**Question 1** – Write Agile Manifesto – 8 Marks

**Answer 1-** Agile is a methodology for project management that emphasizes flexibility, collaboration, and customer-centric development. It emerged primarily from the software industry but has since been applied to various fields. Agile is a time-boxed, iterative approach to software delivery that builds software incrementally from the start of the project, instead of trying to deliver it all at once near the end. It works by breaking projects down into little bits of user functionality called user stories, prioritizing them, and then continuously delivering them in short period of time 2-4 weeks.

The Agile Manifesto, created in 2001 by a group of software developers, outlines its core values and principles.

**Agile Manifesto has four main values:**

1. Individuals and interactions over processes and tools
2. Working software over comprehensive documentation
3. Customer collaboration over contract negotiation
4. Responding to change over following a 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 weeks to a couple of months, with a preference to the shorter timescale.
4. Business people and developers must work together daily throughout the project.
5. Build projects 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 a development team is face-to-face conversation.
7. Working software is the primary measure of progress.
8. Agile processes promote 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. The best architectures, requirements, and designs emerge from self-organizing teams.
11. 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 – 40 Marks

Write minimum 40 User stories and their Acceptance Criteria

along with their BV and CP

**Answer 2-** User stories are short, simple descriptions of a feature from the perspective of the end user. They help teams understand user needs and prioritize development. A common format for user stories is:

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| User Story no.  | 1 | **Task:**  | 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 | **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:**  | 2 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| View Order, Display List of orders in the tabular Form |

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| **User Story no.**  | 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:**  | 2 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| Text Box to enter. |
| Business Rules: Within the radius of 5 km |

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| User Story no.  | 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:  | 3 |
| ACCEPTANCE CRITERIA |   |   |   |   |   |
| Registration Screen |
| Display payment modes, radio buttons to select payment modes, payments button. |
| Business Rule. Can select only one payment mode |

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| User Story no. | 5 | **Task:**  | 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 | **Task:**  | 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** |   |   |   |   |   |
| Display price in the list of menu items |

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| **User Story no.**  | 7 | **Task:**  | 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** |   |   |   |   |   |
| Display delivery boy mobile number |
| Display delivery boy name in tracking field |
| Display delivery boy picture |

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| **User Story no.**  | 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:**  | 2 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| Click on restaurant dashboard |
| Add from time to time |
| Click on submit |
| Display updated successfully |

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| **User Story no.**  | 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:**  | 3 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| Select Reports |
| Select Revenue Reports |
| Select to and from date |
| Select Region (can select all) |
| Generate Report |
| Download Report in EXCEL |

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| **User Story no.**  | 10 | **Task:**  | 2 | **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 |
| 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 | **Task:**  | 2 | **Priority:**  | Medium |
| AS 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 dropdown |
| 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 | **Task:**  | 2 | **Priority:**  | High |
| AS A CUSTOMER |
| I WANT TO CHAT WITH REG ADMIN |
| SO THAT I CAN REQUEST FOR REFUND |
| **BV:**  | 200 | **CP:**  | 2 |
| **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 no.**  | 13 | **Task:**  | 2 | **Priority:**  | High |
| AS A CUSTOMER |
| I WANT TO VIEW RESTAURANT'S MENU |
| SO THAT I CAN SELECT FOOD TO ORDER |
| **BV:**  | 500 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| Select restaurant |
| Show list of menu |
| select food |
| add to cart |

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| **User Story no.**  | 14 | **Task:**  | 2 | **Priority:**  | High |
| AS A CUSTOMER |
| I WANT TO DO REVIEW CART  |
| SO THAT I CAN PROCEED FOR CHECK OUT AND PAMENT |
| **BV:**  | 500 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| ADD ITEMS TO CART |
| REVIEW CART |
| ADD OF REMOVE ITEMS AND CHANGE QUNATITY |
| PROCEED TO CHECK OUT AND PAYEMTN  |
| SHOW PAYMENT MODE WINDOW |

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| **User Story no.**  | 15 | **Task:**  | 2 | **Priority:**  | High |
| AS A CUSTOMER |
| I WANT TO DO REVIEW CART  |
| SO THAT I CAN PROCEED FOR CHECK OUT AND PAMENT |
| **BV:**  | 500 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| ADD ITEMS TO CART |
| REVIEW CART |
| ADD OF REMOVE ITEMS AND CHANGE QUNATITY |
| PROCEED TO CHECK OUT AND PAYEMTN  |
| SHOW PAYMENT MODE WINDOW |

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| **User Story no.**  | 16 | **Task:**  | 2 | **Priority:**  | High |
| AS A CUSTOMER |
| I WANT TO TRACK ORDER  |
| SO THAT VIEW CURRENT LOCATION OF DELIVERY BOY |
| **BV:**  | 100 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| GENERATE ORDER ID |
| GENERATE SHIPPING ID |
| SHOW DELIVERY BOY LOCATION ON MAP |
| LIVE TRACKING OF ORDER.  |

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| **User Story no.**  | 17 | **Task:**  | 2 | **Priority:**  | High |
| AS A CUSTOMER |
| I WANT TO GIVE FEEDBACK AND RATING |
| SO THAT REVIEW THE SERVICE |
| **BV:**  | 100 | **CP:**  | 2 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| TEXT BOX TO ENTER  |
| SUBMIT BUTTON. |

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| **User Story no.**  | 18 | **Task:**  | 2 | **Priority:**  | High |
| AS A CUSTOMER |
| I WANT TO REGISTER |
| SO THAT I CAN LOGIN |
| **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.**  | 19 | **Task:**  | 2 | **Priority:**  | High |
| AS A CUSTOMER |
| I WANT TO LOGIN |
| SO THAT I CAN ORDER FOOD |
| **BV:**  | 500 | **CP:**  | 2 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| LOGIN WINDOW |
| TEXT BOX TO ENTER LOGIN ID AND PASSWORD |
| SUCCESFUL LOGIN PAGE.  |

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| **User Story no.**  | 20 | **Task:**  | 2 | **Priority:**  | High |
| AS A DELIVERY BOY |
| I WANT TO LOGIN |
| SO THAT I CAN VIEW THE ORDERS TO PICK UP  |
| **BV:**  | 100 | **CP:**  | 3 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| LOGIN WINDOW |
| TEXT BOX TO ENTER LOGIN ID AND PASSWORD |
| SUCCESFUL LOGIN PAGE.  |
| SHOW NEAR BY ORDERS to choose WITHIN VICINITY OF 5 Kms to pick up and deliver.  |

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| **User Story no.**  | 21 | **Task:**  | 2 | **Priority:**  | High |
| AS A DELIVERY BOY |
| I WANT TO CHECK PAYMENT MODE |
| SO THAT I CAN COLLECT PAYMENT IF COD  |
| **BV:**  | 100 | **CP:**  | 3 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SHOW ORDER ID |
| SHOW PAYMENT STATUS  |
| HILIGHT IN RED IF COD AS UNPAID |
| OPTION FOR DELIVERY BOY TO CONFIRM RECEIPT OF PAYMENT |
| AFTER PAYMENT RECIIPT PAID SHOULD APPEAR IN GREEN  |

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| **User Story no.**  | 22 | **Task:**  | 2 | **Priority:**  | High |
| AS A DELIVERY BOY |
| I WANT TO CHECK PAYMENT MODE |
| SO THAT I CAN COLLECT PAYMENT IF COD  |
| **BV:**  | 100 | **CP:**  | 3 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SHOW ORDER ID |
| SHOW PAYMENT STATUS  |
| HILIGHT IN RED IF COD AS UNPAID |
| OPTION FOR DELIVERY BOY TO CONFIRM RECEIPT OF PAYMENT |
| AFTER PAYMENT RECIIPT PAID SHOULD APPEAR IN GREEN  |

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| **User Story no.**  | 23 | **Task:**  | 2 | **Priority:**  | Medium |
| AS A DELIVERY BOY |
| I WANT TO CHECK NUMBER OF DELIVERIES MAED IN A DAY |
| SO THAT I CAN CHECK REVENUE GENERATED |
| **BV:**  | 100 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SHOW TOTAL DELIVERIES MADE IN A DAY |
| SHOW TOTAL REVENUW GENERATED FOR ALL THE DELIVERED FOOD.  |
| SHOW TOTAL FOR MONTH IS BAR GRAPH |

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| **User Story no.**  | 24 | **Task:**  | 2 | **Priority:**  | High |
| AS A RESTAURANT OWNER |
| I WANT TO CHECK DETAILS OF DELIVERY BOY AVAILABLE TO PICK ORDER.  |
| SO THAT I CAN CONFIRM FOR PICK UP |
| **BV:**  | 100 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SHOW REGISTERED DELIVERY BOY DETAILS |
| SHOW REVIEW AND RATING FOR THAT DELIVERY BOY  |
| CONFIRM OPTION FOR GIVE CONFIRMATION TO DELIVERY BOY FOR ORDER PICK UP  |

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| **User Story no.**  | 25 | **Task:**  | 2 | **Priority:**  | High |
| AS A RESTAURANT OWNER |
| I WANT TO CHECK DETAILS OF DELIVERY BOY AVAILABLE TO PICK ORDER.  |
| SO THAT I CAN CONFIRM FOR PICK UP |
| **BV:**  | 100 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SHOW REGISTERED DELIVERY BOY DETAILS |
| SHOW REVIEW AND RATING FOR THAT DELIVERY BOY  |
| CONFIRM OPTION FOR GIVE CONFIRMATION TO DELIVERY BOY FOR ORDER PICK UP  |

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| **User Story no.**  | 26 | **Task:**  | 2 | **Priority:**  | High |
| AS A CUSTOMER  |
| I WANT PROVIDE RATINGS AND FEEDBACK  |
| SO THAT I CAN REVIEW RESTAURANT AND DELIVERY BOY |
| **BV:**  | 100 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| TEXT BOY TO ENTER REVIEW  |
| SUBMIT BUTTON |
| SELECT NUMBER OF STARS TO GIVE FOR REVIEW |
| SHOW REVIEW AND STARS ON PORTAL  |

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| **User Story no.**  | 27 | **Task:**  | 2 | **Priority:**  | High |
| AS A RESTAURANT OWNER  |
| I WANT VIEW RATINGS PROVIDED BY CUSTOMER |
| SO THAT I CAN CHECK AREA OF IMPROVEMENT  |
| **BV:**  | 100 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SHOW REVIEW GIVEN BY CUSTOMER.  |
| SHOW REVIEW GIVEN BY CUSTOMER ON RESTAURANT'S PAGE.. |
| OPTION FOR RESTAURANT OWNER TO REPLY TO REVIEW.  |

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| **User Story no.**  | 28 | **Task:**  | 2 | **Priority:**  | High |
| AS A REG. ADMIN |
| I WANT LOGIN |
| SO THAT ACCESS THE APPLICATION |
| **BV:**  | 100 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SHOW LOGIN WINDOW |
| TEXT BOX TO ENTER LOGIN ID AND PASSWORD.  |
| SUCCESFUL LOGIN |

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| **User Story no.**  | 29 | **Task:**  | 2 | **Priority:**  | Medium |
| AS A REG. ADMIN |
| I WANT UPDATE TRACKING DETAILS  |
| SO THAT CUSTOMER CAN CHECK ORDER STATUS |
| **BV:**  | 100 | **CP:**  | 3 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| TEXT BOX TO ENTER TRAKING ID |

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| **User Story no.**  | 30 | **Task:**  | 2 | **Priority:**  | Low |
| AS A REG. ADMIN |
| I WANT TAKE CUSTOMER FEEDBACK  |
| SO THAT FURTHER IMPROVEMENTS CAN BE DONE |
| **BV:**  | 100 | **CP:**  | 3 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| FEEDBACK PROVIDED BY CUSTOMER.  |
| IF NOT PROVIDED THEN CAN SEND EMAIL TO CUSTOMER FOR THEIR FEEDBACK |

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| **User Story no.**  | 31 | **Task:**  | 2 | **Priority:**  | Medium |
| AS A REG. ADMIN |
| I WANT TO SEE ISSUES RAISED |
| SO THAT I CAN RESOLVE THE ISSUES |
| **BV:**  | 100 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| ISSUE RAISED RECORDS |
| TICEKT NUMBER FOR THE RAISED ISSUE AND ORDER ID.  |
| **User Story no.**  | 32 | **Task:**  | 2 | **Priority:**  | Medium |
| AS A REG. ADMIN |
| I WANT TO CHECK REFUNDS STATUS |
| SO THAT I RESOLVE THE REFUND ISSUE FOR CUSTOMER |
| **BV:**  | 100 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| REFUND LOGS |
| ISSUE FOR REFUND |
| CHECK THAT THE MONEY IS ADDED TO CUSTOMERS WALLET IN 3 WORKING DAYS. AND CUSTOMER CAN WITHDRAW MONEY FROM WALLET.  |

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| **User Story no.**  | 33 | **Task:**  | 2 | **Priority:**  | Low |
| AS A REG. ADMIN |
| I WANT TO LOGOUT |
| SO THAT I CAN LOGOUT OF THE PORTAL |
| **BV:**  | 100 | **CP:**  | 2 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| LOGOUT WINDOW |
| SUCCESFUL LOGOUT |

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| **User Story no.**  | 34 | **Task:**  | 2 | **Priority:**  | Medium |
| AS A ADMIN |
| I WANT TO LOGIN |
| SO THAT I CAN ACCESS THE PORTAL |
| **BV:**  | 100 | **CP:**  | 2 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| LOGIN WINDOW |
| TEXT BOX FOR LOGIN ID AND PASSWORD |
| SUCCESFUL LOGIN PAGE.  |

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| **User Story no.**  | 35 | **Task:**  | 2 | **Priority:**  | Low |
| AS A ADMIN |
| I WANT CHECK REGIONAL ADMIN REPORTS |
| SO THAT I CAN MANAGE REGIONAL ADMINS |
| **BV:**  | 500 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SELECT VIEW REPORTS |
| DASHBOARDS FOR REGIONAL ADMIN |
| CAN ABLE OT SEE THE REGIONAL ADMIN DASHBOARD FOR ALL FUNCTIONALITIES.  |

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| **User Story no.**  | 36 | **Task:**  | 2 | **Priority:**  | Low |
| AS A ADMIN |
| I WANT CHECK REGIONAL ADMIN CUSTOMER FEEDBACK DASHBOARDS |
| SO THAT I CAN CHECK IF CUSTOMER ISSUES ARE RESOLVED IN 24 HOURS TIME  |
| **BV:**  | 500 | **CP:**  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SELECT VIEW REPORTS |
| SELECT REPORTS |
| CUSTOEMR FEEDBACK DASHBOARDS FOR REGIONAL ADMIN |
| Select to and from date |
| Select Region (can select all) |
| Generate Report |
| Download Report in EXCEL |

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| **User Story no.**  | 37 | **Task:**  | 2 | **Priority:**  | Low |
| AS A ADMIN |
| I WANT CHECK CUSTOMER FEEDBACKS FOR DELIVERY BOYS |
| SO THAT I CAN APPROVE OF REJECT DELIVERY BOYS REGISTRATION |
| **BV:**  | 500 | CP:  | 3 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SELECT REPORTS OF REGIONAL ADMINS |
| CHECK REGISTRATION DETAILS OF DELIVERY BOYS |
| Select Region (can select all) |
| Generate Report |
| APPROVE OR REJECT  |

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| **User Story no.**  | 38 | **Task:**  | 2 | **Priority:**  | MEDIUM |
| AS A ADMIN |
| I WANT RESOLVE ISSUES PENDING FOR ADMIN APPROVAL |
| SO THAT I CAN RESOLVE THE PENDING ISSUES |
| BV:  | 500 | CP:  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SELECT REPORTS  |
| SELECT PENDING ISSUE FOR ADMIN APPROVALS |
| Select to and from date |
| Select Region (can select all) |
| Generate Report |
| Download Report in EXCEL |
|  |
| **User Story no.**  | 39 | **Task:**  | 2 | **Priority:**  | MEDIUM |
| AS A BUSINESS OWNER |
| I WANT SEE PERFORMANCE REPORTS |
| SO THAT I CAN CHECK APPLICATION AND BUSINESS PERFORMANCE.  |
| BV:  | 500 | CP:  | 5 |
| ACCEPTANCE CRITERIA |   |   |   |   |   |
| SELECT REPORTS |
| Select to and from date |
| Select Region (can select all) |
| Generate Report |
| Download Report in EXCEL |

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| **User Story no.**  | 40 | **Task:**  | 2 | **Priority:**  | HIGH |
| AS A BUSINESS OWNER |
| I WANT TO UPDATE PAYMENTS FOR RESTAURANTS AND DELIVERY BOYS |
| SO THAT I PROCESS REQUIRED PAYMENT.  |
| BV:  | 500 | CP:  | 5 |
| **ACCEPTANCE CRITERIA** |   |   |   |   |   |
| SELECT REPORTS |
| Select to and from date |
| Select Region (can select all) |
| CHECK PENDING PAYMENT |
| VERIFY |
| PROCESS PAYMENT |

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

Business Value and Complexity Points

**Answer 3-** An **epic** is a large body of work that can be broken down into smaller tasks or user stories in Agile development. An EPIC is a set of related user stories. They are also considered as a really big stories.

Examples of EPIC:

1st EPIC: Customers can order for from any part of the city using Scrum Foods Delivery Applications.

**User stories features:**

1) As a user, I want to find nearby restaurants so that I can get food delivered to my address

2) As a user I want to add/remove multiple food items so that I can specify what I want to order

3) As a user I want to know how much time food delivery will take so that I know how much I have to wait

4) As a user I want can call the restaurant to check progress

5) As a user I am able to pay COD for my food order

**Business value: 500**

**Complexity points: 13**

2nd EPIC: Customer can search a restaurant of using application.

 **User stories features:**

1) As a user I want to filter restaurants by cuisine and/or restaurant type so that I can narrow down my list

2) As a user I want to be able to filter veg and non veg restaurants so that I can specify my preferences

**Business value: 500**

**Complexity points: 13**

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

**Answer 4-** **Complexity points:** Complexity or story point is a metric used in agile project management and development to estimate the difficulty of implementing a given user story, which is an abstract measure of effort required to implement it. In simple terms, a story point is a number that tells the team about the difficulty level of the story. Difficulty could be related to complexities, risks, and efforts involved.

We can divide user stories in pointers, also **called FABINICO SERIES**, in which we divide user stories in different pointers, E.g. 1 pointer means the team will complete the work in 1 day. 2 pointer means the team will complete the work in 2 Day.

Very Simple user story – 1 pointer

Simple user story – 2 pointer

medium user story – 3 pointer

Semi complex user story – 5 pointer

complex user story – 8 pointer

super complex user story – 13 pointer

We cannot assign 8 or 13 user story and we call them as an EPIC.

**BUSINESS VALUE:** Business Value is how important is this feature (user Story) to the Business. This is estimated by Scrum Currency Notes. We provide Rs1000, Rs500, Rs100, Rs50, Rs20 and Rs10 Denominations. These estimations are done by the Stakeholders (Clients). If different values are selected by the stakeholders, then discussions will happen, and they agree to one BV value to that user story.

Business value has tangible and intangible benefits a business can get from the capabilities of a product. While mostly considered financial, other aspects can't be measured in terms of dollars but are equally important to determining business value.

**Question 5** –Explain about Sprint– 5 Marks

**Answer 5**-A sprint is a scrum based agile methodology concept that is similar to an iteration. A sprint is time boxed to deliver a specific set of user stories. During sprint planning the business customer or product owner specifies the user story priority and the development team commits to the scope of a given sprint. During the sprint the user stories can be removed from the sprint scope but new stories cannot be added. This allows project team to focus on the goals of the sprint and deliver rapidly.

In short we can say sprint is a period that team decides to deliver their objective. Normally a sprint period will be 2 weeks but may extend to 4 weeks.

Scrum is a subset of sprint. Suppose a sprint is of 2 week then the scrum will be of 1 day.

Scrum is a light weight and simple agile method. Scrum is an iterative development methodology used to manage software projects. In scrum based projected there is not any specific project manager directing project team tasks, the team is self-directed with co-located team members relying on communication over documentation for effective project delivery. Scrum can be implemented either at the beginning of the project or when the project is falling behind schedule.

In SCRUM we have

**1) Scrum team** – project resources are grouped as scrum teams which comprises of BA’s developers, testers, Each team size will an average of 7-8 team members.

**2) Product owner** – he will decide what needs to be there in the product and will be responsible for how the product has to be.

**3) Scrum master** – He will monitor the performance of the team within the sprint.

**Meetings:**

**1) Sprint planning meeting -** this happens at the beginning of each sprint and the team decides what they will be delivered in the sprint.

**2) Daily SCRUM meeting** – this meeting happens every day just to answer 3 questions

a) what have you done today

b) what will you do tomorrow

c) are there any problems in carrying out the required task.

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

**4) Sprint retrospective meeting –** this meeting happens at the end of the sprint where team will answer 3 questions.

a) what went will in the sprint

b) what did not go well

c) what are the required areas of improvement in the next sprint.

What is sprint Duration: 2 Weeks - Your Sprint Value – 2 weeks.

What is scrum Duration: 1 day – Your Scrum Value - 1 day.



**Question 6**– Explain Product backlog and sprint back log– 5 Mark**s**

**Answer 6**- **Product backlog:** A product backlog is a prioritized list of work for the development team that is derived from the roadmap and its requirements. The most important items are shown at the top of the product backlog so the team knows what to deliver first. The development team doesn't work through the backlog at the product owner's pace and the product owner isn't pushing work to the development team. Instead, the development team pulls work from the product backlog as there is capacity for it. Product backlog contains all stories -all requirements along with completed BV and CP.

**Sprint Back log:** A sprint backlog is the set of items that a cross-functional product team selects from its product backlog to work on during the upcoming sprint. Typically, the team will agree on these items during its sprint planning session. In fact, the sprint backlog represents the primary output of sprint planning.

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

**Answer 7**- Impediments are barricades, hurdles or obstacles. 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 logs:**

1) Sick Scrum Team member

2) Slow response from customer for any query raised.

**Question 8** – Explain Velocity of the Team – 1 Marks

Velocity – How many CP is covered in this sprint

**Answer 8-** Velocity is a key Scrum metric that measures the amount of work a team can deliver during a sprint. In **simple terms** we can explain velocity as **how many CP are completed in this sprint is called velocity.**

For calculating CP for the above sprint backlog all the task in completed columns I have made total of all the CP value against respective user story.

In the above sprint backlog total CP value is coming to 53.



**Question 9** – Draw Sprint Burn Charts and Product Burn Down Charts– 3 Marks

**Answer 9-** **Sprint burn down chart** will always showcase us total number of CP covered in a sprint.

**Product burn down chart** it shows the graph of CP covered in daily basis.

Ex. In sprint if we will be selecting 2 Weeks or 4 Weeks, so if it is a 2 Weeks’ time so in product burn down chart we show it as a 14 Days’ time.

 **SPRINT BURN DOWN CHARTS**



**PRODUCT BURN DOWN CHART**



**Question 10** – Explain about Product Grooming – 2 Marks

**Answer10**-Grooming (or refinement) is a meeting of the Scrum team in which the product backlog items are discussed and the next sprint planning is prepared.

Product grooming is critical in product management because it means keeping the backlog up to date and getting backlog items ready for upcoming sprints.

Backlog grooming is often named pre-planning. The product owner and team representatives arrange it in the mid-sprint time. In this case, planning and refinement meetings alternate but happen on the same day each week. That provides an effective rhythm for the entire team.

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

**Answer11**-

**Product owner:** He will decide what needs to be in the product and will be responsible for how the product has to be. He will regularly interact with the customers and BA’s. This role can be played by BA or any person who worked for end users for a long time or customer himself.

**Key roles and responsibilities:**

1) Defining the vision

2) Product backlog management.

3) Prioritizing needs.

4) Overseeing development stages

5) Anticipating client needs.

6) Evaluating product progression at each stage.

**Scrum Master:** He will monitor the performance of the team within the sprint. Team will raise all their issues to scrum master and he will run to look for the answers. This role can be played by any person in team. Normally BA’s play this role.

**Key roles and responsibilities:**

1) Implement Project Management/Best Practices

2) Keep all Parties on Track and Informed

3) Coach Team Members

4) Host Daily Stand-up Meetings

5) Assist the Product Owner with the Product Backlog

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

**Answer12- Meetings:**

**1) Sprint Planning meeting** - this happens at the beginning of each sprint and the team decides what they will be delivering in the sprint.

2) **Daily SCRUM meeting** – this meeting happens every day just to answer 3 questions

a) what have you done today

b) what will you do tomorrow

c) are there any problems in carrying out the required task.

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

**4) Sprint retrospective meeting** – this meeting happens at the end of the sprint where team will answer 3 questions.

a) what went will in the sprint

b) what did not go well

c) what are the required areas of improvement in the next sprint.

**Question 13** – Explain Sprint Size and Scrum Size– 2 Marks

**Answer13-** In Scrum, **Sprint size** refers to the length of a sprint, and **Scrum size** refers to the number of people on a Scrum team.

**Sprint size**

* The length of a sprint can range from 1–4 weeks.
* Shorter sprints are better for faster feedback and reducing risk.
* Longer sprints are better for stability, but they reduce adaptability.
* The most common sprint length is two weeks.

**Scrum size**

* The Scrum Guide suggests that a Scrum team should have 3–9 people, excluding the Scrum Master and Product Owner.
* For large enterprise projects, the ideal Scrum team size is 7 people.
* For smaller projects, the ideal Scrum team size is 4 people.

**Factors that affect sprint size and Scrum team size**

* **Project complexity**: Larger, more complex projects typically require more sprints.
* **Business needs**: If the business needs to change direction quickly, a shorter sprint is better.
* **Investment risk tolerance**: A shorter sprint has less investment risk.
* **Team velocity**: How quickly the team can complete work affects the number of sprints needed.

|  |
| --- |
| **Scrum size of SCRUM FOODS – 10** |
| Scrum Master: **Satya Rathnakar**  |
| Product Owner: **Shivam Mehrotra** |
| Scrum Developer 1: **Linesh Vegad**  |
| Scrum Developer 2: **Yogender**  |
| Scrum Developer 3: **Gowri**  |
| Scrum Developer 4: **A.Lakshmikala**  |
| Scrum Developer 5: **Madhuri**  |
| Scrum Developer 6: **Varun**  |
| Scrum Developer 7: **Rakesh**  |
| Scrum Developer 8: **Rajesh**  |

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

**Answer14- Definition of Ready (DoR):** It is defined so as to keep track of the items at the top of the Product Backlog that has fulfilled certain pre-conditions and **can be added to a Sprint** so that the Developers could complete it before the end of the Sprint.

**Definition of Done(DoD):** It is defined as a checklist for all the Sprint Backlog items that have passed all the conditions and acceptance criteria and are **ready to be accepted by the users or teams**.

**Question 15** – Explain Prioritization Techniques and MVP – 3 Marks

**Answer15-** There are 2 techniques using which we can do requirement prioritization:

1) 100$ test

2) MOSCOW

100$ test:

The 100-dollar method is great for prioritizing a manageable requirements pool with multiple or even many stakeholders. The approach is simple: each stakeholder or voter receives 100 “dollars” or points. Requirements can be “purchased” with this limited budget. The stakeholder himself decides how much the realization of a specific requirement is worth to him. If all dollars or points are spent, the prioritization of the stakeholder is finished. All other stakeholders also go shopping with their dollars and prioritize the requirements that are important to them.

EG:

|  |  |  |
| --- | --- | --- |
| **Requirement** | **BV** | **Act. Value** |
| Req 1 | 100$ | 50$ |
|   |   |   |
| Req. 2 | 100$ | 100$ |
|   |   |   |
| Req 3 | 20$ | 50$ |

the requirement receives $500 or more in total: “Must”

the requirement will receive between $200 and $500 in total: “Should”

the requirement receives between $50 and $200 in total: “Could”

the requirement receives $50 or less in total: “Would”

**MoSCoW:** MoSCoW prioritization, also known as the MoSCoW method or MoSCoW analysis, is a popular prioritization technique for managing requirements.

The acronym MoSCoW represents four categories of initiatives: must-have, should-have, could-have, and won’t-have, or will not have right now.

**MVP:**The MVP approach is based on the premise that you can provide sufficient customer value by delivering minimal features that early adopters will use. You can then collect feedback that will enable you to build a better product that will resonate with future users.

**Question 16** – Difference between Business Analyst n Product Owner – 3 Marks

**Answer16- Product owner:** The Product Owner is the face of the product as they envision the product before it is developed. They are the main person responsible for the performance of a product in the market. Their primary role is to work directly with the business to achieve project-related knowledge and give the team justification about why certain features are built. They are expected to provide the vision of the product without having to go into the technical details of the product as they become the voice of the customer. They anticipate the needs of the customer and make the product vision clear such that the Developers understands what they are expected to deliver. The Scrum Guide describes Product Owners as the party that is responsible for maximizing the business side of the project. Their role also includes ensuring that any product increment delivers value to the product and the business, industry, and as well as the customers.

**Key Responsibilities:**

* Defining the vision
* Product Backlog Management
* Prioritization of Needs
* Anticipating Client needs
* Overseeing Developmental Stages

**Business Analyst:** A Business Analyst is a professional who is responsible for aligning the customer's needs with the product's outcome. The primary role of the Business Analyst is to make sure that the team develops the products which are requested by the customer and suitable for the user. The Business Analyst works effectively in reducing the gap between the technical team and the business team of the organization and hence looks for any bugs or loopholes and analyses the impact. The Business Analyst is more likely to be the person who aligns themselves with the technical or Agile side of the team. They are trained highly in technical analysis and design and may make them business knowledgeable than a Product Owner but are more technically skilled.

Business Analysts are the investigators, fact-checkers, and the facilitators who work closely with the Product Owners and determine the scope of the project and envision the required resources and the standards of the project. A Business Analyst is hired to make sure that the resulting product will effectively meet true business needs and fit accurately with the business environment.

**Key Responsibilities:**

* Research and Requirements Elicitation
* Documentation of requirements
* Communication and Management of Requirements
* Assessment of solution and Validation

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

**Answer17-**

|  |
| --- |
| shivam MehrotraAddress · 9823931969Email ·shivammehrotra2003@yahoo.co.in |
| Motivated and forward thinking product owner with 3+ years of experience in a dynamic environment. Eager to support team with leadership and guidance over a wide range of product development efforts. |

# Experience

|  |
| --- |
| Jan 23 to Jan 25Agile product owner-AccentureActed as liaison between business sales and IT teams to refine the product and incorporate features based on market demands.Partnered with IT and Product leadership to drive and manage the solution development process and ensure the product team understands the direction and vision.Collaborated with team 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 lifecycle.Translated features into user stories within the team’s backlog while managing, ranking and prioritizing this backlog to reflect stakeholder’s requirements. **Key achievement:**Effectively negotiated sprint goals with the team which resulted in slashing delivery time by 20% in a single quarter. |
| Nov 2022 to Dec 2023 Scrum product owner, CapeGEminiCollaborated with stakeholders to understand the business problem statements and convert them into user stories.Articulated product vision and user stories in a way clearly understandable to development teams.Managed backlog of user stories for two products simultaneously.Established user story acceptance criteria and refined stories with Scrum teams.Created sprint release plans with input from development teams.Apply agile methods and process to promote a disciplined and transparent management process.**Key achievement:**Planned and estimated 2 weeks’ sprint in a realistic yet time efficient manner that allowed the teams to deliver 97% of MVP according to the company roadmap. |

# Education

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| --- |
| 2009-11PGDM(Marketing), Sinhgad institute of MANAGEMENT, PUNE |
| 2009-11Masters iN computer management, Savitribai phule UNIVERSITY, PUNE. |

# Skills

|  |  |
| --- | --- |
| * List your strengths relevant for the role you’re applying for
* List one of your strengths
 | * List one of your strengths
* List one of your strengths
* List one of your strengths
 |

# declAration

I hereby declare that above information is true to the best of my knowledge.

Shivam Mehrotra

Pune,03-02-2025