Capstone Project -2

1. write Agile Manifesto

Agile has 4 values

* Individuals and interaction over process and tools
* Working software over comprehensive documents
* Customer collaboration over contact negotiations
* Responding to change over following a plan

12 Principles of agile software

* Satisfy the customer through early and continuous delivery of valuable software
* Welcome changing requirements, even late in development. Agile processes harness change for the customers competitive advantages
* Deliver working software frequently, for a couple of weeks to a couple of months with a preference to the shorter time scale
* Business people and developers must work together daily through out the project
* Build project around motivated individuals. Give them the environment and support they need, and trust them to get the job done.
* The most efficient and effective method of conveying information to and within a development team is face to face conversation
* Working progress is the primary measures of progress
* Agile processes promote sustainable development. The sponsors, developers and user should be able to maintain a constant pace indefinitely
* Continuous attention to technical excellence and good design enhances agility
* Simplicity the art of maximizing the amount of work not done is essential
* The best architecture requirement and design emerges from self-organising team
* At regular interval the team reflects on how to become more effective, then tunes and adjusts its behaviour accordingly.

1. Write minimum 40 User stories and their Acceptance Criteria along with their BV and CP

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| User Story Number :1 | Task:2 | | Priority: highest |
| As a delivery boy, I want to register in scrum food so that I can deliver order | | | |
| BV: 500 | | CP:02 | |
| Acceptance criteria  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 Number :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 Number: 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 Number: 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:02 | |
| Acceptance criteria  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 Number: 5 | Task:2 | | Priority: highest |
| AS AN ADMIN I WANT TO VIEW THE RESTAURANTS SO THAT I CAN APPROVE THEIR REGISTRATION | | | |
| BV: 500 | | CP:02 | |
| Acceptance criteria  List of restaurants, select Restaurants, verify restaurant details, approve button, reject button, notification to the restaurant | | | |

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| User Story Number: 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 Number: 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:01 | |
| Acceptance criteria  1. Display delivery boy mobile number  2. Display delivery boy name in tracking field  3. Display delivery boy picture is playing price in the list of menu items | | | |

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| User Story Number: 8 | Task:2 | | Priority: Medium |
| AS A RESTAURANT OWNER I WANT TOPROVIDE TIME SLOTS SO THAT CUSTOMER CAN CHECK OPENING AND CLOSING HOURS | | | |
| BV: 100 | | CP:02 | |
| Acceptance criteria  1. Click on restaurant dashboard  2. Add from time to time  3. Click on submit  4. Display updated successfully | | | |

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| User Story Number: 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 | | | |

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| User Story Number: 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:03 | |
| 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 Number: 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:03 | |
| 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 Number: 12 | Task:2 | | Priority: High |
| As a hungry user, I want to browse nearby restaurant so that I can order the food | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Every restaurant displays its name, cuisine and the rating given by the user | | | |

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| User Story Number: 13 | Task:2 | | Priority: High |
| As a user I want to browse different restaurant and menu so that I can find a place to order food | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Shows firstly that the restaurant is open and close and display there menu with ratings | | | |

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| User Story Number: 14 | Task:2 | | Priority: High |
| As a customer I want to search for a specific food so that I can find a specific place to order the food | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  App should display relevant restaurant and dishes matching the query | | | |

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| User Story Number: 15 | Task:2 | | Priority: High |
| As a customer I want to filter the restaurant as per my choice | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Filter restaurant by cuisine type and dietary option veg and non veg | | | |

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| User Story Number: 16 | Task:2 | | Priority: High |
| As a customer I want to track my order so that I can know the time of the delivery | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  App should show the real time update and the order status | | | |

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| User Story Number: 17 | Task:2 | | Priority: High |
| As a user I want to rate the restaurant from where I have ordered the food | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Can see reviews from other user to help make dining decision | | | |

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| User Story Number: 18 | Task:2 | | Priority: High |
| As a user I want to save favourite restaurant and dishes so that I can order from my fav restaurant | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Can see my list of fav restaurant when I order in future | | | |

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| User Story Number: 19 | Task:1 | | Priority: High |
| As a user I want to see my past order history so that I can order the same food again | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Can see restaurant, order item and the price | | | |

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| User Story Number: 20 | Task:3 | | Priority: High |
| As a user I want to receive notification | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Notification for order confirmation, dispatch and delivery | | | |

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| User Story Number: 21 | Task:3 | | Priority: Medium |
| As a customer I want to contact customer support  So that I ca raise the issues | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Customer support section with contact information | | | |

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| User Story Number: 22 | Task:2 | | Priority: high |
| I want to receive and manage order so that I can update order status | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Manage orders and notifying the restaurant about the upcoming order | | | |

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| User Story Number: 23 | Task:2 | | Priority: high |
| I want to access customer review so that I can view and respond to customer | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Owner can address feedback from the customer | | | |

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| User Story Number: 24 | Task:1 | | Priority: Medium |
| As a customer I want to apply promocodes and discount | | | |
| BV: 100 | | CP:01 | |
| Acceptance criteria  Activate promo code | | | |

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| User Story Number: 25 | Task:1 | | Priority: Medium |
| As a delivery boy I want to view the order so that I can accept the order | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Order visibility, real time update, order details, order navigation and order completion and confirmation | | | |

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| User Story Number: 26 | Task:5 | | Priority: Medium |
| As a delivery boy I want to login so that I can accept the order | | | |
| BV: 200 | | CP:03 | |
| Acceptance criteria  User authentication, error handling, password and compatibility and Usability | | | |

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| User Story Number: 27 | Task:5 | | Priority: Medium |
| As a delivery boy I want to see the feedback given by the customer | | | |
| BV: 200 | | CP:03 | |
| Acceptance criteria  Access the feedback system, feedback visibility, feedback sorting and filtering and user support | | | |

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| User Story Number: 28 | Task:5 | | Priority: Medium |
| As a admin I want to see the feedback so that I can know the customer feedback | | | |
| BV: 200 | | CP:02 | |
| Acceptance criteria  Access the feedback system, feedback visibility, feedback sorting and filtering and user support | | | |

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| User Story Number: 29 | 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 the feedback system, feedback visibility, feedback sorting and filtering and user support | | | |

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| User Story Number: 30 | Task:5 | | Priority: Medium |
| As a admin I want to know the issue so that I can resolve them | | | |
| BV: 200 | | CP:03 | |
| Acceptance criteria  Display issue section | | | |

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| User Story Number: 31 | Task:5 | | Priority: Medium |
| As a admin I want to know the issue so that I can resolve them | | | |
| BV: 200 | | CP:03 | |
| Acceptance criteria  Display issue section | | | |

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| User Story Number: 32 | Task:5 | | Priority: Medium |
| As a admin I want to know the issue so that I can resolve them | | | |
| BV: 200 | | CP:03 | |
| Acceptance criteria  Display issue section | | | |
| User Story Number: 33 | Task:3 | | Priority: High |
| As a regional admin I want to know the issue so that I can resolve them | | | |
| BV: 200 | | CP:03 | |
| Acceptance criteria  Select report, to and from date and generate report | | | |

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| User Story Number: 34 | Task:2 | | Priority: High |
| As a restaurant owner I want to know the delivery boy | | | |
| BV: 200 | | CP:03 | |
| Acceptance criteria  ID proof | | | |

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| User Story Number: 35 | Task:2 | | Priority: High |
| As a restaurant owner I want to know the delivery boy contact number | | | |
| BV: 50 | | CP:01 | |
| Acceptance criteria  Display delivery boy mobile number | | | |

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| User Story Number: 36 | Task:2 | | Priority: High |
| As a restaurant owner I want to provide the time slot so that customer can check opening and closing hours | | | |
| BV: 100 | | CP:02 | |
| Acceptance criteria  Click on restaurant dashboard, add from time to time and display update successfully | | | |

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| User Story Number: 37 | Task:3 | | Priority: High |
| As a user I want to receive notification so that I can | | | |
| BV: 100 | | CP:02 | |
| Acceptance criteria  Notification for order confirmation | | | |

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| User Story Number: 38 | Task:1 | | Priority: Medium |
| As a customer I want to contact customer support | | | |
| BV: 100 | | CP:02 | |
| Acceptance criteria  Customer support section | | | |

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| User Story Number: 39 | Task:4 | | Priority: Medium |
| As a customer I want to view order so that I can cancel it | | | |
| BV: 100 | | CP:02 | |
| Acceptance criteria  Order status, method of cancellation, refund policy | | | |

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| User Story Number: 40 | Task:4 | | Priority: high |
| As a regional admin I want 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 and user friendly interface | | | |

1. What is epic? Write 2 epics

In Agile an **epic** is a large body of work that can be broken down into smaller tasks called user stories. Epics typically represent high-level features, goals, or initiatives that span multiple sprints or development cycles.

The two epics are

* RESGIATRATION:

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

* LOGIN:

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

1. What is the difference between BV and CP

The difference between BV and CP

**BV also known as Business value which** represents the importance or impact a feature, user story, or task brings to the business or stakeholders. It is typically assigned by the product owner or business stakeholders based on factors like revenue generation, customer satisfaction, risk reduction, or strategic alignment. A higher BV means the feature is more valuable to the business and should be prioritized accordingly.

**CP** (also known as Complexity Points or Story Points) quantifies the effort, difficulty, and technical complexity required to implement a feature. The development team estimates CP using techniques like Planning Poker, considering aspects such as coding effort, unknowns, dependencies, and testing complexity.

While BV helps determine **what should be prioritized**, CP helps estimate **how much effort is required** to complete the work. Teams often use the **BV/CP ratio** to find high-value tasks that require relatively lower effort, ensuring maximum impact with optimized workload distribution.

1. Explain about Sprint

A **Sprint** is a time-boxed iteration in Agile development, typically lasting **two weeks** (though it can range from one to four weeks, depending on the team). The goal of a Sprint is to deliver a potentially shippable product increment. In sprint the team works on a set of product backlog items

**Scrum**: A framework that structures how work is done within a Sprint. It includes roles (Scrum Master, Product Owner, Developers), events, and artifacts to ensure smooth collaboration. A **Scrum** refers to the **daily stand-up meeting**, which typically lasts **15 minutes** rather than a full day. It is held every day during a Sprint to track progress and remove blockers.

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| PBI | Tasks | WIP | Done |
| Registration | 3 | 2 | 1 |
| Login | 2 | 2 | 0 |
| Order food | 3 | 0 | 3 |
| Make payment | 3 | 3 | 0 |
| Track delivery | 3 | 3 | 0 |

1. Explain Product backlog and sprint back log

The Product Backlog is a prioritized list of features, enhancements, bug fixes, and technical tasks required for a product. Managed by the Product Owner, it ensures alignment with business goals and customer needs. Continuously evolving, it includes user stories or epics that provide high-level functionality descriptions. For example, an e-commerce product backlog may contain items like “Implement customer reviews” or “Enhance payment security.” As a living document, it adapts based on feedback, market trends, and priorities.

The Sprint Backlog is a more detailed, sprint-specific subset of the product backlog. Created during Sprint Planning, the Development Team selects high-priority tasks to complete within a two to four-week sprint. These tasks are broken down into actionable steps, ensuring focus and commitment. Unlike the evolving product backlog, the sprint backlog is fixed for the sprint duration, though minor adjustments can be made. For instance, a “User Profile Update” feature may include tasks like “Design update form” or “Implement database changes.” The team tracks progress daily through stand-up meetings.

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| **Product Backlog** | **Sprint Backlog** |
| Contains all planned work for the product | Contains selected tasks for a specific sprint |
| Covers the entire product lifecycle | Focuses only on the current sprint |
| Managed by the **Product Owner** | Managed by the **Development Team** |
| High-level user stories, features, and bug fixes | Detailed tasks needed to complete selected backlog items |
| Continuously updated and reprioritized | Fixed for the duration of the sprint (with minor adjustments) |
| Long-term, evolving document | Short-term, sprint-specific list |
| Broad, conceptual descriptions of work | Specific, detailed breakdown of tasks |
| Can be modified anytime | Rarely changes during the sprint |

1. What is impediments log? write 2 impediments

An **Impediments Log** is a documented list of obstacles, blockers, or challenges that hinder the progress of a project or workflow. It helps teams track and address issues that impact productivity, ensuring continuous improvement.

The two impediments are

Technical Blocker: API is not available, delaying integration.

Dependency Delay: A third-party service provider has not delivered a required component.

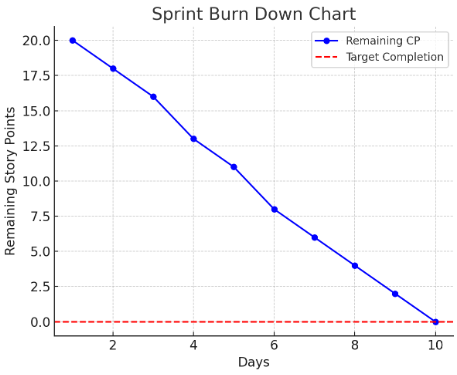
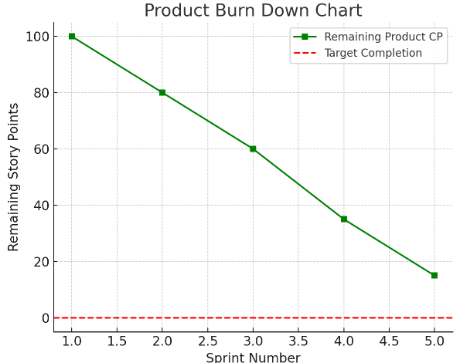
1. Explain Velocity of the Team

Velocity measures the average number of story points completed per Sprint. It helps teams forecast workload capacity and predict how many features can be delivered in future Sprints.

1. Draw Sprint Burn Charts and Product Burn Down Charts

**Sprint Burn Down Chart:** Shows how the remaining story points decrease over the sprint duration (10 days), indicating steady progress.

**Product Burn Down Chart:** Represents the overall backlog reduction over multiple sprints, demonstrating how the project moves toward completion.



1. Explain about Product Grooming

**Product Grooming**, also known as **Backlog Grooming or Refinement**, is an ongoing Agile process where the development team reviews and refines the product backlog to ensure it is well-organized, prioritized, and ready for upcoming sprints. During grooming sessions, the team clarifies user stories, defines acceptance criteria, estimates effort, and identifies dependencies or potential blockers. This process helps maintain a clean and structured backlog by removing obsolete items and adjusting priorities based on business needs. Effective product grooming ensures that the development team has a clear understanding of tasks, leading to smoother sprint planning, improved efficiency, and better workload management.

1. Explain the roles of Scrum Master and Product Owner

**Scrum Master**

The **Scrum Master** is responsible for facilitating the Scrum process, ensuring the team follows Agile principles and removing obstacles that hinder progress. Their key responsibilities include:

* Coaching the team on Agile best practices and ensuring adherence to Scrum ceremonies.
* Removing impediments that may slow down the development process.
* Promoting collaboration between the team, Product Owner, and stakeholders.
* Shielding the team from distractions to maintain focus on sprint goals.
* Continuously improving team performance through retrospectives and process optimizations.

**Product Owner**

The **Product Owner** is responsible for maximizing the value of the product by managing the product backlog and aligning development with business objectives. Their key responsibilities include:

* Defining and prioritizing the product backlog based on customer needs and business goals.
* Ensuring user stories are well-defined, clear, and ready for development.
* Collaborating with stakeholders to gather feedback and refine requirements.
* Making critical decisions about the product’s direction and scope.
* Working closely with the development team to ensure a shared understanding of backlog items.

1. Explain all Meetings Conducted in Scrum Project

In a **Scrum Project**, several key meetings (ceremonies) are conducted to ensure smooth workflow, collaboration, and continuous improvement. These meetings help teams stay aligned, track progress, and adapt as needed.

* **Sprint Planning**

Define what can be delivered in the sprint and how it will be achieved, the meeting is attended by product Owner, Scrum Master, Development Team.  
Key Activities:

* The Product Owner presents prioritized backlog items.
* The Development Team discusses feasibility and estimates effort.
* The team selects tasks to be completed in the sprint and defines a Sprint Goal.
* **Daily Scrum (Stand-up Meeting)**

Synchronize the team’s progress and identify blockers, this meeting is attended by development Team, Scrum Master (optional), Product Owner (optional) and this meeting is maximum of 15 mins  
Key Questions Answered by Each Member:

* What did I complete yesterday?
* What will I work on today?
* Are there any blockers or impediments?
* **Sprint Review**

Demonstrate completed work to stakeholders and gather feedback attended by development Team, Scrum Master, Product Owner, Stakeholders.  
Key Activities:

* The team showcases the work done during the sprint.
* Stakeholders provide feedback.
* Adjustments or improvements are discussed for future iterations.
* **Sprint Retrospective**

Reflect on the sprint and identify ways to improve attended by Scrum Master, Product Owner, Development Team.  
Key Activities:

* Discuss what went well, what didn’t, and how to improve.
* Identify actionable steps to enhance team performance.
* Implement changes in the next sprint.
* **Backlog Grooming (Refinement) - Optional but Recommended**

Ensure the product backlog is well-organized and ready for future sprints, attended by Product Owner, Scrum Master, Development Team.  
Key Activities:

* Prioritizing backlog items.
* Refining user stories by adding details, acceptance criteria, and estimates.
* Removing outdated or irrelevant items.

1. Explain Sprint Size and Scrum Size

Sprint Size refers to the duration and workload capacity of a sprint, determining how much work can be completed within a sprint cycle. It depends on factors such as sprint duration (typically 1 to 4 weeks, with 2 weeks being the most common), team capacity (available working hours per sprint), and task complexity (estimated in story points or hours). The ideal sprint size balances delivering valuable increments while maintaining flexibility for feedback and improvements

Scrum Size refers to the number of team members involved in a Scrum project. A typical Scrum team consists of a Product Owner (responsible for backlog management), a Scrum Master (ensuring Scrum processes are followed), and a Development Team of 3 to 9 members who execute the work. Teams smaller than three may lack efficiency, while those larger than nine may struggle with communication and collaboration. A well-balanced Scrum size ensures smooth workflow, effective teamwork, and optimal productivity.

1. Explain DOR and DOD

**Definition of Ready (DoR)** ensures that a backlog item is well-prepared before the team begins working on it. A task is considered "Ready" when it is clearly defined, has acceptance criteria, dependencies are resolved, and it is estimated and prioritized. This prevents ambiguity and ensures the team can efficiently work on the item without delays.

**Definition of Done (DoD)** establishes the criteria that must be met for a task to be considered complete. It includes code development, testing, bug fixes, documentation updates, and meeting acceptance criteria. A "Done" item should be of high quality and potentially shippable, ensuring consistency and reliability in Agile development.

1. Explain Prioritization Techniques and MVP

**Prioritization Techniques**

Prioritization techniques help teams decide which features, tasks, or backlog items should be worked on first based on value, urgency, and impact. Some common techniques include:

* MoSCoW Method: Categorizes tasks into Must-Have, Should-Have, Could-Have, and Won’t-Have to determine importance.
* Kano Model: Classifies features into Basic Needs, Performance Needs, and Exciting Features based on customer satisfaction.
* RICE Scoring: Uses Reach, Impact, Confidence, and Effort to score and prioritize tasks.
* Value vs. Effort Matrix: Plots tasks based on their business value and effort required, prioritizing high-value, low-effort tasks first.
* WSJF (Weighted Shortest Job First): Used in SAFe (Scaled Agile Framework), it prioritizes tasks based on the cost of delay and job duration.

**Minimum Viable Product (MVP)**

An **MVP (Minimum Viable Product)** is the simplest version of a product that delivers core functionality while requiring minimal effort and resources. The goal of an MVP is to quickly validate an idea, gather user feedback, and iterate based on real-world usage. It includes only the essential features needed to solve a problem and attract early adopters. By focusing on an MVP, teams can test assumptions, reduce risks, and ensure they build a product that meets actual user needs before investing heavily in full development.

1. Difference between Business Analyst n Product Owner

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| **Business Analyst** | **Product owner** |
| Analyzes business needs, gathers requirements, and ensures alignment with company goals. | Owns the product backlog, prioritizes features, and ensures the team delivers value. |
| Focuses on requirement gathering, documentation, and analysis. | Focuses on product vision, backlog management, and stakeholder communication. |
| Works with stakeholders, customers, and technical teams to refine business needs. | Works closely with the development team to ensure backlog items are well-defined and aligned with business goals. |
| Recommends solutions but doesn’t make final product decisions. | Has the authority to make product decisions and prioritize work. |
| Creates business requirement documents (BRD), process flows, and functional specifications. | Manages user stories, backlog prioritization, and acceptance criteria. |
| Works in various project methodologies (Waterfall, Agile, etc.). | Primarily works within Agile and Scrum frameworks. |

1. Prepare a sample Resume of 3yrs exp Product Owner

