**Question 1 – Write Agile Manifesto**

Agile – Scrum

Agile is Light weight

Can be implemented where faster delivery is required

No documentation

Customer retention since there is no documentation

The code in itself forms as documentation

Not support scalability and extendibility

Agile manifesto what values and principles need to consider while working in Agile as per below. It is nothing but document outline the 4 basic values of Agile and 12 principles of Agile

**Four main Values**

1. Individual and interaction over processes and tool
2. Working software over comprehensive documentation
3. Customer collaboration over contract negotiation
4. Responding to change over following plan

**Twelve Principles of Agile Software**

1. Satisfy the customer through early and continuous 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 week to couple of months, with a preference to the shorter timescale.
4. Business people and developers must work together daily throughout the project.
5. Build project around 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 development team is face to face conversation.
7. Working software is the primary measure of progress.
8. Agile process promotes sustainable development. The sponsors, developers and users should be able to maintain a constant pace indefinitely.
9. Continuous attention to technical excellence and good design enhances agility
10. Simplicity the art of maximizing the amount to work not done is essential.
11. The best architecture, requirements and design emerge from self-organising teams.
12. At regular intervals, the team reflect on how to become more effective, then tunes and adjusts its behavior accordingly.

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

User story in Agile describes a feature from the Users perspective, focusing o their needs and perspective, focusing on their needs and benefits. Its typically written “As a User, I want (Feature) so that (benefits). Below are 40 user stories for online Scrum food application.

|  |  |  |
| --- | --- | --- |
| User Story : 1 | Task: 2 | Priority : HIGHEST |
| AS A DELIVER BOY |
| I WANTO REGISTER IN SCRUM FOOD |
| SO THAT I CAN DELIVER ORDERS |   |
| BV : 500 | CP: 02 |
| 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 : 2 | Task: 2 | Priority : HIGHEST |
| AS A RESTAURANT OWNER |
| I WANT TO VIEW ORDERS |   |
| SO THAT I CAN VIEW THE LIST OF ORDERS |
| BV : 500 | CP: 02 |
| Acceptance Criteria: |
| View Order, Display List of orders in the tabular Form |

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| --- | --- | --- |
| User Story : 3 | Task: 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: 02 |
| Acceptance Criteria: |
| Text Box to enter |
| Business Rules: Within the radius of 5 km |

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| --- | --- | --- |
| User Story : 4 | Task: 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: 03 |
| Acceptance Criteria: |
| Display payment modes, radio buttons to select payment modes, paymentsbutton. |
| Business Rule. Can select only one payment mode |

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| --- | --- | --- |
| User Story : 5 | Task: 2 | Priority : HIGHEST |
| AS AN ADMIN |
| I WANT TO VIEW THE RESTAURANTS |
| SO THAT I CAN APPROVE THEIR REGISTRATION |
| BV : 500 | CP: 03 |
| Acceptance Criteria: |
| List of restaurants, select Restaurants, verify restaurant details, approvebutton, reject button, notification to the restaurant. |

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| --- | --- | --- |
| User Story : 6 | Task: 2 | Priority : LOW |
| AS ACUSTOMER |
| I WANT TO VIEW THE PRICE |   |
| SO THAT I CAN ORDER THE FOOD |   |
| BV : 50 | CP: 01 |
| Acceptance Criteria: |
| Display price in the list of menu items |

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| --- | --- | --- |
| User Story : 7 | Task: 2 | Priority : LOW |
| AS A CUSTOMER |
| WANT TO VIEW THE CONTACT NUMBER OF DELIVERY BOY |
| SO THAT I CAN CONTACT DELIVERY BOY FOR THE STATUS |
| BV : 50 | CP: 01 |
| Acceptance Criteria: |
| Display delivery boy mobile number |
| Display delivery boy name in tracking field |
| Display delivery boy picture |

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| --- | --- | --- |
| User Story : 8 | Task: 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: 01 |
| Acceptance Criteria: |
| Click on restaurant dashboard |
| Add from time to time |
| Click on submit |
| Display updated successfully |

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| --- | --- | --- |
| User Story : 9 | Task: 2 | Priority : HIGH |
| AS A BUSINESS OWNER |
| I WANT TO VIEW RESTAURANT REVENUE REPORT |
| SO THAT I CAN VIEW THE RESTAURANT’S REVENUE |
| BV : 200 | CP: 03 |
| Acceptance Criteria: |
| Select Reports |
| Select Revenue Reports |
| Select to and from date |
| Select Region (can select all) |
| Generate Report |
| Download Report in EXCEL |

|  |  |  |
| --- | --- | --- |
| User Story : 10 | Task: 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: 03 |
| Acceptance Criteria: |
| Click on performance of restaurant |
| Select from date to date |
| Chunk on generate report which includes restaurant ID, name, revenue |
| Click on download report should be in Excel |

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| --- | --- | --- |
| User Story : 11 | Task: 2 | Priority : HEDIUM |
| AS AN 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 dropdown |
| View performance of each rest of that region in tabular form which includes |
| View performance of each rest of that region in tabular form which includesrest name, revenue, generated |
| Download in excel or PDF |

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| --- | --- | --- |
| User Story : 12 | Task: 2 | Priority : HIGH |
| AS A CUSTOMER |
| I WANT TO CHAT WITH REG ADMIN |
| SO THAT I CAN REQUEST FOR REFUND |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
|  BR all mandatory |
| Text box fields |
| Display order ID |
| Text box, for description |
| Submit button |
| Generate issue ID |
| Display Successful |

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| --- | --- | --- |
| User Story : 13 | Task: 2 | Priority : HIGH |
| AS A HUNGRY CUSTOMER |
| I WANT TO BROWSE NEARBY RESTAURANTS |
| SO THAT I CAN ORDER THE FOOD |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| Each restaurant entry displays its name, cuisine type and rating |
| This list can be sorted distance or rating |

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| --- | --- | --- |
| User Story : 14 | Task: 2 | Priority : HIGH |
| AS A CUSTOMER |
| I WANT TO BROWSE DIFFERENT RESTAURANT AND MENU |
| SO THAT I CAN FIND PLACE TO ORDER |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| The menu includes price, food item and description |
| Show the restaurant is open or close |

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| --- | --- | --- |
| User Story : 15 | Task: 1 | Priority : HIGH |
| AS A CUSTOMER |
| I WANT TO BROWSE A SPECIFIC DISHESH AND CUSINES |
| SO THAT I CAN FIND PLACE TO ORDER |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| App displays relevant restaurant and dishes matching the query |
| Show the restaurant is open or close |
|  |  |  |
| User Story : 16 | Task: 1 | Priority : HIGH |
| AS A CUSTOMER |
| I WANT TO FILTER RESTAURANT |
| SO THAT I CAN FIND PLACE TO ORDER |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| Filter restaurants by cuisine type and dietary option( Veg, Non Veg, Egg) |
|  |  |  |
| User Story : 17 | Task: 2 | Priority : HIGH |
| AS A CUSTOMER |
| I WANT TO TRACK MY ORDER |
| SO I CAN KNOW THE TIME OF DELIVERY |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| App show real time update on the order status |
| Display estimate delivery time |
|  |  |  |
| User Story : 18 | Task: 1 | Priority : HIGH |
| AS A CUSTOMER |
| I WANT TO RATE AND REVIEW RESTAURANTS |
| SO THAT I CAN RATE AND REVIEW THE RESTAURANT I HAVE VISITED |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| Can see reviews from other user to help me make dining decision. |
|  |  |  |
| User Story : 19 | Task: 1 | Priority : HIGH |
| AS A CUSTOMER |
| I WANT TO SAVE FEVORIE RESTAURANT AND DISHESH |
| SO THAT I CAN ORDER FROM MY FEVORITES |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| Access my list of favourites easily for future orders |
|  |  |  |
| User Story : 20 | Task: 1 | Priority : HIGH |
| AS A CUSTOMER |
| I WANT TO VIEW PAST ORDER HISTORY |
| SO THAT I CAN ORDER AGAIN |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| I can see the details and such as order items, total cost and order date. |

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| User Story : 21 | Task: 3 | Priority : HIGH |
| AS A USER |
| I WANT TO RECEIVE NOTIFICATION |
| SO THAT I CAN RECIVE AN UPDATE |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| Notification for an order confirmation |
| Notification of dispatch |
| Notification for delivery |

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| --- | --- | --- |
| User Story : 22 | Task: 1 | Priority : MEDIUM |
| AS A RESTAURANT OWNER |
| I WANT TO RECEIVE AND MANAGE ORDERS |
| SO THAT I CAN UPDATE ORDER STATUS |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| Customer support section with contact information |
|  |  |  |
| User Story : 23 | Task:2 | Priority : HIGH |
| AS A RESTAURANT OWNER |
| I WANT TO ACCESS TO CUSTOMER REVIEWS |
| SO THAT I CAN RESPOND TO CUSTOMER REVIEWS |
| BV : 200 | CP: 02 |
| Acceptance Criteria: |
| Owner can address feedback |
| Owner can improve their service |

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| --- | --- | --- |
| User Story : 24 | Task: 1 | Priority : MEDIUM |
| AS A CUSTOMER |
| I WANT TO APPLY PROMOCODE AND DISCOUNTS |
| SO THAT I CAN ORDER AT LOWER PRICE |
| BV : 100 | CP: 04 |
| Acceptance Criteria: |
| Active promocode  |

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| --- | --- | --- |
| User Story : 25  | Task: 7 | Priority : HIGH |
| AS A DELIVERY BOY |
| I WANT TO VIEW THE ORDERS |
| SO THAT I CAN ACCEPT THE ORDERS |
| BV : 200 | CP: 04 |
| Acceptance Criteria: |
| Order visibility |
| Real time updates |
| Order details |
| Order filtering and sorting |
| Order map view |
| Order navigation |
| Customer support section with contact information |

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| --- | --- | --- |
| User Story : 26 | Task: 5 | Priority : HIGH |
| AS A DELIVERY BOY |
| I WANT TO LOGIN |
| SO THAT I CAN ACCEPT THE ORDERS |
| BV : 200 | CP: 04 |
| Acceptance Criteria: |
| User authentication |
| Error handling |
| Password security |
| Multi factor authentication |
| Capability and Usability |
|  |  |  |
| User Story : 27 | Task: 5 | Priority : MEDIUM |
| AS A DELIVERY BOY |
| I WANT TO VIEW FEEDBACK |
| SO THAT I CAN KNOW THE CUSTOMER FEEDBACK |
| BV : 200 | CP: 04 |
| Acceptance Criteria: |
| Access to feedback system |
| Feedback visibility |
| Feedback sorting and filtering |
| Response mechanism |
| User support |

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| --- | --- | --- |
| User Story : 28 | Task: 5 | Priority : MEDIUM |
| AS A RESTAURANT OWNER |
| I WANT TO VIEW FEEDBACK |
| SO THAT I CAN KNOW THE CUSTOMER FEEDBACK |
| BV : 200 | CP: 04 |
| Acceptance Criteria: |
| Access to feedback system |
| Feedback visibility |
| Feedback sorting and filtering |
| Response mechanism |
| User support |
|  |  |  |
| User Story : 29 | Task: 5 | Priority : MEDIUM |
| AS A DELIVERY BOY |
| I WANT TO VIEW FEEDBACK |
| SO THAT I CAN KNOW THE CUSTOMER FEEDBACK |
| BV : 200 | CP: 04 |
| Acceptance Criteria: |
| Access to feedback system |
| Feedback visibility |
| Feedback sorting and filtering |
| Response mechanism |
| User support |

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| --- | --- | --- |
| User Story : 30 | Task: 3 | Priority : HIGH |
| AS AN ADMIN |
| I WAN TO KNOW THE ISSUES |
| SO THAT I CAN RESOLVE THEM |
| BV : 100 | CP: 03 |
| Acceptance Criteria: |
| Display issue section |
| Sorting and filtering the issues list |
| Editing and modifying the issues |
|  |  |  |
| User Story : 31 | Task: 3 | Priority : HIGH |
| AS A REGIONAL ADMIN |
| I WAN TO KNOW THE ISSUES |
| SO THAT I CAN RESOLVE THEM |
| BV : 200 | CP: 04 |
| Acceptance Criteria: |
| Display issue section |
| Sorting and filtering the issues list |
| Editing and modifying the issues |

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| --- | --- | --- |
| User Story : 32 | Task: 6 | Priority : MEDIUM |
| AS A RESATURNAT OWNER |
| I WANT TO VIEW REVENUE GENERATD |
| SO THAT I CAN VIEW RESTAURANT REVIEW |
| BV : 200 | CP: 04 |
| Acceptance Criteria:Select reports |
| Select revenue reports |
| Select to and from date |
| Select region |
| Generate reports |
| Download reports in Excel |
|  |  |  |
| User Story : 33 | Task: 2 | Priority : MEDIUM |
| AS A RESTAURANT OWNER |
| I WANT TO KNOW THE DELIVERY BOY |
| SO THAT I CAN VERIFY THE DELIVERY BOY |
| BV : 200 | CP: 04 |
| Acceptance Criteria: |
| ID Proof |
| Punctuality and reliability |

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| --- | --- | --- |
| User Story : 34 | Task: 2 | Priority : LOW |
| AS A CUSTOMER |
| I WANT TO VIEW THE CONTACT NUMBE ROF DELIVERY BOY |
| SO THAT I CAN CONTACT DELEIVERY BOY FOR THE STATUS |
| BV : 50 | CP: 01 |
| Acceptance criteria: |
| Display delivery boy mobile number |
| Display delivery boy name in tracking field |
| Display delivery boy picture |
|  |  |  |
| User Story : 35 | Task: 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: 02 |
| Acceptance criteria: |
| Click on restaurant dashboard |
| Add from time to time |
| Click on submit |
| Display updated successfully |

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| User Story : 36 | Task: 4 | Priority : MEDIUM |
| AS A CUSTOMER |
| I WANT TO VIEW THE ORDER |
| SO THAT I CAN CANCLE IT |
| BV : 100 | CP: 03 |
| Acceptance criteria: |
| Order status |
| Method of cancellation |
| Display delivery boy picture |
| Time frame |
|  |  |  |
| User Story : 37 | Task: 4 | Priority : HIGH |
| AS A REGIONAL ADMIN |
| I WAN TO TRACK THE DELIVERY |
| SO THAT I CAN VIEW THE STATUS OF THE DELIVERY |
| BV : 100 | CP: 03 |
| Acceptance criteria: |
| Real time tracking |
| Security and data privacy |
| User friendly interface |

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| --- | --- | --- |
| User Story : 38 | Task: 6 | Priority : LOW |
| AS A CUSTOMER |
| I WANT TO UPDATE CONTACT NUMBER |
| SO THAT I CAN ORDER THROUGH NEW UPDATED NUMBER |
| BV : 50 | CP: 05 |
| Acceptance criteria: |
| Show update details option |
| Enter new number |

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| --- | --- | --- |
| User Story : 39 | Task: 6 | Priority : LOW |
| AS A CUSTOMER |
| I WANT TO ADD ORDER ADDITIONAL REQUEST WHILE PLACEING AN ORDER (EXTRA TISSUES, EXTRA PAPER CUP) |
| SO THAT I CAN GET EXTRA TISSUES /EXTRA PAPER CUP WITH MY ORDER |
| BV : 50 | CP: 05 |
| Acceptance criteria: |
| Show addition information column |
| Add request |

|  |  |  |
| --- | --- | --- |
| User Story : 40 | Task: 8 | Priority : MEDIUM |
| AS A CUSTOMER |
| I WANT TO CHECK CURRENT OFFERS |
| SO THAT I CAN ORDER DESIRED FOOD |
| BV : 50 | CP: 05 |
| Acceptance criteria: |
| Show ongoing offers food item |
| Show teams and condition |
| Show duration of offer |

**Questions 3- What is epic? Write 2 epic.**

An epic is a set of related user stories. They are also considered a “really big user story”.

It is set of User stories. Epic are larger user stories that can be broken down into smaller, manageable user stories before that start of sprint. Below 2 examples of epic storis.

**Epic 1** – Here I have considered restaurant reviews and rating in the scrum food application in the view of user as an epic which can be further broken down into user stories as the following.

User stories

As a user, I want to view ratings and review for restaurant on scrum foods, so that I can make informed decision about where to order food from.

As a user, I want to provide ratings and reviews for restaurants on scrum foods, so that I can share my experiences with other users and contribute to the community

Acceptance Criteria

Users can rate and review in view of food, ambience, restaurant while logging in the application

Users can read detail reviews / comments left by other customers

The rating and reviews system maintains the authenticity of user feedback

User can edit or delete their own reviews within a specific timeframe

Reviews are displayed in a way that provides helpful insights to other users.

**Epic 2-** The real time order tracking aims to provide Users with a seamless and transparent experience by allowing them to track the status and location of their food orders in real time. This feature enhance customer satisfaction, reduces support inquires and improves overall engagement. in the view of user as an epic which can be further broken down into user stories as the following.

User Stories

As a User, I want to see the live status of my order

As a User, I want to track the location of my delivery

As a User, I want to receive notification for order updates.

As a User, I want to contact delivery partner directly

As a User, I want to view the delivery route

As a User, I want to provide feedback on the delivery experience.

As an admin, I want to monitor order tracking performance.

Acceptance Criteria

The app should provide real time updates on the status of the users order. Such as Order out for delivery, order received.

The app should display the live location of the delivery driver.

The app should provide an accurate estimated time of delivery based on driver current location.

User should receive push notification or in app alerts for significant order updates such as when its near the delivery address.

The real time tracking should adhere to data privacy regulations and ensure that user data is handled securely and use only for order tacking purposes.

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

**BV –** Business Value is nothing but what values you are going to give that particular user story base on how must that user story is importance to the business.

Business Value can be delivered by lowering costs, increasing revenue, growing customer satisfaction, reducing risk or enhancing capability.

Business Value is how importance is these features (User story) to the business.

This is not a cost development or the complexity of the feature.

This is estimated by scrum currency notes. We provide Rs 1000, Rs 500, Rs 100,Rs 50,Rs 20 and Rs 10 Denominations. These estimations are done by the stakeholders (Clients) / business Users/ business owner.

**CP- Complexity Point**. CP is also known as Story points (SP). Story point are an important part of user story mapping.

CP is the efforts by the Scrum Developers to develop this feature (User story) using technology.

CP is 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 poker with values “?” 1,2,3,5,8,13,20,40,100 and Big. Means how must time it will take to complete that particular user story. Within same hour they cannot complete all task, so base on the complexity they give values. Like this based on complexity developers give particular value.

Story points help development team to plan their work and to have better delivery predictability.

**Question 5- Explain about Sprint**

**Definition-**

A sprint is a scrum based agile methodology concept that is similar to an iteration. A sprint is a time boxed to deliver a specific set of user stories and produce working features within a set time period. During sprint planning, the business customer or product owner specifies the user story priority, and the development commits to the scope of the given sprint. During a sprint User stories can be removed from the sprint scope, this allows project team to focus on the of the sprint and delivery rapidly.

In short Sprint is a core concept in Agile methodology such as Scrum, which emphasizes flexibility, collaboration and delivering value to the customer in shorter cycle.

**Who conducts Sprint?**

The scrum team conducts a Sprint which includes, Product owner who defines what’s need to be done, then Scrum master who ensure the team follows Agile practices and removes obstacles and development team who does the actual work such as coding, designing, testing etc.

**Importance points to include in a Sprint**

**Sprint Goals -** The goal of a sprint is to deliver a usable, potentially shippable product or feature by the end of the time frame. A clear objective for what the sprint should be achieve.

**Sprint Duration**- Sprint is the duration that team decides to deliver their objectives, normally a sprint period will be for 2 weeks but may extend to 4 weeks.

**Sprint Planning**- During sprint planning, the development team breaks down the selected item from the product backlog into smaller task and estimate the effort required for each task. The team commits to completing these tasks within sprint duration.

**Backlog Items**- Specific tasks or feature selected from Product backlog.

**Development team**- The development team works on the tasks identified in the sprint backlog. The collaborative closely, often using techniques like programming and frequent code reviews to ensure high quality work.

**Continuous integration**- Developers integrate their code changes into the main codebase regularly, ensuring that the software remains functional and stable throughout the sprint.

**Testing**- Testing is a integral part Automated test are run or may be conducted manual testing to ensure the quality of the software.

**Collaboration-** Continuous communication within the team

**Meetings-**

**Sprint Planning Meetings**- This happens at the beginning of each sprint and team decides on what they will be delivering in the sprint. A meeting at the start to decide what task will be worked on.

**Daily Scrum Meeting-** This happens each day where team will just answer 3 questions, such as what did you do today? what will you do tomorrow? & are there any implements that is showing or stopping you?

**Sprint review meeting-** This happens at the end of the sprint where team will demo the completed stories to product owner and get it cleared.

**Sprint Reciprocative meeting**- This happens at the end of the sprint where team will answer 3 questions. What went well in sprint? what did not go well? what are required areas of improvements in next sprint?

As above entire explanation of Sprint in short, Sprint has 2–4-week duration where team work together to complete specific task or goals, its part of Agile methodology, focusing on delivering a small, usable part of the project. At the end Sprint, the team reviews their work and plans for the next one.

**Question 6- Explain Product backlog and sprint back log.**

**Product backlog**

Product Backlog is a flexible, it is a list of all tasks, user stories, enhancement, bug fix, features and requirements needed, improvement for product. It is created and managed by the product owner and serves as the central to do list for the development team. The items in the backlog are prioritize based on their importance and value to the product. The product backlog the list continually refined and updated based on feedback, changing requirements and new insights.

**Sprint Backlog**

The Sprint Backlog is a subset of the Product backlog that represents the work that the development team commits to completing during specific time called Sprint. A sprint is a fixed time period usually 2-4 weeks. Sprint backlog means it has 4 items product backlog, task, work in progress and done stage. Means unit of work done by 1 developer in 1 scrum day. So here each developer some and pick up task from product backlog, write his name on task, keep work in progress and go back to the seat.

The Sprint backlog is created during the Sprint planning meeting, where the development team selects a set of items to work on based on their capacity and the prioritise set by the product owner. Daily stand-up meeting discusses the sprint backlog in accordance with sprint goal.

**Question 7- What is impediments log? Write 2 impediments.**

An impediment log, also known as an issue log or obstacle log is a document or tool used in Agile software development to track and manage obstacles.

An impediment log is a simple list used by scrum team to track and manage problem that slow down or clock their work. These issues could be technical problems, resources shortage delays, or anything else affecting progress. The Scrum master keeps log updated and works to resolve the issues quickly, this helps teams stay focused and complete their goal on time.

Write 2 impediments

1. Performance issues in the mobile app.
2. Insufficient team training.

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| --- | --- |
| **Id** | 1 |
| **Description** | The app is experiencing performance lags when searching for restaurant during high traffic loads, which comes under technical issues. |
| **Impact** | A key feature is not meeting the performance acceptance criteria, delaying deliver |
| **Priority** | High |
| **Assigned to** | Development team /Tech team |
| **Status** | In Progress |
| **Action taken** | A Tech team has identified the root cause and is working on a fix. Conduct load testing, The QA team is conducting testing to ensure the issue is resolved. |
| **Resolution** | The Tech team has implemented a fix and conducting through testing. Now app can show performance  |

|  |  |
| --- | --- |
|  **Id** | 2 |
| **Description** | Team members lack experience with a critical technology, such as the framework used for the food deliver app |
| **Impact** | Development team is slower than expected |
| **Priority** | High |
| **Assigned to** | Scrum Master |
| **Status** | In Progress |
| **Action taken** | Providing training session or online resources for the team, pair experienced delevlopers with less experienced one for knowledge transfer |
| **Resolution** | Development speed is enhanced as compare to previous speed. |

**Question 8- Explain Velocity of the team.**

Basically, Velocity means how many complexities point covered in this Sprint then we will get value, based on that we can say this is velocity of the team. Velocity calculated by scrum master. Scrum master would like to see, how many hours can development team spend on this sprint

For Scrum it not have one sprint running, it will have multiple sprints running parallel. Every team member will spend some hours, combination of these hours is called as Velocity

**Question 9- Sprint Burn Charts and product Burn Down Charts**

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Sprint burn down chart and product burn down chart draw during the sprint review meeting.

**Sprint burn down chart** means what is completed to be measure in Sprint burn down chart.

Sprint burn down chart shows the simple progress of work during sprint, tracking how much sprint is completed. It helps team to see if there are on track to complete the sprint goals.

What is need to be completed measure in **Product burn down Chart**, showing how much work is left in entire product backlog. It shows how much work left to complete all planned feature, helping stakeholder to track overall process.

**Question 10- Explain about Product Grooming**

Product grooming, also known as backlog refinement, is a ongoing process in Agile Scrum where the scrum team collaborates to improve and maintain the product backlog. Product backlog is a list of task, feature or improvement that need to be done. Product owner, scrum master and development team are participant in product grooming meeting.

Process of during product grooming explanation as per below.

**Clarifying task –** The team discusses backlog item to make sure everyone understood.

**Prioritizing-** The team decides which task are most important to work on next

**Break down work-** Big task (Called epic) are split into smaller, more manageable tasks called user stories.

**Adding details-** Remove unnecessary backlog. The team add missing information, such as specific requirements or acceptance criteria

**Estimating efforts-** The team estimates how much work (time or complexity) each task will take.

In summary the goal of product grooming meeting is to ensure the backlog is clear, organized and ready for the team to work on in future sprint. This helps avoid confusion and keep the team productive.

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

**Scrum Master**

Scrum master helps the team follow Scrum practices and removes any obstacles they face during work, they act as a team coach, guide and responsible for maintain the quality of the product, ensure the team works efficiently and stay focused on their goal.

Scrum master ensure the scrum framework is followed and helps the development team create a quality product

Scrum master accountable for the quality of the entire project and for giving updates to the managements about the completion of the product.

Scrum master reports to top management about the efficiency of the team and the quality of the product.

Throughout knowledge of scrum theory and practices, Scrum master being able to lead the team.

**Product Owner**

Product owner works closely stakeholders to gather input and understand the business goals. They create and maintain a list of tasks called product backlog and prioritize them and make decision on what features should be worked on first, ensuring product meets the user needs.

Product owner does collaboration with all the stakeholders and bring the vision of a product info the product backlog.

Product owner is responsible for completing the project on time. Acts as an intermediary between development team and the customers.

Product owner is responsible for project backlog and the timely completion of the product and for providing updates to the clients and stakeholders.

Product owner is reports to top management and clients

Qualities such as communication and leadership skills, creativity, critical thinking and a sharp mind are key assets for mind are key assets for any product owner.

**Question 12 Explain all meetings conducted in Scrum Project**

Scrum in Agile framework used for managing complex project by breaking them into smaller manageable parts, it relies on teamwork, communication and frequent feedback to deliver high quality results. Meetings in scrum are structures evert that help the team stay aligned improve and track progress. Below the explanation of each Scrum meetings.

**Sprint Planning Meeting-** This meeting happened at the beginning of each sprint and team decided on what they will be delivering in the sprint, what team will do in upcoming sprint, duration of this sprint were 2 weeks. In this meeting entire scrum team were present product owner, scrum master, developers & testers. The purpose of this meeting was decided the sprint goal like what to achieve be the end of the sprint, selected user stories (task) from the product backlog that will be worked on and broke task into smaller task and estimated efforts required for this sprint.

**Daily Scrum meeting-** Held daily stand-up meeting during the sprint among Scrum team member, 15 min max to discuss progress and plans. Here each team membered answered these 3 questions. What did you do today? What will you do tomorrow? Are there any impediments that is slowing or stopping you? This meeting helps keep everyone aligned and informed about the progress and challenges.

**Sprint Review meeting-** This meeting held at the end of each sprint to show wok done to stakeholder, customer, product owner. Purpose of the meeting were demonstrated completed work, collect feedback from the stakeholder and gather feedback and based on these feedback product owners has updated backlog.

**Sprint Retrospective meeting-** This meeting was also held end of sprint after Sprint review. The team discussed what went well in the sprint?, what did not go well? What are the required area of improvements in next sprint?

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

**Sprint size** means number of user stories include, Sprint size refers to how long a sprint lasts and how much work a team plans to complete during that time. Duration of sprint mostly 2-4 weeks long, depending on the project team capacity, past performance, project complexity, business need. Keeping the sprint size consistent helps the team stay focused and track progress.

**Scrum size** is talks about the team of the scrum. The scrum team size refers to the number of individuals who collectively contribute to the development of the product. In this case study scrum team consist of product owner, the scrum master and the 8 development team.

For online food delivery application, the Scrum teams

Product owner- defines the product and manage product backlog. Eg Restaurant, customers.

Scrum master- Facilitate scrum practices and removes impediments Eg Team member unavailability, slow down development process

Development team- -Build the product (Developer, designer and tester) will working on features like order tracking, payment integration and push notification.

**Question 14- Explain DOR and DOD**

**DOR Definition of Ready**- The definition of Ready DOR ensure that task or user story is fully prepared before work begins. It includes requirements, detailed acceptance criteria, necessary resource and manageable scope. BY meeting the DOR, the team avoids delays and confusion, ensuring work start smoothly.

Think of it as a checklist to confirm that the task is clear and well prepared

**Example of DOR Criteria are**

* Task/ user stories is well written and understandable
* Acceptance criteria are defined (How success will be measure)
* Dependencies ore blockers are resolved
* The task is small enough to complete in one sprint

**DOD Definition of Done**- The definition of Done ensure that a task is completely finished and meets quality standards, it includes completed coding, through testing, meeting acceptance criteria, updated documentation and approvals. By following the DOD, the team ensures the work is ready for release or delivery.

It’s shared understanding of what done means for the team

**Examples of DOD Criteria are**

The work coded and tested

Documentation is updated

Code review are completed

The feature is deployed and accepted by the product owner.

**Questions 15- Explain Prioritization techniques and MVP**

**MoSCoW** **prioritization technique-**

MoSCoW is a step to prioritize the requirements, this technique used in business analysis and software development to reach common understanding with stakeholder on the importance they place. These technique helps to complete project within timeline and budget and effectively. MoSCoW is stand for must, should, could and would.

M Must – Must has which is mandatory and critical, without these requirements being fulfilled the project is actually failure

 Should- Should have, these are important but not necessary requirements.

C Could- These requirements are good to have but its ok to not to have.

W Won’t have

**KANO Model prioritization technique-**

This prioritization requirement technique model develop by professor KANO in 3 categories.

Basic Expected- These are present does not satisfied customer but their absence highly dissatisfied customer.

Performance Satisfiers- Meeting these requirements increase customer satisfaction.

Excitement Delighter – Do beyond customer satisfaction.

**Other Prioritization techniques**

1. 100 Dollar test- In this prioritization technique where we distribute 100$ across different options based on their importance or value, helping to rank them by priority.
2. Top 10 requirements- Give priority to Top 10 requirement
3. Numerical assignment- Mandatory, very important, rather important, not important, doe not matter.

**MVP Minimum Viable Product**

MVP Minimum Viable Product is the simplest version of a product that solves the main problem for users and gather feedback to improve it. The MVP approach focuses on,

1. Core feature – It include only the essential functions that meet the main needs of users.
2. Simplicity- Non essential features are left out to keep it simple and quick to create
3. Testing Ideas- It helps test assumptions about user needs, market demand and product potential.
4. Step by step improvement- Based on user feedback, the product is improved and more feature are added over time.
5. Quick start- It allows the product to launch early, attract users and learn from real use.

**Questions 16- Difference between Business Analyst and Product Owner**

Business Analyst and product owner are important in software development and business planning. Both help make product successful but they have different jobs and focus in different things, differences as per below.

|  |  |  |
| --- | --- | --- |
| **Aspects** | **Business Analyst** | **Product Owner** |
| Focus Area | Understand business needs, processes & requirements | Define prioritize and covey requirements for the product |
| Scope definition | Helps defines the scope of projects based on business needs. | Defines the feature and enhancement |
| Documentation | Creates documentations of business rules, workflow and requirements | Manage the product backlog and maintain clear user stories |
| Stakeholder interaction | Works with multiple stakeholders like business team, customer and technical teams to gather input | Acts as the main point of contact for the development team  |
| Responsibility | Responsible for gathering and documenting requirements, analysing data and support stakeholder | Responsible for defining the product vision, managing the product backlog and making decision about feature |
| Acceptance | Ensure business requirements are met | Ensure user stories meet acceptance criteria and align with product vision |
| Decision Making | Advice and provide insights but don’t have decision making authority | He has authority make decision about what prioritize and how the product evolve |
| Backlog management | Not typically responsible for managing a product backlog |  Manage and prioritize the product backlog items |

**Questions 17- Prepare a sample Resume of 3 yrs exp Product owner**

**Anayta Nikam Mobile No- 9673330437**

**Product Owner Email – anaytanikam@gmail.com**

 **City Pun, Mh**

**Career Objectives-**

To contribute as a Product Owner in an agile environment by delivering high quality products, aligning business goal with customer needs, and driving continuous improvement.

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**Work Experience-**

**Innovative Solution Pvt.Ltd**

**Scum Product Owner Jan 2023 - Till**

* Collaborated with stakeholder to understand business problem statements and convert into user stories
* Articulated product vision and user stories in a way clearly understandable to development teams.
* Managed backlog of user stories for 2 products simultaneously
* Established user story acceptance criteria and refined stories with Crum teams.
* Created sprint release plans with input from development teams.
* Applied Agile methods and processes to promote a disciplined and transparent project management process.

**Associated Product Manager**

**Eva Solution pvt. Ltd I Pune I Jan 2022– Jan 2023**

* Assisted in creating and maintaining product roadmaps to guide development teams.
* Supported the senior product manager in conducting market research and gathering customer feedback.
* Coordinated with developers and designers to ensure product features were delivered on time.
* Monitored product performance and provided reports to stakeholders, helping to inform future iterations.
* Participated in sprint reviews and contributed to process improvements.

**Product Intern**

**COEPD I Pune I Trainee July 2021 Dec 2021**

* Supported product managers in market research and customer interview to understand pain points &potential opportunities.
* Assisted organizing customer feedback sessions, which contributed to the development of new feature for the product
* Analyse competitors’ products and presented insights to help refine the product strategy.

**Skills**

Agile framework Scrum

Backlog Management

Requirement Analysis & User story creation

Customer centric product development

Stakeholder communication and negotiation

Jira

Analytical skills

Leadership

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**Education**

Bachelor of Science in Business administration

University of Mumbai I Sofiya College of Engineering

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**Certification**

IIBA 42 hrs Certification COEPD institute

Product owner certification