |  | | **Priority: HIGHEST** |
| **AS A** USER | | | | |  |
| **I WANT TO** APPLY COUPON CODE WHILE MAKING PAYMENT | | | | |  |
| **SO THAT** I WILL GET DISCOUNT ON MY PAYMENT | | | | |  |
| **BV : 100** | |  | | | **CP-1** |
| **ACCEPTANCE CRITERIA** | | | | |  |
| APPLY COUPON ON PAYMENT SCREEN | | | | |  |
| VIEW AVAILABLE COUPON OFFERS | | | | |  |
| SELECT COUPON | | | | |  |
| REVISE THE FINAL BILLING AFTER APPLYING COUPON DOSCOUNT | | | | |  |
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| **BUSINESS RULE** : CHECK COUPON VALIDITY AND ELIGIBILITY | | | | |  |
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| **User Story No: 24** | **Tasks: 2** | | **Priority: HIGHEST** | | |
| **AS A** RESTAURANT OWNER | | | | | |
| **I WANT TO** ACCEPT ORDER | | | | | |
| **SO THAT** I WILL PROCESS THE ORDER | | | | | |
| **BV : 200** | | **CP-2** | | | |
| **ACCEPTANCE CRITERIA** | | | | | |
| CLICK ON ORDERS | | | | | |
| SELECT OREDR AND ACCEPT | | | | | |
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| **BUSINESS RULE** : NOTIFICATION WILL BE SENT TO NEAREST DELIVERY BOY | | | | | |
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| **User Story No: 25** | **Tasks: 2** | |  | **Priority: HIGHEST** | |
| **AS A** RESTAURANT OWNER | | | |  | |
| **I WANT TO** VERIFY DELIVERY BOY FOR HANDING OVER THE ORDER | | | |  | |
| **SO THAT** CORRECT DELIEVERY BOY WILL DELIVER THE ORDER | | | |  | |
| **BV : 200** | |  | | **CP-2** | |

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| **ACCEPTANCE CRITERIA** | | | | |
| AFTER COMPLETION OF ORDER, UPDATE READY TO DISPTACH | | | | |
| GENERATE VERIFICATION CODE | | | | |
| MATCH CODE WITH DELIVERY BOY'S CODE | | | | |
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| **User Story No: 26** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** RESTAURANT OWNER | | | | |
| **I WANT TO** RAISE PAYMENT REQUEST | | | | |
| **SO THAT** I CAN GET MY PAYMENT FROM COMPANY | | | | |
| **BV : 200** | | **CP-2** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| SELECT DATE | | | | |
| SELECT ALL ORDERS, GENERATE BILL | | | | |
| RAISE PAYMENT REQUEST | | | | |
| NOTIFICATION MAIL TO RESTAURANTS, ADMIN , REGIONAL ADMIN AND BUSINESS OWNER | | | | |
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| **User Story No: 27** | **Tasks: 2** | |  | **Priority: HIGHEST** |
| **AS A** RESTAURANT OWNER | | | |  |
| **I WANT TO** VIEW FEEDBACK | | | |  |
| **SO THAT** I CAN CHECK AND IMPROVE THE SERVICE AND QUALITY | | | |  |
| **BV : 100** | |  | | **CP-1** |
| **ACCEPTANCE CRITERIA** | | | |  |
| VIEW FEEDBACK | | | |  |
| SELECT DATE | | | |  |
| VIEW FEEDBACK ORDER WISE | | | |  |
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| **User Story No: 28** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** RESTAURANT OWNER | | | | |
| **I WANT TO** RAISE AN ISSSUE | | | | |
| **SO THAT** I CAN GET MY ISSUE RESOLVED BY ADMIN OR BUSINESS OWNER | | | | |
| **BV : 100** | | **CP-1** | | |
| **ACCEPTANCE CRITERIA** | | | | |

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| CLICK ON RAISE AN ISSUE | | | |
| SELECT SUITABLE CATEGORY - APP ISSUE, DELIEVRY BOY SERVICE , HOTEL TIME SLOTS ETC | | | |
| TEXT BOX TO ENTER THE ISSUE IN DETAILS | | | |
| GET AN ACKNOWLEDGMENT NUMBER FOR FUTURE REFERENCE | | | |
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| **User Story No: 29** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS A** RESTAURANT OWNER | | | |
| **I WANT TO** CHECK REPORT OF REVENUE GENERATED THROUGH SCRUM FOOD | | | |
| **SO THAT** I CAN GET REVENUE GENERATED THROUGH SCRUM FOOD | | | |
| **BV : 200** | | **CP-3** | |
| **ACCEPTANCE CRITERIA** | | | |
| SELECT REPORT | | | |
| SELECT REVENUE REPORT | | | |
| SELECT RANGE OF DATE | | | |
| SUBMIT AND DOWNLOAD REPORT IN PDF OR EXCEL | | | |
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| **User Story No: 30** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS A** RESTAURANT OWNER | | | |
| **I WANT TO** REGISTER SCRUM FOOD | | | |
| **SO THAT** I CAN PROCESS ONLINE FOOD REQUEST | | | |
| **BV : 200** | | **CP-2** | |
| **ACCEPTANCE CRITERIA** | | | |
| REGISTRATION SCREEN | | | |
| TEXT FIELDS FOR RESTAURANT NAME , ADDRESS, OWNER NAME , MOBILE , EMAIL ID | | | |
| UPLOAD MENU CARD | | | |
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| **BUSINESS RULE** - REGISTRATION WILL SENT TO ADMIN FOR APPROVAL | | | |
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| **User Story No: 31** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS A** REGIONAL ADMIN | | |  |
| **I WANT TO** CHECK CUSTOMER FEEDBACK | | |  |
| **SO THAT** I CAN MONITOR CUSTOMER SERVICE QUALITY | | |  |
| **BV : 200** | |  | **CP-2** |
| **ACCEPTANCE CRITERIA** | | |  |

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| VIEW AND SELECT RESTAURANTS | | | | |
| VIEW CUSTOMER FEEDBACK | | | | |
| ADD COMMENT | | | | |
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| **User Story No: 32** | **Tasks: 2** | |  | **Priority: HIGHEST** |
| **AS A** REGIONAL ADMIN | | | |  |
| **I WANT TO** CHECK DELIVERY BOYS PRESENT ON DUTY | | | |  |
| **SO THAT** I CAN MONITOR DELIVERY BOYS ON DUTY AREA WISE | | | |  |
| **BV : 200** | |  | | **CP-3** |
| **ACCEPTANCE CRITERIA** | | | |  |
| VIEW DELIVERY BOYS | | | |  |
| APPLY FILTER OF ON DUTY , THEIR WORKING HOURS , AREA | | | |  |
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| **User Story No: 33** | **Tasks: 2** | |  | **Priority: HIGHEST** |
| **AS A** REGIONAL ADMIN | | | |  |
| **I WANT TO** CHECK RESTAURANTS | | | |  |
| **SO THAT** I CAN MONITOR RESTAURANTS SERVING TODAY AREAWISE | | | |  |
| **BV : 200** | |  | | **CP-3** |
| **ACCEPTANCE CRITERIA** | | | |  |
| VIEW RESTAURANTS | | | |  |
| APPLY FILTER OF SERVING TODAY , THEIR WORKING HOURS , AREA | | | |  |
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| **User Story No: 34** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** REGIONAL ADMIN | | | | |
| **I WANT TO** CHECK ISSUES RAISED BY RESTAURANTS , DELIVERY BOYS | | | | |
| **SO THAT** I CAN CHECK AND PROVIDE SUITABLE SOLUTIONS ON ISSUES | | | | |
| **BV : 200** | | **CP-3** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| CLICK ON ISSSUES | | | | |
| VIEW ISSUES | | | | |
| ADD COMMENT IN TEXT BOX | | | | |

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| CLOSED RESOLVED | | | | |
| OR ASSSIGN TO ADMIN OR BUSINESS OWNER IF REQUIRED AND UPDATE NEXT DATE OF RESOLUTION | | | | |
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| **User Story No: 35** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** REGIONAL ADMIN | | | | |
| **I WANT TO** PROCESS REFUND REQUEST | | | | |
| **SO THAT** I CAN PROVIDE REFUND OF CANCELED ORDER TO CUSTOMER | | | | |
| **BV : 200** | | **CP-3** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| VIEW REFUND REQUEST | | | | |
| VIEW ORDER | | | | |
| CHECK ORDERED TIME AND CANCELLATION TIME | | | | |
| CLICK ON RECOMMEND REFUND TO ADMIN | | | | |
| INTIMATION MAIL ALERT TO RESTAURANT, ADMIN AND BUSINESS OWNER | | | | |
|  | | | | |
| **User Story No: 36** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** REGIONAL ADMIN | | | | |
| **I WANT TO** VIEW PAYMENT MADE TO REGIONAL RESTAURANTS | | | | |
| **SO THAT** I CAN CHECK THE PAYMENTS TO RESTAURANTS AS PER TEIR BILLING | | | | |
| **BV : 200** | | **CP-3** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| VIEW PAYMENTS | | | | |
| SELECT REGION | | | | |
| SELECT DATE RANGE | | | | |
| SELECT RESTURANTS | | | | |
| DOWNLOAD REPORT IN EXCEL OR PDF. | | | | |
|  | | | | |
| **User Story No: 37** | **Tasks: 2** | |  | **Priority: HIGHEST** |
| **AS A** ADMIN | | | |  |
| **I WANT TO** VIEW ISSUES RAISED BY REGIONAL ADMIN, RESTURANTS | | | |  |
| **SO THAT** I CAN PROVIDE RESOLUTION TO ISSUES | | | |  |
| **BV : 200** | |  | | **CP-3** |
| **ACCEPTANCE CRITERIA** | | | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| VIEW ISSUES | | | | |
| APPLY FILTER UNRESOLVED, RESTURANTWIESE, REGIONAL ADMIN WISE, CUSTOMER WISE | | | | |
| ADD COMMENT IN TEXTBOX | | | | |
| PROVIDE SOLUTION IN COMMENT AND CLOSED RESOLVED THE ISSUE | | | | |
|  | | | | |
| **User Story No: 38** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** ADMIN | | | | |
| **I WANT TO** APPROVE RESTAURANTS AND DELIVERY BOY REGISTRATION | | | | |
| **SO THAT** RESTAURANTS AND DELIVERY BOYS WILL START SERVICING | | | | |
| **BV : 200** | | **CP-2** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| GET NOTIFICATION OF REGISTRATION REQUESST RAISED | | | | |
| VIEW APPROVAL REQQUEST | | | | |
| CHECK DETAILS | | | | |
| ADD COMMENT IN TEXT BOX | | | | |
| APPROVE OR REJECT BUTTON FOR DECISION | | | | |
| **User Story No: 39** | **Tasks: 2** | |  | **Priority: HIGHEST** |
| **AS A** BUSINESS OWNER | | | |  |
| **I WANT TO** VIEW REVENUE REPORT | | | |  |
| **SO THAT** I CAN CHECK REVENUE GENERETAED FROM RESTURANTS | | | |  |
| **BV : 500** | |  | | **CP-3** |
| **ACCEPTANCE CRITERIA** | | | |  |
| CLICK ON VIEW REPORT | | | |  |
| OPTION TO APPLY FILTER OF REGION, RESTAURANTS | | | |  |
| SELECT DATE RANGE | | | |  |
| DOWNLOAD REPORT IN PDF OR EXCEL | | | |  |
|  | | | |  |
| **User Story No: 40** | **Tasks: 2** | | **Priority: HIGHEST** | |
| **AS A** BUSINESS OWNER | | | | |
| **I WANT TO** UPDATE PAYMENT | | | | |
| **SO THAT** RESTAURANTS AND DELIVERY BOY'S PAYMENT WILL BE RELEASED | | | | |
| **BV : 500** | | **CP-3** | | |
| **ACCEPTANCE CRITERIA** | | | | |
| VIEW PAYMENT REQUEST RAISED BY RESTRANTS AND ADMIN | | | | |
| APPLY FILTER REGION WISE, RESTAURANTS WISE | | | | |
| CHECK TOTAL BILLING, COMMISSION , REFUNDS, DISCOUNTS ETC | | | | |
| CHECK TOTAL MANHOURS, TOTAL DELIVERIES, ETC | | | | |
| APPROVE AND UPDATE THE PAYMENTS | | | | |

# Question 3– What is epic? Write 2 epics – 5 Marks

* Epics are made of multiple user stories.
* Epic often defines complete workflow for a user
* Epic needs to be broken down into many smaller stories before the development team could work on it.
* The stories that consist of epic may be completed independently but these do not have a business value until the whole epic is complete.

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| **EPIC No: 1** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS A** CUSTOMER | | | |
| **I WANT** TO MAKE PAYMENT | | | |
| **SO THAT** I CAN ORDER MY FOOD | | | |
| **BV : 500** | | **CP- 3** | |
| **USER STORY 1:** | | | |
| **AS A** CUSTOMER | | | |
| **I WANT** TO VIEW CART | | | |
| **SO THAT** I CAN CHOSE AND PROCEED FOR CHECKOUT FOR PAYMENT | | | |
|  | | | |
| **USER STORY 2:** | | | |
| **AS A** CUSTOMER | | | |
| **I WANT** TO VIEW FINAL BILL IN CART | | | |
| **SO THAT** I CAN PROCEED FOR PAYMENT | | | |
|  | | | |
| **USER STORY 3:** | | | |
| **AS A** CUSTOMER | | | |
| **I WANT** TO SELECT PAYMENT MODE | | | |
| **SO THAT** I CAN CHOOSE CORRECT MODE AND PROCEED FOR PAYMENT | | | |
|  | | | |
| **USER STORY 4:** | | | |
| **AS A** CUSTOMER | | | |
| **I WANT** TO ENTER CARD DETAILS | | | |
| **SO THAT** I CAN MAKE CARD PAYMENT TO ORDER MY FOOD | | | |
|  | | | |
|  | | | |
| **EPIC No:2** | **Tasks: 2** | | **Priority: HIGHEST** |
| **AS A** CUSTOMER | | |  |
| **I WANT** TO SEARCH FOR FOOD | | |  |
| **SO THAT** I CAN ORDER MY FOOD | | |  |
| **BV : 500** | |  | **CP- 3** |
| **USER STORY 1:** | | |  |
| **AS A** CUSTOMER | | |  |
| **I WANT** TO SERACH FOOD ITEMS AVAILABLE TODAY | | |  |
| **SO THAT** I CAN ORDER MY FOOD | | |  |
|  | | |  |
| **USER STORY 2:** | | |  |
| **AS A** CUSTOMER | | |  |
| **I WANT** TO SEARCH NEARBY HOTEL | | |  |
| **SO THAT** I CAN ORDER MY FOOD | | |  |
|  | | |  |
| **USER STORY 3:** | | |  |
| **AS A** CUSTOMER | | |  |
| **I WANT** TO APPLY FILTERS ON MY SEARCH | | |  |
| **SO THAT** I CAN ORDER MY FOOD | | |  |
|  | | |  |
| **USER STORY 4:** | | |  |
| **AS A** CUSTOMER | | |  |
| **I WANT** TO VIEW MY LAST ORDERS | | |  |
| **SO THAT** I CAN REPEAT THE SAME ORDER | | |  |
|  | | | |
|  | | | |

# Question 4 –What is the difference between BV and CP – 2 Marks

**Business Value:**

● Business Value indicates User Story importance from the customer's point of view. The most valuable User Stories should be implemented as early as possible in the development process.Business value means calculate the product backlog. The Scrum Team very frequently delivers ‘value’. The product owner- who is part of the Scrum team – is responsible for maximizing the (business) value that a Development team delivers during the sprints.

**Complexity Point:** Used to measure the effort required to implement a story. They use this before the sprint starts to indicate and figure out how big or small a given feature is or how hard the story is. Hard could be related to complexity, Unknowns and efforts.

**Complexity = Amount of Work + Degree of Risk + Level of Uncertainty.** This Complexity being the benchmark for estimating story points

Story point estimation includes three main components:

* Risk: The risk of a particular project or item includes vague demands, dependence on a third party, or changes mid-task.
* Complexity: This component is determined by how difficult the feature is to develop.
* Repetition: This component is determined by how familiar the team member is with the feature and how monotonous certain tasks are within development.

# Question 5 –Explain about Sprint– 5 Marks

**What Is a Sprint in Agile?**

Agile projects are broken down into sprints or iterations — short, repeatable phases, typically one to four weeks long. The number and length of the sprints should be determined at the beginning of the project, and each sprint should result in a draft, prototype, or workable version of the final deliverable.Sprints break down a project into bite-sized chunks. Teams plan a single sprint at a time and adapt future sprints based on the outcome of the previous one. While each sprint is planned separately, the number and length of sprints in your project should be determined at the beginning.

[**Sprint**](https://www.workfront.com/project-management/methodologies/scrum/sprint-planning)[**planning**](https://www.workfront.com/project-management/methodologies/scrum/sprint-planning)

Setting up a sprint requires proper [sprint](https://www.workfront.com/project-management/methodologies/scrum/sprint-planning) [planning](https://www.workfront.com/project-management/methodologies/scrum/sprint-planning). The project manager gathers the team to determine how much work can be completed within one sprint. Planning to accomplish too much can lead to team burnout and missed deadlines.

[**Sprint**](https://www.workfront.com/project-management/methodologies/scrum/sprint-reviews)[**review**](https://www.workfront.com/project-management/methodologies/scrum/sprint-reviews)

Once a sprint is completed, the project manager hosts a [sprint](https://www.workfront.com/project-management/methodologies/scrum/sprint-reviews) [review](https://www.workfront.com/project-management/methodologies/scrum/sprint-reviews) [meeting](https://www.workfront.com/project-management/methodologies/scrum/sprint-reviews) with all team members and stakeholders to demonstrate sprint outputs, determine what was accomplished and what wasn’t, and review project forecasts. Untested or incomplete work is not shown, but is instead saved for the next sprint’s planning round.

**Daily Scrum**

Daily Scrum is a fixed time, fixed place event that allows Development Team to synchronize and plan work for the next 24 hours based on the amount of work done since the last Daily Scrum.[[1]](https://en.wikipedia.org/wiki/Scrum_sprint#cite_note-scrumguide-1) During Daily Scrum, Development Team members explain:

* What did I do yesterday that helped towards my Sprint Goal?
* What am I going to do today towards my Sprint Goal?
* What Impediments I see towards accomplishing my Sprint Goal?

Daily Scrum usually lasts for 15 minutes, but can be followed by other meetings for detailed discussions.

**Sprint Backlog**

Sprint Backlog refers to a subset of Product Backlog that is selected for a Sprint along with its delivery plan. Based on the items in the Sprint Backlog, the Development Team decides how they will create a "Done" product.

Question 6 – Explain Product backlog and sprint backlog– 5 Marks

Sprint backlog-A sprint backlog is a list of work items your team plans to complete during a project sprint. These items are usually pulled from the product backlog during the sprint planning session. A clear sprint backlog prevents scope creep by clarifying exactly what your team will be doing—and not doing—during each sprint. From creating one source of information to defining work items, a sprint backlog has many positive effects on team productivity.

When should I use a sprint backlog?

You and your team will create a sprint backlog during your sprint planning meeting. The exact frequency will vary based on how long your sprints are, but you’ll likely be doing this every two weeks or once a month. If you're running the Scrum agile method, the Scrum master—with the help of the Scrum team—chooses product backlog items to tackle that week. If you're running a different form of Agile, this could be done by a product owner or product manager.

What’s included in a sprint backlog?

Your backlog should document specific components like the name of your current sprint, the descriptions and user stories for each initiative, each task’s priority, relevant real time changes, and scheduling details for sprint planning meetings or daily standups—just to name a few. To get you started on a backlog of your own, ensure you include these details:

* User story: A user story is a software feature written from the perspective of the end user. It’s an important piece to include in order to understand the effect each feature has on the end user.
* Task name: While obvious enough, keep your backlog organized by starting each task with a clear, action-oriented name. Ensure each task title starts with a verb—for example, “Design new mobile component for web app” is more descriptive than “New mobile component.” This will help stakeholders quickly understand the backlog and deliverables that each team member is working on.
* Task description: Along with an actionable name, include a brief description of each task. This creates clarity around tasks so stakeholders are aware of upcoming steps.
* Task prioritization: Since there are a number of tasks in a given project, it’s important to prioritize your most important objectives. This ensures you meet deadlines and your sprint stays on track.
* Sprint burndown chart: A burndown chart is a graph that represents the work left to do versus the time it takes to complete it. During a sprint, your team will use these charts to estimate how long each iteration will take.
* Daily time allocation: In order to track your time estimates against the actual time on your burndown chart, you need to track daily time allocations. Analyze how long each task takes in minutes or hours. At the end of the week, total up your weekly time allocations for each task to complete your burndown chart.

While each sprint backlog will differ slightly, these are all important details to include when starting your own backlog.

# **Product backlog**

A product backlog is an ordered list of tasks, features, or items to be completed as part of a larger product roadmap. With an effective product backlog, you can assign developers daily, weekly, or monthly tasks that target your end goals and help you build a better product. Learn how to create a product backlog, plus tips on how to prioritize the items in your backlog.

## Who uses product backlogs

While any developer can use a product backlog, they’re most often used by Agile teams. In Agile projects, the teams dedicate their time to product creation and make adjustments as their project progresses. Because of the flexibility of the Agile methodology, tasks on the product backlog aren’t set in stone, and you’re not expected to complete every one of them. Plus, Agile teams will regularly undergo product backlog refinement to re-prioritize tasks as needed.

**What’s in a product backlog?**

A product backlog commonly includes features, bug fixes, technical debts, and knowledge acquisition. These product backlog items are distinct pieces of work that have yet to be delivered for a product.

### 1. Features (user stories)

A feature, also known as a user story, is a function of the product that the product user finds valuable. Features can be complex—often referred to as epics—or they can be simple. Creating a story map can help your team determine what the user needs most.

### 2. Bug fixes

Bug fixes are self-explanatory, and your Scrum team should address these quickly to uphold the integrity of the product. Some bugs may be important enough to interrupt your team’s current sprint, while others can wait for the next sprint. An overall rule with bugs, however, is to keep them at the top of your product backlog so your team doesn’t forget about them.

### 3. Technical debts

Technical debt, like financial debt, “accrues interest” when ignored. When developers push technical work to the bottom of the product backlog, it builds up and becomes harder to accomplish. Effective backlog management can prevent the buildup of technical debt. When your team stays organized and takes on technical work in smaller, daily increments, you’re less likely to accrue interest on a huge piece of work.

### 4. Knowledge acquisition

In knowledge acquisition, you gather information to accomplish future tasks. Essentially, this is a research stage. When you identify a feature that needs more research, you create a knowledge acquisition task such as a prototype, experiment, or proof-of-concept to get the information you need to work on the feature.

Question 7 – What is impediments log? write 2 impediments – 5 Marks

### **Impediment log**

Impediments are barricades, hurdles or obstacles and these are recorded in Impediment Logs. In terms of Scrum, they are “blockers” that prevent the Scrum Team from completing work, which in return impacts velocity. Anything that prohibits the team from doing work is considered an impediment and should be included within impediment logs.

* Impediments that are identified daily are generally very small and can be quickly resolved. This may include sending a simplifying email and/or getting assistance from a Scrum Team member.
* The bigger impediments are most likely to be identified during the

Retrospective meetings and require a level of dedication to be removed.

These types of impediments are added to the Sprints for resolution.

* Impediments that are identified by the team are added to the Product Backlog for prioritization and processing. Large items that are not able to be addressed quickly are addressed in later Sprints.
* Organizational impediments added to the Impediments Log are prioritized and addressed on an ongoing basis. Both team and organizational impediments are reviewed after each Sprint in the Retrospective meeting.

Types of impediment log-There are two main types of impediments, **organizational** and **team** related and they need different types of handling.

* **Team Impediments –** issues that the team can solve without needing external assistance. However, the team may need internal assistance from management.
* **Organizational Impediments –** issues that are dependent on others to solve.
* It is scrum master’s responsibility to identify and resolve these impediments such as
  + Resources issues
  + Technical issues
  + Tool Issues
  + Management issues
  + Power failure / Network Failure / Infrastructure issues.

1. Example -1.Unforeseen and undesired changes in team composition.

2.Due to covid lockdown, resources were not able to come to the office. Need to manage the maximum work through “Work from Home”

Question 8 – Explain Velocity of the Team – 1 Marks

Velocity is a measure of the amount of work a team can tackle during a single sprint and is the key metric in scrum. Velocity is calculated at the end of the sprint by totaling the points for all fully completed User Stories.

How to calculate Velocity - By dividing the total number of estimated story points by the number of sprints.

For example – if the development team estimates a total of 160 story points over four sprints , the team’s expected velocity would be 40 points per sprint.

Question 9 – Draw Sprint Burn Charts n Product Burn Down Charts– 3 Marks

Sprint Down Chart:

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[Sprin](https://staragile.com/blog/sprint-burndown-chart)

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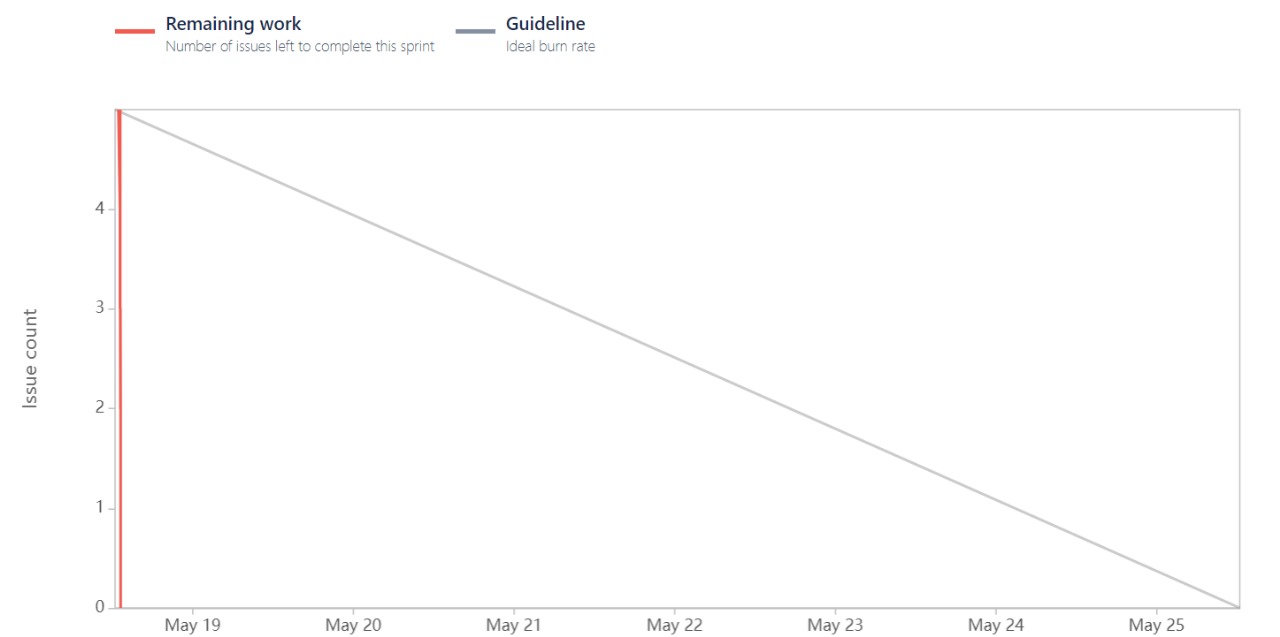
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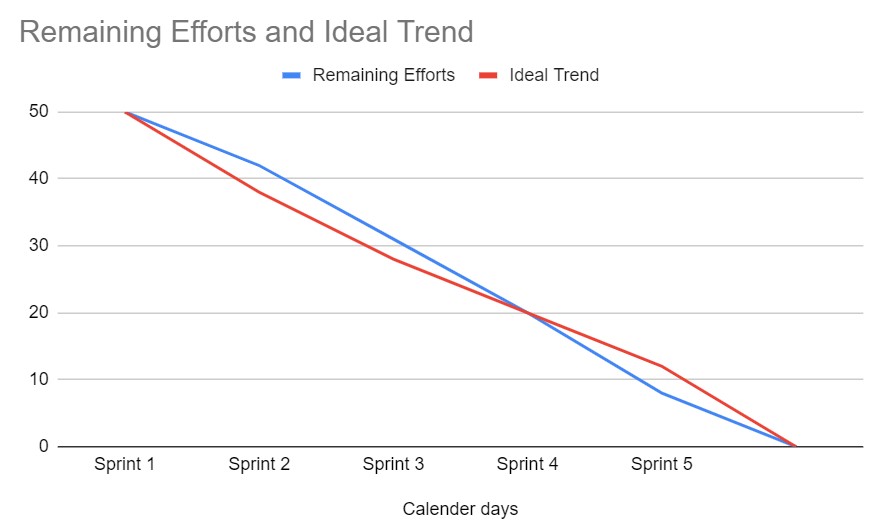
sprint

ends.



Product Burndown Chart

|  |
| --- |
| The product burndown chart is the chart that is plotted with the story points of all the user |
| stories in the y-axis and the sprint numbers on the x-axis. It provides the product backlog |
| visualization of completed requirements over time. The product burndown chart is updated at |
| the end of each sprint and new user stories are added before the sprint planning meeting. The |
| user stories can be added and removed in the sprint can be depicted in the chart. |
| The product burndown chart tells us 2 things, how many user stories can be completed in the |
| remaining time and how many sprints are required to complete all the remaining user stories. |



Question 10 – Explain about Product Grooming – 2 Marks

Backlog grooming is a regular session where backlog items are discussed, reviewed, and prioritized by product managers, product owners, and the rest of the team. The primary goal of backlog grooming is to keep the backlog up-to-date and ensure that backlog items are prepared for upcoming sprints. Additionally, the process helps product managers explain and align the organization behind the strategy that informs the backlog items.

Backlog grooming, referred to also as backlog management, backlog refinement, pre-planning, or story time, is a widely adopted activity by Scrum and agile product teams. The most common

tactical activities that occur during backlog management include:

■ Removing outdated user stories and tasks.

■ Adding new user stories that reflect newly discovered user insights.

■ Breaking down broad user stories into smaller items.

■ Reordering user stories based on their priority.

■ Explaining and clearly defining user stories and tasks to avoid uncertainty and “black

box” communication.

■ Assigning or re-assigning story points and estimates.

■ Identifying roadblocks and minimizing risks related to backlog items.

Question 11 – Explain the roles of Scrum Master and Product Owner – 3 Marks

**Who is a Scrum Master?**

“The [Scrum](https://www.knowledgehut.com/agile-management/csm-certification-training) [Master](https://www.knowledgehut.com/agile-management/csm-certification-training) is accountable for establishing Scrum as defined in the Scrum Guide. They do this by helping everyone understand Scrum theory and practice, both within the Scrum Team and the organization. The Scrum Master is accountable for the Scrum Team’s effectiveness. They do this by enabling the Scrum Team to improve its practices, within the Scrum framework.”

**Who is a Product Owner?**

“The [Product](https://www.knowledgehut.com/agile-management/cspo-certification-training) [Owner](https://www.knowledgehut.com/agile-management/cspo-certification-training) is accountable for maximizing the value of the product resulting from the work of the Scrum Team. The Product Owner is one person, not a committee. The Product Owner may represent the needs of many stakeholders in the Product Backlog. Those wanting to change the Product Backlog can do so by trying to convince the Product Owner”

## Role of a Scrum Master –

1. As a servant leader, the primary responsibility of the Scrum Master is to help the development team perform. This includes removing obstacles that may impede the team from performing
2. A Scrum Master is well versed with Scrum processes and tools. It’s the Scrum Master’s primary responsibility to ensure that the team adheres to Scrum processes during the development of the product.
3. The daily stand-up meetings are an essential part of Scrum. The Scrum Master facilitates these meetings and ensures that all issues are addressed and the team is able to perform towards reaching its sprint goal.
4. The development team develops the product, and a happy team means a well-built product and satisfied customers. The team must be allowed to work in an environment that is free of distractions and conducive to innovation and research. The Scrum Master makes sure that such an environment is provided to the team.
5. The Scrum Master aids the development team and the Product Owner with effective product backlog management. This they do by facilitating Scrum events, product planning and by helping the team to identify backlog items.
6. The Scrum Master has a greater responsibility than that of leading the team, and that is the promotion of Scrum and transformation of the entire organization. This they do by coaching and helping teams and departments understand Scrum and develop an Agile mind-set.

Role of Product Owner:

* 1 The Product Owner’s main task is to define the vision of the product to the development team. This involves helping them understand the reason for the product being built, its usefulness for the clients and stakeholders, how it can evolve in the future and what it is expected to achieve. Giving the development team a correct vision of the product will help them work better.
* As the go-between the development team and the customers, it is the Product Owner’s responsibility to get each party what they need to be happy.

In the development team’s case, the product owner has to ensure that they have understood without any ambiguity what needs to be built and with respect to the stakeholders, the product owner has to ensure that they get the product that they have asked for.

At the same time, the product owner must maintain a correct balance between the two and ensure that there is complete transparency and there is no over commitment on requirements to either side.

* This includes meeting stakeholders, development team and all those who wish to discuss the product roadmap. These discussions could range from current product backlog items to future releases to any technical information the stakeholder may need.
* The Product Owner maximizes product value by identifying what items in the product backlog need to be tackled first.

Continuous prioritization and ordering of product backlog is an important responsibility of the product owner to ensure that high priority work gets into production first for release.

* Creating and updating the backlog is a major part of the product owner’s responsibility. They have to sequence, prioritize and ensure that the development time is not wasting time or resources in doing the wrong tasks.

Updating the product backlog is an on-going responsibility of the Product Owner.

* You may be working with a team that is new to Scrum or stakeholders who are not aware of Scrum processes.

As a Product Owner you will be expected to help your team understand about the Scrum processes that will be followed during every stage of product development while also helping the stakeholders understand how Scrum is being used to develop the product.

Question 12 – Explain all Meetings Conducted in Scrum Project – 8 Marks

Scrum meeting is a catch-all term that can describe different types of meetings held by Scrum teams. Scrum meetings include daily standups, sprint planning sessions, and sprint retrospectives

Who Attends a Scrum Meeting?

Most Scrum meetings, including the ones we will discuss below, should include the entire Scrum team. For most companies, the team includes the following roles:

* [**Scrum**](https://www.productplan.com/glossary/scrum-master/)[**master**](https://www.productplan.com/glossary/scrum-master/)(the team’s facilitator and point person)
* [**Product**](https://www.productplan.com/glossary/product-owner/)[**owner**](https://www.productplan.com/glossary/product-owner/) (the project management lead for the agile team)
* **Development team**

**Meetings :**

1. **Sprint Planning Meeting**- This happens at the beginning of each sprint and team decides what they will be delivering in the sprint
2. **Daily scrum meeting** – This happens each day, where team will answer 3 questions (i) What did you do today?
   * 1. What will you do tomorrow?
     2. Are there any impediments that are slowing or stopping you?
3. **Sprint Review meeting**- This happens at the end of the sprint where the team will give the completed stories to the product owner and get it cleared.
4. **Sprint Retrospective meeting** – This happens at the end of the sprint where the team will answer 3 questions: (i) What went well in the Sprint?

Here are a few benefits of each Scrum meeting we discussed above.

Daily Scrum:

* + It helps the team identify obstacles so they can solve them quickly
  + Allows the team to make minor course corrections frequently, so they don’t spend too much time going down the wrong path

Sprint Planning:

* + Enable the team to align on sprint priorities before the sprint begins
  + It gives everyone on the team an understanding of their responsibilities in the next sprint Question 13 – Explain Sprint Size and Scrum Size– 2 Marks

## Sprint Size –

Scrum is a framework often used in Agile methodology, and a Sprint is part of Scrum's framework structure. Scrum gives meetings, tools, and roles, while a Sprint is a defined period for creating a feature.

An Agile sprint is a concept in scrum that represents a time box, i.e., a short amount of time the team has committed to complete the work. And how long is a sprint in Agile? Sprints in scrum can be as long as you want; however, it's most common for sprint length to be between 1 and 4 weeks

Scrum Team size-

There are three major roles that play a part in the Scrum team: [Product](https://www.mendix.com/blog/how-to-be-an-effective-product-owner/) [owner](https://www.mendix.com/blog/how-to-be-an-effective-product-owner/), [scrum master](https://www.mendix.com/blog/scrum-hero-driving-digital-innovation-company/), and developers. Stakeholders and the business are also involved at varying degrees with most Agile projects. In larger enterprises, there are usually several business team members involved in the development process.

A Scrum team should consist of less than 9 people. For large enterprise projects, the ideal Scrum team size is 7 people (product owner, scrum master, and 5 developers). Smaller projects typically consist of four team members (product owner, scrum master, and 2 developers).

### Question 14 - Explain DOR and DOD – 2 Marks

**The definition of done** is orthogonal to user acceptance criteria (functional acceptance) for a feature. It is a comprehensive checklist of necessary, value-added activities that assert the quality of a feature and not the functionality of that feature. Definition of done is informed by reality where it captures activities that can be realistically committed by the team to be completed at each level (feature, sprint, release).

#### **DoR = Definition of Ready**

The DoR is the little cousin of the DoD. It is a checklist of what needs to be done to a product backlog item **before the team can start implementing it** in the next sprint. You can view the definition of ready as the “DoD” the Product Owner has to fulfill so that the Development Team accepts the story in the Sprint Planning meeting.

Question 15 – Explain Prioritization Techniques and MVP – 3 Marks

Prioritization techniques are used for queuing the requirements for the development process.

Factors that influence – Importance , risk, cost, benefit, time, and strategy.

3 main actors in these techniques are – Customers , Developers , Business owners.

Below are few techniques:

**1 . MoSCoW:** is a prioritization technique used in business and software development to reach a common understanding with stakeholders on the importance they place on the delivery of each requirement.

MoSCoW stands for must, should , could , ad would:

M – Must have these requirements to meet the business needs.

S – Should have these requirements if possible , but project success does not rely on it.

C – Could have these requirements if it does not affect anything else in the project. W- Would like to have this requirement later, but it won’t be delivered this time.

1. **. Priority Poker**

This agile priority technique is based on similar rules as actual poker played with cards. When playing poker, prioritization is done in a calculative manner, with big wins being the ultimate goal. Similarly, in agile priority poker, items that will yield the highest results in specific target markets are given priority.

How are high priority items determined? Well, the project manager gathers all stakeholders of the project, which can also sometimes include end-users. The stakeholders are then asked to assign priority to each task or feature that is scheduled. The answers and then moderated and the list of priorities are compiled based on the rankings of the stakeholders.

**MVP -** A minimum viable product, or MVP, is **a product with enough features to attract early-adopter customers and validate a product idea early in the product development cycle**. In industries such as software, the MVP can help the product team receive user feedback as quickly as possible to iterate and improve the product.

Question 16 – Difference between Business Analyst and Product Owner – 3 Marks

The two key pillars for a successful Agile project are the Product Owner (PO) and the Business Analyst.

The Product Owner works almost like the director of a movie, envisioning the macro and micro-level details for the product. At the same time, the Business Analyst ensures smooth execution of the sprint and manages the epics and stories' details.

#### ***1. Product Owner***

The [Product](https://www.iiba.org/career-resources/business-analysis-specialization/product-ownership-analysis/) [Owner](https://www.iiba.org/career-resources/business-analysis-specialization/product-ownership-analysis/) has a vision of the product keeping the domain/industry experience and the market need. Their job is to ensure that the product meets the market and stakeholder needs; they conduct market analysis followed by an enterprise SWOT analysis to come up with the product vision.

The PO also works on the go-to-market strategy for the product. The PO tries to leverage their experience in the domain, need of the market, the industry or the domain, the organization's market position, and the customer expectation of the product. Critical Responsibilities for Product Owner

Business Analyst (BA):

Requirements Gathering: BAs are primarily responsible for eliciting, analyzing, and documenting requirements from stakeholders. They work closely with stakeholders to understand their needs, objectives, and pain points, and translate them into actionable requirements.

Analysis and Documentation: BAs conduct thorough analysis of business processes, systems, and data to identify gaps, opportunities, and potential solutions. They document requirements in various forms such as user stories, use cases, process flows, and functional specifications.

Facilitation and Communication: BAs facilitate communication and collaboration between stakeholders, development teams, and other project stakeholders. They act as intermediaries, ensuring that requirements are clearly understood and implemented effectively.

Problem-Solving: BAs often engage in problem-solving activities to address complex business challenges, identify root causes of issues, and propose solutions that align with business goals and objectives.

Quality Assurance: BAs may be involved in quality assurance activities such as user acceptance testing (UAT), where they validate that the implemented solution meets the defined requirements and satisfies stakeholder needs.

Product Owner (PO):

Vision and Strategy: POs are responsible for defining and communicating the product vision, strategy, and roadmap. They articulate the long-term goals and direction of the product, ensuring alignment with business objectives and customer needs.

Prioritization and Backlog Management: POs prioritize the product backlog based on business value, stakeholder feedback, and market trends. They make decisions about what features or functionalities to build next and ensure that the development team is working on the most valuable items.

Feature Definition and Acceptance: POs work closely with stakeholders and development teams to define features and user stories. They provide clear acceptance criteria and acceptance testing guidelines to ensure that the implemented features meet the desired outcomes and quality standards.

Stakeholder Management: POs act as the primary liaison between stakeholders and the development team, representing the voice of the customer and advocating for their needs. They gather feedback, address concerns, and manage expectations throughout the development process.

Release Planning and Delivery: POs oversee the release planning process, determining the scope and timing of product releases. They collaborate with development teams to ensure that releases are delivered on time and meet the needs of customers and stakeholders.

Question 17 – Prepare a sample Resume of 3yrs exp Product Owner – 3 Marks **Agile Product Owner**

Axis Securities

Jan 2017 – Current / Mumbai

Acted as the liaison between product, operations, and sales teams to understand customer demand for new features and prioritize the product roadmap.

* Owned the product roadmap and met all features deadlines by identifying and mitigating any engineering roadblocks.
* Developed 3 different user stories for new online trading products leading to focused marketing strategy and increased screen time by 30%.
* Arranged open communication between executive stakeholders , engineering , and marketing ,resulting in a speed improvement of the feature development life cycle. ● Lead a team of 1 full time employee and 3 contractors

**Key achievement:**

* Effectively negotiated sprint goals with the team, which resulted in slashing delivery time by 20% in a single quarter.

**Key Skills**

* Conceptual skills
* User-centered design processes
* Design quality standards
* Service and product design methodologies
* Agile and Scrum
* Conducting design sprints
* User validation
* Analytical skills
* Collaboration and teamwork ● Communication

**Education**

2017- MBA(Finance)- ITM Business School Mumbai

2015 Graduation- BBA(H)– West Bengal University

2012 HSC – Science – from Kalyani Public School, Mumbai

2010 SSC – From Kendriya Vidyalaya Mumbai,

**IT Skills**

● Well versed with o Software Development Life Cycle.

o CRM o TWS

**Personal Details**

Date of Birth : 18th Sept, 1993

Present Address : RA215 & 216 Milan Nagar Salt Lake Sec 4, Mumbai 700105

Marital Status : Single

Language Known : English, Hindi, Marathi