**Capstone Project 2 –Agile-Scrum Answers**

**Question 1– write Agile Manifesto**

**Answer:**

**Agile**: Agile is light weight and can be implemented where faster delivery is required.

Agile no documentation is required

Customer retention since no documentation

Agile does not support scalability and extendibility

**Four Main values of agile.**

1. Individuals and interactions over processed and tools
2. Working software over comprehensive documentation
3. Customer colaboration over contract negotiation
4. Responding to change over following a plan

**Twelve principles of Agile Software**

1. Satisfy the customer through early and continous delivery of valuable software.

2. Welcome changing requirements, even late in development. Agile processes harness change for the customer’s competitive advantage.

3. Deliver working software frequently, from a couple of weeks to a couple omonths, with a preference to the shorter timescale.

4. Business people and developers must work together daily throughout the project.

5. Build projects around the motivated individuals. Give them the environment and support they need and trust them to get the job done.

6. The most efficient and effective method of conveying information to and within a development team is face to face conversation.

7. Working software is primary measure of progress.

8. Agile processes promote sustainable development. The Sponsors,developers, and users should be able to maintain constant paceindefinitely.

9. Continuous attention to technical excellence and good design enhancesagility.

10. Simplicity the art of maximizing the amount of work not done is essential.

11. The best architectures, requirements and designs emerge from selforganizing teams.

12. At regular intervals, the team reflects on how to become more effective,then tunes and adjusts its behaviour accordingly.

**Question 2– User Stories- Acceptance Criteria-BV-CP**

**Answer:**

 **USER STORIES**

**SPRINT-1**

|  |  |  |
| --- | --- | --- |
| 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: 02 |
| ACCEPTANCE CRITERIA Registration Screen Text Boxes for UserName, Password, NationID, Mobile No, Email, Address, Phone Number. Click on Register Button. Send Successful Notification to the user |

|  |  |  |
| --- | --- | --- |
| 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: 2 |
| ACCEPTANCE CRITERIA View Order, Display List of orders in the tabular Form |

|  |  |  |
| --- | --- | --- |
| 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 Text Box to enter. Business Rules: Within the radius of 5km |

|  |  |  |
| --- | --- | --- |
| 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. Business Rule. Can select only one payment mode |

|  |  |  |
| --- | --- | --- |
| 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. |

|  |  |  |
| --- | --- | --- |
| User Story No: 6 | Tasks: 2 | Priority: LOW |
| AS A CUSTOMER I WANT TO VIEW THE PRICE SO THAT I CAN ORDER THE FOOD |
| BV: 50 | CP: 1 |
| ACCEPTANCE CRITERIA 1.Display price in the list of menu items |

|  |  |  |
| --- | --- | --- |
| User Story No: 7 | Tasks: 2 | Priority: LOW |
| AS A CUSTOMER 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 trackingfield 3.Display delivery boy picture |

|  |  |  |
| --- | --- | --- |
| 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: 9 | Tasks: 2 | Priority: HIGH |
| AS A Business OWNER I WANT TO VIEW RESTAURANT REVENUE REPORT SO THAT I CAN VIEW THE RESTAURANT’SREVENUE |
| BV: 200 | CP: 3 |
| ACCEPTANCE CRITERIA Select ReportsSelect Revenue Reports Select to and from date Select Region(can select all) Generate Report Download Report in EXCEL |

|  |  |  |
| --- | --- | --- |
| User Story No: 10 | Tasks: 03 | 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: 03 |
| ACCEPTANCE CRITERIA CLICK ON PERFORMANCE OF RESTAURANTS SELECT FROM DATE TO DATE CLINCK ON GENERATE REPORT WHICH INCLUSES RESTAURANTSID, NAME, REVENUE CLICK ON DOWNLOAD REPORT SHOULD BE IN EXCEL |

|  |  |  |
| --- | --- | --- |
| User Story No: 11 | Tasks: 02 | Priority: Medium |
| AS A ADMIN I WANT TO SEE THE REGIONAL REVENUE REPORTS, SO THAT I CAN VIEW THE REGIONAL PERFORMANCE |
| BV: 100 | CP: 03 |
| ACCEPTANCE CRITERIA Select regional drop down View performance of each rest of that region in tabular form which includes restname,revenue,generatedDownload in excel or PDF |

|  |  |  |
| --- | --- | --- |
| User Story No: 12 | Tasks: 2 | Priority: High |
| AS A CUSTOMER I WANT TO CHAT WITH REG ADMINSO THAT I CAN REQUEST FOR REFUND |
| BV: 200 | CP: 02 |
| ACCEPTANCE CRITERIA 1)BR-ALLMANDATORY 2)TEXTBOXFIELDS 3)DISPLAYORDERID 4)TEXTBOX,FORDESCRIPTION 5)SUBMITBUTTON 6)GENERATEISSUEID7)DISPLAYSUCCESSFUL |

|  |  |  |
| --- | --- | --- |
| User Story No: 13 | Tasks: 2 | Priority: High |
| AS A CUSTOMER I WANT REGISTER IN SCRUM FOODSSO THAT I CAN LOGIN IN SCRUM FOODS APPLICATION |
| BV: 100 | CP: 2 |
| ACCEPTANCE CRITERIA REGISTRATION SCREENText Boxes for User Name, Password, Mobile No, Email, Address,Phone Number. Click on Register Button. Send Successful Notification to the user |

|  |  |  |
| --- | --- | --- |
| User Story No: 14 | Tasks: 2 | Priority: High |
| AS A CUSTOMER I WANT LOGIN IN SCRUM FOODSSO THAT I CAN USE THE SCRUM FOODS APPLICATION |
| BV: 200 | CP: 4 |
| ACCEPTANCE CRITERIA LOGIN SCREENText Boxes for User Name, Password, Mobile No, Email, Address,Phone Number. Click on Register Button. Send Successful Notification to the user |

|  |  |  |
| --- | --- | --- |
| User Story No: 15 | Tasks: 2 | Priority: High |
| AS A CUSTOMER I WANT LOGIN IN SCRUM FOODS SO THAT I CAN USE THE SCRUM FOODS APPLICATION |
| BV: 200 | CP: 4 |
| ACCEPTANCE CRITERIA LOGIN SCREEN Text Boxes for User Name, Password, Mobile No, Email, Address,Phone Number. Click on Register Button. Send Successful Notification to the user  |

|  |  |  |
| --- | --- | --- |
| User Story No: 16 | Tasks: 2 | Priority: High |
| AS A CUSTOMERI WANT SEARCH OPTION IN SCRUM FOODS APPLICATIONSO THAT I CAN SEARCH FOR RESTURANTS TO ORDER FOOD  |
| BV: 200 | CP: 4 |
| ACCEPTANCE CRITERIA LOGIN SCREENText Boxes for Search Menu, show Restaurant details.Enable Search option to display list of restaurants to order foods |

|  |  |  |
| --- | --- | --- |
| User Story No: 17 | Tasks: 2 | Priority: High |
| AS A CUSTOMERI WANT TO VIEW RESTURANTS MENU IN SCRUM FOODS APPLICATIONSO THAT I CAN SELECT FOOD TO ORDER FROM RESPECTIVE RESTAURANT |
| BV: 200 | CP: 4 |
| ACCEPTANCE CRITERIA View list of restaurants and Menu cards in Tabular Form. Show available Menu card of Restaurants |

|  |  |  |
| --- | --- | --- |
| User Story No: 18 | Tasks: 2 | Priority: High |
| AS A CUSTOMERI WANT TO ORDER FOOD FROM RESTURANTS LISTED IN SCRUM FOODSAPPLICATIONSO THAT I CAN SELECT FOOD TO ORDER FROM RESPECTIVE RESTAURANT |
| BV: 200 | CP: 50 |
| ACCEPTANCE CRITERIA Login, Show list of available restaurants, Display Menu cards, Enable the customer to select item and place order in application |

|  |  |  |
| --- | --- | --- |
| User Story No: 19 | Tasks: 3 | Priority: High |
| AS A CUSTOMERI WANT TO MAKE ONLINE PAYMENTSO THAT I CAN MAKE ONLINE ADVANCE PAYMENT |
| BV: 500 | CP: 100 |
| ACCEPTANCE CRITERIA Login, Show payment options, netbanking, UPI payment and credit card |

|  |  |  |
| --- | --- | --- |
| User Story No: 20 | Tasks: 3 | Priority: High |
| AS A CUSTOMERI WANT TO To Receive NotificationsSO THAT I Can Receive Updates |
| BV: 500 | CP: 100 |
| ACCEPTANCE CRITERIA Notifications for order confirmation, Notification for dispatch, Notification for deliver  |

|  |  |  |
| --- | --- | --- |
| User Story No: 21 | Tasks: 3 | Priority: Medium |
| AS A CUSTOMERI WANT TO Contact Customer Support SO THAT I CAN Submit Queries Or Issues |
| BV: 200 | CP: 2 |
| ACCEPTANCE CRITERIA Customer support section with contact information |

|  |  |  |
| --- | --- | --- |
| User Story No: 22 | Tasks: 2 | Priority: High |
| AS A CUSTOMERI WANT TO Receive And Manage OrdersSO THAT I CAN Update Order Status |
| BV: 200 | CP: 2 |
| ACCEPTANCE CRITERIA Manage order status, Notify restaurants about incoming orders |

|  |  |  |
| --- | --- | --- |
| User Story No: 23 | Tasks: 2 | Priority: High |
| AS A Restaurant OwnerI WANT TO Access To Customer ReviewsSO THAT I CAN View And Respond To Customer Reviews |
| BV: 200 | CP: 2 |
| ACCEPTANCE CRITERIA Owners can address feedback, Owners can improve their services  |

|  |  |  |
| --- | --- | --- |
| User Story No: 24 | Tasks: 1 | Priority: Medium |
| AS A CustomerI WANT TO Apply Promo codes, Coupons and Discounts SO THAT I CAN Order At Lower Price |
| BV: 100 | CP: 4 |
| ACCEPTANCE CRITERIA Active Promo codes, Coupons vouchers  |

|  |  |  |
| --- | --- | --- |
| User Story No: 25 | Tasks: 2 | Priority: High |
| AS A CUSTOMERI WANT TO Receive And Manage OrdersSO THAT I CAN Update Order Status |
| BV: 200 | CP: 2 |
| ACCEPTANCE CRITERIA Manage order status, Notify restaurants about incoming orders |

|  |  |  |
| --- | --- | --- |
| User Story No: 26 | Tasks: 3 | Priority: High |
| AS A CUSTOMERI WANT TO Cancel optionSO THAT I CAN cancel order for any reason |
| BV: 500 | CP: 100 |
| ACCEPTANCE CRITERIA Text box for cancel option, reason for cancellation |

|  |  |  |
| --- | --- | --- |
| User Story No: 27 | Tasks: 5 | Priority: High |
| AS A Delivery boyI WANT TO View The OrdersSO THAT they can Accept The Order |
| BV: 500 | CP: 100 |
| ACCEPTANCE CRITERIA Order visibility, Real-time updates, Order details, Order filtering and sorting, Order m view, Order navigation, Order completion and confirmation  |

|  |  |  |
| --- | --- | --- |
| User Story No: 28 | Tasks: 7 | Priority: High |
| AS A Delivery boyI WANT TO Accept The OrderSO THAT they can Accept The Order |
| BV: 200 | CP: 4 |
| ACCEPTANCE CRITERIA User Authentication, Error Handling, Password security, Multi-factor Authentication Compatibility and Usability. |

|  |  |  |
| --- | --- | --- |
| User Story No: 29 | Tasks: 5 | Priority: Medium |
| AS A Delivery boyI WANT TO To View Feedback SO That I Can Know The Customers Feedback |
| BV: 200 | CP: 4 |
| ACCEPTANCE CRITERIA Access to feedback system, Feedback Visibility, Feedback sorting and filter |

|  |  |  |
| --- | --- | --- |
| User Story No: 30 | Tasks: 2 | Priority: High |
| AS A CustomerI WANT TO View my account SO That I Can view my order and payment receipts |
| BV: 500 | CP: 100 |
| ACCEPTANCE CRITERIA Access to my account, order history, sent succesfull notfication to user. |

|  |  |  |
| --- | --- | --- |
| User Story No: 31 | Tasks: 2 | Priority: High |
| AS A Restaurant Owner I WANT TO login SO That I Can view order and details of customer. |
| BV: 500 | CP: 100 |
| ACCEPTANCE CRITERIA Access to view customer details, orders, email id, phone number and address. |

|  |  |  |
| --- | --- | --- |
| User Story No: 32 | Tasks: 6 | Priority: High |
| AS A Restaurant Owner I WANT TO View Revenue GeneratedSO That I Can view Restaurants Revenue |
| BV: 200 | CP: 4 |
| ACCEPTANCE CRITERIA Select Reports, Select Revenue Reports Select to and from date Select Region (ca select all) Generate Report, Download Report in EXCEL. |

|  |  |  |
| --- | --- | --- |
| User Story No: 33 | Tasks: 6 | Priority: High |
| AS A Restaurant Owner I WANT TO Know Delivery Boy SO That I Can Verify The Delivery Boy |
| BV: 200 | CP: 4 |
| ACCEPTANCE CRITERIA ID proof, Punctuality and reliability  |

|  |  |  |
| --- | --- | --- |
| User Story No: 34 | Tasks: 2 | Priority: low |
| AS A Customer I WANT TO View The Contact Number Of Delivery BoySO That I Can Contact Delivery Boy For The Status |
| BV: 50 | CP: 1 |
| ACCEPTANCE CRITERIA Display delivery boy mobile number, Display delivery boy name in tracking field, Di delivery boy picture |

|  |  |  |
| --- | --- | --- |
| User Story No: 35 | Tasks: 2 | Priority: Medium |
| AS A Restaurant OwnerI WANT TO Provide Time SlotsSO That Customers Can Check Opening And Closing Hours |
| BV: 100 | CP: 2 |
| ACCEPTANCE CRITERIA Click on restaurant dashboard, Add from time to time, Click on submit, Display upd successfully |

|  |  |  |
| --- | --- | --- |
| User Story No: 36 | Tasks: 2 | Priority: Medium |
| AS A Restaurant OwnerI WANT TO Provide Time SlotsSO That Customers Can Check Opening And Closing Hours |
| BV: 100 | CP: 2 |
| ACCEPTANCE CRITERIA Click on restaurant dashboard, Add from time to time, Click on submit, Display upd successfully |

|  |  |  |
| --- | --- | --- |
| User Story No: 37 | Tasks: 2 | Priority: High |
| AS A CUSTOMERI WANT TO give feedbackSO THAT I CAN give feedback on the order which they have received |
| BV: 500 | CP: 100 |
| ACCEPTANCE CRITERIA Text box for feeback option and rate delivery agent |

|  |  |  |
| --- | --- | --- |
| User Story No: 38 | Tasks: 3 | Priority: High |
| AS A CUSTOMERI WANT TO To Receive Updates SO THAT I CAN give feedback on the order which they have received |
| BV: 200 | CP: 2 |
| ACCEPTANCE CRITERIA Notifications for order confirmation, Notification for dispatch, Notification for delivery. |

|  |  |  |
| --- | --- | --- |
| User Story No: 39 | Tasks: 4 | Priority: Medium |
| AS A CUSTOMERI WANT TO View The OrderSO THAT I CAN Cancel or return it |
| BV: 100 | CP: 3 |
| ACCEPTANCE CRITERIA Order status, Method of cancellation or return and Refund policy, Time frame.  |

|  |  |  |
| --- | --- | --- |
| User Story No: 40 | Tasks: 4 | Priority: High |
| AS A Regional AdminI WANT TO To Track The Delivery SO THAT I CAN View The Status Of The Delivery |
| BV: 100 | CP: 3 |
| ACCEPTANCE CRITERIA Real time tracking Security and data privacy User friendly Interface |

**Question 3– What is epic? Write 2 epics**

**Answer:**

EPIC is the set of user stories or the big user story consisting the number of small user stories to complete the mile stone known as EPIC.

EPIC can be said as the set of user stories completed to achieve one task.

1. RESGIATRATIONAS A CUSTOMER I WANT TO REGISTER IN SCRUM FOOD APP SO THAT I CAN LOGIN AND PLACE ORDER.

2. LOGINAS A CUSTOMER I WANT TO LOGIN IN SCRUM FOOD SO THAT I CAN ORDER THE FOOD AND MAKE PAYMENT

**Question 4–What is the difference between BV and CP**

**Answer:**

**1.BV –** BV stands for business value which is given by the client according to the importance of task.

Business Value is how important is this feature (user Story) to the Business. This is estimated by ScrumCurrency Notes. We provide Rs 1000. Rs 500, Rs 100, Rs 50, Rs 20 and Rs 10 Denominations

**2. CP -** CP is also known as Story Points (SP). CP is the effort required by the Scrum Developers to develop this feature (user story) using technology. Efforts include time taken to solve the complexity and write the code. CP is estimated by the Scrum Developers by using Poker cards. We provide pokers with values “?”, 1, 2, 3, 5, 8, 13, 20, 40, 100 and BIG.

**The main difference between the BV and CP** is that the BV value is decided or given the client according to the importance or the priority of task to be performed. However the CP value is indentified or given by the development team according to the efforts needed to perform the tasks.

Product Backlog Your User stories will go into Product Back log

**Question 5– Explain about Sprint**

**Answer:**

Sprints are time boxed iterations of a continuous project development cycle—short repeatable phases that last between one and four weeks. Sprints lie at the core of Agile and Scrum methodologies, an approach that takes large, complex product development projects and breaks them down into smaller, more manageable pieces.

What is sprint Duration: 2 Weeks - Your sprint Value \_

Scrum is a sub unit of Sprint.

What is scrum Duration: 1 day – Your scrum Value\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

**PBI**: Product Backlog Item

**Task:** Unit of Work done by 1 Developer in 1 Scrum

**WIP**: Work In Progress

Sprint Backlog

|  |  |  |  |
| --- | --- | --- | --- |
| **PBI** | **TASKS** | **WIP** | **DONE** |
| Registration | 3 | 2 | 1 |
| Login | 2 | 2 | 0 |
| AddResturants | 3 | 2 | 1 |
| Order Food | 3 | 0 | 3 |
| MakePayment | 3 | 3 | 0 |
| TrackDelivery | 3 | 3 | 0 |
| CustFeedback | 3 | 3 | 0 |

**Question 6– Explain Product backlog and sprint back log**

**Answer:**

**Product Backlog -**

The product backlog is a list that compiles all the tasks and user stories that must be done to complete the whole project. But it’s not just a simple task list.An effective product backlog breaks down each of the backlog items into a series of steps that help the development team.

The product backlog is very important for product managment, the implementation of agile and it’s also one of the seven scrum artifacts, which shape the scrum methodology. But even if it’s been planned out, the product backlog is not set in stone. Like most aspects of agile project management, there are going to change. Flexibility is crucial.

The product backlog shows project tasks and user stories as well as their deadline, who’s assigned to complete them, their priority level and percent complete. Managers can easily drag and drop these tasks to refine the product backlog. In addition, Project Manager also allows team members to interact in real time

**Sprint backlog :**

The sprint backlog is a subset of the product backlog. The sprint backlog comes from the product backlog, but it contains only the product backlog items that can be completed during eachagile sprint. Think of it as the marching orders for the team as they go off on their short sprint.

The complexity of the project will determine the sprint backlog, but overall the idea is to dedicate the team only to those tasks that can be completed during the sprint. Ofcourse, if it is a complex project the sprint backlog can also grow in complexity and length.

Unlike the product backlog, though, the sprint backlog is unchanged during the period of the sprint. It can be changed, but only during the sprint planning meeting Once agreed upon, the items and steps to complete them are frozen for the length of the sprint.

**Question 7– What is impediments log? write 2 impediments**

**Answer:**

**Impediments :**

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. Impediments are hurdles or obstacles and these are recorded in Impediment Logs. They are “blockers” preventing the Scrum Team from completing work and should be included within impediment logs. All challenges faced by the team will be logged in the impediments log.

All challenges faced by the team will be logged in the impediments log.

|  |
| --- |
| a sick team memberLack of system knowledgelack of management support |

**Question 8– Explain Velocity of the Team**

**Answer:**

According to Scrum, Inc., team velocity is a “measure of the amount of work a team can tackle during a single sprint and is the key metric in Scrum”. When you complete a sprint, you'll total the points for all fully completed user stories and over time find the average number of points you complete per sprint.

Velocity – How many Complexity Points is covered in this sprint. Velocity of team is 8

**Question 9– Draw Sprint Burn Charts n Product Burn Down Charts**

**Answer:**

**Sprint Burn Chart:** A sprint burndown chart is a visual tool that tracks a team's progress toward a goal during a sprint. It shows the amount of work that remains to be done in a sprint, and how much time is left to complete it.

****

**Product Burn Down Chart**

A product burn down chart shows how much work remains for the entire project, where as a sprint burn down chart shows how much work remains in a specific iteration. A product burn down chart collects a larger amount of data.

****

**Question 10–Explain about Product Grooming**

**Answer:**

Product Grooming also called as Product refinement

Product Grooming is the session in which the vision or goal of the project or product is discussed and who will be your target group in which market segment does the product address. What are the needs and solution does the product required. Also what benefits the client will get.

Also to indentify the EPICs from the product backlog. Product grooming is processes of planning the project and understanding the needs.

Thus product grooming includes the refinement to understand what does the stakeholder require and why does it require and what is the value addition is to be done.

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

**Answer:**

**The Scrum master**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.

**The Product owner**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 representthe 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.

**Scrum** **Master** - The day to day activity of a Scrum Master involves servant leadership where they are involved in performance planning, coaching, self- organization, removing obstacles, resolving conflicts and serving the team.

**Product** **Owner** - The first responsibility of the product owner is customer satisfaction and this they carryout by ensuring that customer requirements are given priority and there is transparency between development team and stakeholders.

The product owner guarantees stakeholder satisfaction by ensuring product success, and building aproduct which meets business requirements.

The Scrum Master ensures project success, by assisting the product owner and the team in using the right Scrum processes for creating the end product and establishing the Agile principles.

The Product Owner interacts with the users and customers, Stakeholders, the Development team and the ScrumMaster to deliver a successful product.

The Product Owner and the Scrum Master are both invaluable members of a Scrum project team, as they build the perfect relation with the development team and strive to deliver the best results.

**Question 12 –Explain all Meetings Conducted in Scrum Project**

**Answer:**

There are five types of scrum meetings held during the scrum process which are as follows.

1. Sprint Planning Meeting

2. Daily Scrum Meeting

3. Sprint Review Meeting

4. Sprint Retrospective Meeting

5. Backlog Refinement Meeting

**Sprint Planning Meeting :**

This meeting begins with the Product Owner. In this meeting the PO explains their vision and how the team should go about completing this step of the project. During this meeting, team members decide the amount of work they can complete within the sprint. This is also when the team moves work from the Product Backlog to the Sprint Backlog. This step requires a lot of planning and can take several hours for the group to decide on a finalized Sprint.

**Daily Scrum Meeting :**

From the planning meeting, we move into the daily scrum meetings. Every single day for 15 minutes, the team gathers together to report any issues or progress on their tasks. Though brief, this meeting is an essential part of the scrum process. It is designed to keep all group members on track in a cohesive manner. Normally the Product Owner is present during all daily scrum meetings to assist in any way Daily Stand-up Meeting End of every Scrum, Scrum Developers will participate in Scrum meeting.

Here they must answer 3 Questions.

a. What task did you work in this scrum?

b. What task will you work on next scrum?

c. Any Challenges/impediments? When you will complete the user story?

**Sprint Review Meeting :**

This meeting is used to showcase a live demonstration of the work completed. During this meeting the Product Owner, Scrum Master and stakeholders are present to review the product and suggest changes or improvements.

They will see the Velocity – How many CP is covered in this Sprint Burn Down Chart.

**Sprint Retrospective Meeting :**

This meeting is held to facilitate a team’s reflection on their progress. The team speaks openly about their organizational concerns and teamwork. During this meeting, dialogue should remain friendly, non- judgmental and impartial. This review session is a key part of team building and development and it’salso very important for future scrum projects. In this meeting team will discuss about Challenges faced and come up with lessons learnt. We can use these lessons learnt in Sprint planning meeting to select user stories for the next sprint

**Backlog Refinement Meeting :**

Last, is the backlog refinement meeting. In this meeting, team members focus on the quality and skill of the work involved during the sprints. This meeting is necessary for the business owners to connect with the development team and is used to assess the quality of the final product. This meeting involves important reflection on the team backlogs.

**Question 13– Explain Sprint Size and Scrum Size**

**Answer :**

**Sprint Size** The whole concept of sprint is to identify User stories that the scrum team would work on and complete within a specific sprint duration. Typically known as the sprint length. Sprints can be of 1,2, 3 or 4 weeks long at the max. Anything beyond 4 weeks is never agile scrum project management.

**Scrum Size :** Scrum Team size can 8 to 10 people.

1.Product Owner

2.Scrum Master

3.Developers 8

**Question 14– Explain DOR and DOD**

**Answer:**

**The definition of Ready DOR**

The product owner could work together with the team to define an artifact called “the Definition of Ready” (DOR) for ensuring that items at the top of the backlog are ready to be moved into a sprint so that the development team can confidently commit and complete them by the end of a sprint.

The term “Definition of Ready” isn’t described in the Scrum Guide similar to the user stories and the Acceptance Criteria embedded in it. Perhaps, you may consider the Definition of Ready is an integralpart of the backlog refinement activity, instead of using the Definition of Ready as a sequential and phase-gate checklist. Backlog refinement is an ongoing process, therefore it’s not restricted to an eventbut considered an activity.

**Definition of Done: DOD**

The definition of Done is structured as a list of items, each one used to validate a user story or PBI, which exists to ensure that the Development Team agree about the quality of work they’re attempting to produce. It serves as a checklist that is used to check each Product Backlog Item (aka PBI) or UserStory for completeness. Items in the definition of “Done” are intended to be applicable to all items in theProduct Backlog, not just a single User Story. It can be summarized as following:

DoR and DoD are practices that are needed while improving a product. To ensure that the product meets customer expectations, certain features and ideas have to be added to it from time to time, and defining the criteria for the features to be added is absolutely necessary and that's when the DoR and DoD come into play.

**Question 15–Explain Prioritization Techniques and MVP**

**Answer:**

**Prioritization** of requirements is an important aspect of all software development approaches, but it is especially important in Agile software development. When we talk about some of the Product Owner's activities in Scrum products, such as "Ordering items in the Product Backlog to best achieve mission and objectives", "Demonstrate what the Scrum Team would work on next", and "Streamlining the qualityof the work the Developers performs", we are actually talking about workload prioritization. All we'reattempting to do is prioritize the issues in the backlog. In essence, we are attempting to discover the user's priority tasks and rank them accordingly, while also taking into account certain additional characteristics. For example, we may utilize five priority factors to rank user stories, such as the importance users place on product vision, urgency, time restrictions, technical difficulty, and stakeholder interests. Projects must be correctly prioritized for both the overall project objectives and the individual activities that will fulfill the objectives in order to be successful.

As a result, we address the prioritizing issue on two levels:

**Product** **level**: Evaluate which elements of the product might contribute more to the project's major aims.

**Tasks** **level**: Specify which work items must be completed and in what sequence during the software product development cycle. Types of Agile Prioritisation Techniques.

**MoSCoW Agile Prioritization Techniques**

MoSCoW analysis is a business analyst prioritizing approach advocated in the IIBA BABOK and derivedfrom the DSDM (dynamic software development method). According to this strategy, a collection of needs or user stories should be divided into four categories:

**M**: **Must**. Describes a criterion that must be met in the final solution for it to be judged successful.

**S**: **Should**. Represents a high-priority component that, if feasible, should be included in the solution. This is frequently a vital criterion, but it can be met in other ways if absolutely required.

C**:** **Could**. Describes a criterion that is desirable but not required. If time and resources allow, this will beadded.

**W**: **Will** **not**. Represents a demand that stakeholders have decided will not be executed in a particular release but will be addressed in the future. After categorizing the needs into four groups, they are rated in order of priority within each category.

**Priority Poker**

Priority poker is a simple design game for ranking objects in order of importance. Priority poker is named from the fact that it is quite similar to arranging poker (a technique for evaluating the costs of the user stories widely used in Agile development projects).

Before the game begins, the moderator collects all of the individuals who need to be engaged in the prioritizing process, such as stakeholders, product managers, strategists, programmers, domain experts, and sometimes even consumers. The moderator must also prepare a list of tasks to prioritizeas well as a collection of priority cards to distribute to each player.

The volume of cards in this set is determined by how many degrees of priority are useful in this specific instance. In certain circumstances, a 5 point scale (e.g., very high priority, high priority, medium priority, low priority, very lowpriority), a 3 point scale (e.g., high urgency, medium urgency, low urgency), or even a 10 point scalemay be used. The number of cards matches to the scale's numbers.

The supervisor then reviews a piece of functionality (user story). Each participant selects the card that they believe represents the best ranking for that assignment and sets it face down on the table. Aftereach player has made their selection, all of the cards are turned over at the same time. The disparitiesare addressed, and the game continues until the estimations are roughly equal.

**Cost of Delay**

This Agile prioritization technique is a concept that assists you in determining the amount of money you risk losing if certain features are unavailable. Essentially, you are putting yourself in the path of those who are combating fires. As a result, it is a proactive struggle to guarantee that there are no money-bleeding situations.

You may estimate how urgent they are by calculating how much money the organization would loseevery day if the feature or job is delayed. As a consequence, you will have a well-planned timetable that will contribute to total budget savings. As a result, this prioritizing strategy is motivated only by financialconsiderations and has nothing to do with user experience or customer happiness.

Although these factors may be considered when calculating the Cost of Delay, they are not the primarygoal of these Agile prioritization methods. The benefits of employing this priority technique in conjunction with others would be both financially and emotionally justifiable.

Conclusion:These Agile prioritization methods are critical components of project planning and management. You may wind up losing a lot of money on the project if you don't have appropriate Agile prioritizationtechniques in place. Furthermore, the initiative may have little influence on the intended clients. As aresult, it is critical to employ an objective prioritizing grading system that adds to the success of an Agileproduct development project.

**MVP**

 (Minimum Viable Product), the Core of the Agile Methodology. An MVPis a concept from agile scrum that refers to a product that has just enoughfeatures to satisfy the needs of early customers and, more importantly, give them something to provide feedback on to shape the future of the product.

**Question 16–Difference between Business Analyst and Product Owner**

**Answer:**

**Product Owner**

The Product onwer has a vision of the product keeping the domain/industryexperience 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 triesto leverage their experience in the domain, need of the market, the industry or the domain, the organization's market position, and the customer expectationof the product.

**Critical Responsibilities for Product Owner**

Market Analysis

Analysis of market need/demand

Availability of similar products in the market

Underserved customer needs

Potential trends in synergy with current offerings.

Enterprise Analysis

SWOT analysis

Due diligence on the market opportunity

Product offering decision based on the due diligence report

Product Vision and Roadmap

Product vision keeping the need analysis in mind

Product roadmap with high-level features and timeline

Managing Product Features

Managing stakeholder expectations and prioritizing needs

Prioritization of the epics, stories, and features based on criticality and ROI involved

Managing Product Backlog

Prioritization of user stories

Reprioritization based on stakeholders' needs

Epics planning

Managing Overall Iteration Progress

Sprint progress review

Reprioritization of sprints and epics if needed

Sprint retrospectives with Business Analyst

**Business Analyst :**

As we know, **Business Analysts** are the change-makers, problem solvers,questioners, facilitators, the bridge between the users/stakeholders and theAgile team. They question assumptions and requirements, assess the needs,find gaps, and work closely with the stakeholders/SMEs to detail therequirements, features, user stories, and understand/elicit the requirements.

They work closely with the Product Owners to manage the user stories and epics.

Requirements modeling and elicitation

Data flow diagrams

Business rules

Dependency mapping

Smooth execution of the sprints

Requirements clarification to the team

Maintaining the dependency map and the traceability matrix.

Facilitation support for users in UAT

Requirements elicitation

Modeling

Requirements walkthroughs

Requirements workshops

Acceptance criteria

Often the Business Analyst is considered a Proxy Product Owner. This allows the Agile team to have a higher amount of access to the ProductOwner's perspectives

**Critical Responsibilities for Business Analysts**

Managing User Stories

Prioritizing the user stories

Clearing the impediments if any

Detailing the Requirements as per the Stakeholders’ Needs andExpectations

Requirements elicitation

Business rules

Modeling

Requirements walkthroughs

Requirements workshops

Acceptance criteria

Clarifying the details of requirements with stakeholders

Coordinating with the development team to get the stories developed

Day to day support in requirements clarifications and business rules

SPOC for the agile team for all requirements related queries

Impact Analysis for Changes

Maintaining the traceability matrix and dependencies.

Components mapping

Impact analysis for changes

Work closely with the PO on the Sprint Execution

A representative of the PO in the Agile team in clarifying questions andissues.

Assists the PO in managing the sprint and the product backlog

Take a lead role in the sprint retrospectives

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

**Answer:**

Renuka chilukuri renuka.chilukuri1@gmail.com 7730091219

**Objective**

Motivated and forward-thinking product owner with 3+ years of experience. Eager to support team with leadership and guidance over a wide range ofproduct development efforts. In previous roles reduced the delivery time by 20% and was able to coordinate 95% of product completion in line with the company roadmap.

**Work Experience**

Agile Product OwnerDeutsche Bank Pune 2021

Acted as liaison between business, sales and IT teams to refine theproduct and incorporate features based on market demands.

Partnered with IT and product leadership to drive and manage thesolution development process and ensure the product team understands the direction and vision.

Collaborated with teams to discover and deliver the best solution to the market presented by the product team lead and the business.

Created and maintained the solution vision, roadmap, and backlog of work through the project's life cycle.

Translated features into user stories within the team’s backlog whilemanaging, ranking, and prioritizing this backlog to reflect stakeholder’srequirements

Key achievement:

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

**Scrum Product Owner**

Collaborated with stakeholders to understand business problemstatements and convert them into user stories.

Articulated product vision and user stories in a way clearlyunderstandable to development teams.

Managed backlog of user stories for 2 products simultaneously.

Established user story acceptance criteria and refined stories withScrum teams.

Created Sprint Release Plans with input from development teams.

Applied Agile methods and processes to promote a disciplined andtransparent project management process.

**Key** **achievement**:

Planned and estimated 2-week sprints in a realistic yet time-efficient manner that allowed the teams to deliver 97% of the MVP according tothe company roadmap.

**Education**

B.Sc., Computer Science Pune

**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

**Certifications**

Certified SAFe® Product Owner.

