

Capstone project 2

Q 1. Agile Manifesto.?

Four main values

Individuals and interactions over processes and tools

Working software over comprehensive documentation

Customer collaboration over contract negotiation

Responding to change over following a plan

12 principles 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. Simplicity--the art of maximizing the amount of work not done--is essential.
11. The best architectures, requirements, and designs emerge from self-organizing teams.
12. At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.

Q 2. User Stories.?

A user story is short and simple sentences that tells Who wants something, What they want and Why they want it.

Types of work in user stories

Epic: A large user story that needs to be broken down.

Theme: A group of related user stories.

Story: A single, small, functional requirement.

User story no: 1	Tasks: 2	Priority : HIGHEST
AS A CUSTOMER I WANT TO REGISTER SO THAT I CAN CREATE AN ACCOUNT ON THE APP		
BV: 500	CP: 3	
ACCEPTANCE CRITERIA Registration screen Text boxes for user name, password, email id, address, phone number Click on registration button Send successful notification to user		

User story no: 2	Tasks: 2	Priority : HIGHEST
AS A CUSTOMER I WANT TO LOGIN SO THAT I CAN ACCESS MY ACCOUNT		
BV: 500	CP: 3	
ACCEPTANCE CRITERIA Login screen Text boxes for username and password Submit button Dashboard views		

User story no: 3	Tasks: 2	Priority : HIGHEST
AS A CUSTOMER		
I WANT TO SEARCH FOR RESTAURENTS		
SO THAT I CAN FIND FOOD OPTIONS NEAR ME		
BV: 500	CP: 3	
ACCEPTANCE CRITERIA		
Customer can search by location		
System display near restaurants		
If no Restaurants found , display “no restaurants available”.		

User story no: 4	Tasks: 2	Priority : LOW
AS A CUSTOMER		
I WANT TO VIEW RESTAURANTS MENU		
SO THAT I CAN CHOOSE FOOD		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA		
Customer select restaurant		
Choose veg or non-veg		
Display the available options		
Customer can choose from that now		

User story no: 5	Tasks: 2	Priority : MEDIUM
AS A CUSTOMER I WANT TO PAY ONLINE SO THAT I CAN COMPLETE MY ORDER INSTALLY		
BV: 200	CP: 1	

ACCEPTANCE CRITERIA Display payment screen Choose payment mode online Payment through card/UPI Send payment successful notification to customer

User story no: 6	Tasks: 2	Priority : MEDIUM
AS A CUSTOMER		
I WANT TO TRACK MY ORDER		
SO THAT I CAN CHECK WHEN IT WILL BE ARRIVED		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA		
Choose my order		
Select Track my order		
Views delivery boy assigned and live location of the delivery boy		

User story no: 7	Tasks: 2	Priority : MEDIUM
AS A CUSTOMER		
I WANT TO CANCEL MY ORDER		
SO THAT I CAN STOP DELIVERY IF NEEDED		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA		
Choose my order		
Select cancel order		
Order cancelled		

User story no: 8	Tasks: 2	Priority : LOW
AS A CUSTOMER		
I WANT TO PROVIDE FEEDBACK OR RATING		
SO THAT I CAN SHARE MY EXPERIENCE		
BV: 500	CP: 2	
ACCEPTANCE CRITERIA		
Go to my order		
Chick on rating		
Select “5 star” , “good teste of food”		
Click on Submit		
Rating successfully submitted		

User story no: 9	Tasks: 2	Priority : MEDIUM
AS A CUSTOMER		
I WANT TO LOGOUT		
SO THAT MY ACCOUNT IS SAFE		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA		
Select account settings		
Click on logout		
Successfully logged out		

User story no: 10	Tasks: 2	Priority : HIGHEST
AS A DELIVERY BOY I WANT TO REGISTER SO THAT I CAN WORK WITH SCRUM FOODS		
BV: 500	CP: 2	

ACCEPTANCE CRITERIA

Registration screen

Text boxes name, email id, phone number , password, address

Click on register

Send successful notification to user

User story no: 11	Tasks: 2	Priority : HIGHEST
AS DELIVERY BOY		
I WANT TO VIEW AVAILABLE ORDERS		
SO THAT I CAN PICKUP NEW DELIVERIES		
BV: 500	CP: 3	
ACCEPTANCE CRITERIA		
View orders		
Display available orders in list		
User select one from that		

User story no: 12	Tasks: 2	Priority : HIGHEST
AS A DELIVERY BOY		
I WANT TO UPDATE ORDER STATUS		
SO THAT CUSTOMER CAN TRACK THEIR ORDER		
BV: 500	CP: 3	
ACCEPTANCE CRITERIA		
Go to home page		
Update Order picked up		
On my way		
Customer and restaurants get updated		

User story no: 13	Tasks: 2	Priority : MEDIUM
AS A DELIVERY BOY I WANT TO VIEW MY FEEDBACKS SO THAT I CAN IMPROVE MY SERVICE		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA Select my order View details Check feedbacks		

User story no: 14	Tasks: 2	Priority : MEDIUM
AS A DELIVERY BOY		
I WANT TO RAISE AN ISSUE		
SO THAT I CAN REPORT A PROBLEM TO ADMIN		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA		
Select report		
Chose the issue facing		
Click on submit		
Admin will review it		

User story no: 15	Tasks: 2	Priority : MEDIUM
AS A DELIVERY BOY I WANT TO VIEW MY DELIVERY REPORTS SO THAT I CAN TRACK MY PERFORMANCE		
BV: 200	CP: 2	

ACCEPTANCE CRITERIA

Select my orders

View details

Check any issues reported

Check customer ratings for your orders

User story no: 16	Tasks: 2	Priority : MEDIUM
AS A DELIVERY BOY		
I WANT TO RECEIVE COD PAYMNETS		
SO THAT I CAN COLLECT CASJ FROM MY CUSTOMER		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA		
Find orders of cod		
Pick up that order		
Collect cash from customer		

User story no: 17	Tasks: 2	Priority : HIGHEST
AS A DELIVERY BOY		
I WANT TO LOGIN		
SO THAT I CAN VIEW MY DASHBOARD		
BV: 200	CP: 2	
ACCEPTANCE CRITERIA		
Click login		
Provide username and password		
Submit		
You can view your dashboard		

User story no: 18	Tasks: 2	Priority : MEDIUM
AS A DELIVERY BOY I WANT TO LOGOUT SO THAT MY SESSION ENDS SAFELY		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA Select settings Choose logout Logged out successfully		

User story no: 19	Tasks: 2	Priority : HIGHEST
AS A RESTAURANT OWNER		
I WANT TO BE REGISTERED		
SO THAT I CAN BE LISTED ON THE APP		
BV: 500	CP: 3	
ACCEPTANCE CRITERIA		
Registration screen		
Text boxes restaurants name, details , menu , address, phone number		
Submit		
Restaurant successfully added		

User story no: 20	Tasks: 2	Priority : HIGHEST
AS A RESTAURANT OWNER I WANT TO VIEW CUSTOMER ORDER SO THAT I CAN PREPARE FOOD		

BV: 500	CP: 3
ACCEPTANCE CRITERIA Order shown with items If any instruction added displayed	

User story no: 21	Tasks: 2	Priority : HIGHEST
AS A RESTAURANT OWNER		
I WANT TO VERIFY DELIVERY BOY		
SO THAT I CAN ENSURE SAFE PICKUP		
BV: 200	CP: 2	
ACCEPTANCE CRITERIA		
Chek the available delivery boy		
Verify details and ratings		
Assign the delivery		

User story no: 22	Tasks: 2	Priority : HIGHEST
AS A RESTAURANT OWNER		
I WANT TO RECEIVE PAYMNETS		
SO THAT I CAN CHECK MY INCOME		
BV: 200	CP: 2	
ACCEPTANCE CRITERIA		
View all orders		
All Payments of the day		
Payments through card/UPI,CASH		
Caluculate the income		

User story no: 23	Tasks: 2	Priority : HIGHEST
AS A RESTAURANT OWNER		
I WANT TO VIEW FEEDBACKS		
SO THAT I CAN IMPROVE QUALITY AND SERVICE		
BV: 500	CP: 3	
ACCEPTANCE CRITERIA		
All orders		
Select any order		
View customer feedback		
Verify it		

User story no: 24	Tasks: 2	Priority : MEDIUM
AS A RESTAURANT OWNER		
I WANT TO RAISE AN ISSUE		
SO THAT I CAN REPORT		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA		
Open settings		
Raise issue		
Admin will report it		

User story no: 25	Tasks: 2	Priority : MEDIUM
AS A RESTAURANT OWNER I WANT TO CLOSE THE RESTAURANT TODAY SO THAT I CANT RECEIVE ANY ORDERS		

BV: 200	CP: 1
ACCEPTANCE CRITERIA Dashboard Select restaurant closed App will updated	

User story no: 26	Tasks: 2	Priority : MEDIUM
AS A RESTAURANT OWNER I WANT TO LOGOUT SO THAT MY ACCOUNT IS SAFE		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA Go to settings Select logout Logged out successfully		

User story no: 27	Tasks: 2	Priority : HIGHEST
AS A ADMIN I WANT TO VIEW THE RESTAURANTS SO THAT I CAN APPROVE THEIR REGISTRATION		
BV: 500	CP: 3	
ACCEPTANCE CRITERIA List of restaurants Verify details Select Approve/reject Submit Restaurants will notified		

User story no: 28	Tasks: 2	Priority : MEDIUM
AS A ADMIN		
I WANT TO TRACK THE REGIONAL RESTAURANTS		
SO THAT I CAN CHECK THE PERFORMANCE		
BV: 200	CP: 2	
ACCEPTANCE CRITERIA		
Click on performance of the restaurant		
Select date to date		
Generate report		
Click on download		

User story no: 29	Tasks: 2	Priority : MEDIUM
AS A ADMIN		
I WANT TO CHECK THE REGIONAL REVENUE REPORT		
SO THAT I BCAN CHECK PERFORMANCE OF THAT AREA		
BV: 200	CP: 2	
ACCEPTANCE CRITERIA		
Select regional dropdown		
View performance of each		
Restaurant, revenue generated		
Download in Excel		

User story no: 30	Tasks: 2	Priority : MEDIUM
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AS A ADMIN	
I WANT TO APPROVE DELIVERY BOY REGISTRATION	
SO THAT CUSTOMERS CAN HAVE SAFE DELIVERIES	
BV: 500	CP: 2
ACCEPTANCE CRITERIA Verify details Check license and RC Select Approve/reject Click submit button Delivery boy gets notified	

User story no: 31	Tasks: 2	Priority : HIGHEST
AS A ADMIN		
I WANT TO RESOLVE THE ISSUES REPORTED		
SO THAT CUSTOMERS STAY SATISFIED		
BV: 500	CP: 2	
ACCEPTANCE CRITERIA		
View the issues reported		
Verify issue		
Find the solution for issues		
Close the issue		
Customer gets satisfied		

User story no: 32	Tasks: 2	Priority : LOW
AS A ADMIN		
I WANT TO LOGOUT		
SO THAT MY ACCOUNT IS SAFE		

BV: 200	CP: 1
ACCEPTANCE CRITERIA Go to settings Click on logout Logged out successfully	

User story no: 33	Tasks: 2	Priority : HIGHEST
AS A BUSINESS OWNER I WANT TO LOGIN SO THAT I CAN VIEW THE REPORTS AND ANALYTICS		
BV: 500	CP: 3	
ACCEPTANCE CRITERIA Login with username and password View reports Select the restaurant Analys reports		

User story no: 34	Tasks: 2	Priority : MEDIUM
AS A BUSINESS OWNER I WANT TO VIEW ISSUES REPORTED SO THAT I CAN MONITER SERVICE QUALITY		
BV: 200	CP: 2	
ACCEPTANCE CRITERIA Issues are listed Issues includes complete details Unresolved issues are highlighted Owner can assign issues to admin		

User story no: 35	Tasks: 2	Priority : MEDIUM
AS A BUSINESS OWNER		
I WANT TO VIEW AND UPDATE PAYMNET OF DELIVERY		
SO THAT THEY ARE COMPENSATED FOR THEIR WORK		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA		
Delivery earnings are calculated based on no of orders		
Owner can approve daily/weekly payments		
Delivery boys get updated once payment done		

User story no: 36	Tasks: 2	Priority : HIGHEST
AS A BUSINESS OWNER		
I WANT TO SEE CUSTOMER FEEDBACK AND RATINGS		
SO THAT I CAN IDENTIFY TOP AND POOR RESTAURANTS		
BV: 200	CP: 2	
ACCEPTANCE CRITERIA		
Dashboard displays average ratings		
Owner can filter and check		
Negative ratings are listed		

User story no: 37	Tasks: 2	Priority : MEDIUM
AS A BUSINESS OWNER I WANT TO MANAGE ADMINS SO THAT I CAN CONTROL AND ACCESSSS		
BV: 200	CP: 1	

ACCEPTANCE CRITERIA

Owner can view list of admins

Can approve/reject admins

Add new admins

User story no: 38	Tasks: 2	Priority : medium
AS A BUSINESS OWNER		
I WANT TO EXPORT FINANCAIL REPORTS		
SO THAT I CAN USE IT TAX FILLING		
BV: 200	CP: 1	
ACCEPTANCE CRITERIA		
Export options Excel PDF		
Owner can select date to date		
Download the reports		

User story no: 39	Tasks: 2	Priority : low
AS A CUSTOMER		
I WANT TO ADD MY ADDRESS		
SO THAT I CAN GET DELIVERY TO MYB ADDRESS		
BV: 200	CP: 2	
ACCEPTANCE CRITERIA		
Select add address		
Text box enter details		
Rule with in radius of 5km		

User story no: 40	Tasks: 2	Priority : LOW
AS A CUSTOMER		
I WANT TO CHANGE MY ADDRESS		
SO THAT I CAN GET CORRECT DELIVERY		
BV: 50	CP: 1	
ACCEPTANCE CRITERIA		
Select change address		
Add new address		
Click submit		
Address added successfully		

Q 3. What is Epic.?

An Epic is a large user story that cannot be completed in a single sprint. It describes a big piece of functionality or a high-level goal, which is later broken down into smaller user stories.

Examples

1. Customer food ordering process

As a customer, I want to search, view and order food from a restaurant so that I can enjoy meal at my location

This epic can be break down into

Customer can register and login

Search restaurants by location

View menu

Add to cart

Make payment

Track order

Give feedback or rating

2. Delivery boy order management

As a delivery boy, I want to manage order, update status, and track my earnings so that I can complete deliveries and get paid.

This epic can be break down into

Delivery boy register and login
View available orders
Accept order
Update status (picked up , on my way)
View customer location
Delivery completed
View my earnings

Q 4. What is the difference between BV and CP.?

BV(business value)	CP(complexity points)
How important the task or feature is for business or customer	How hard or time taking task for a developer
Product owner or clients gives it	Developers gives it
It is used to decide what to do first	It is used to understand the effort needed to finish
Usually points are 1-100 or HIGH/LOW/MEDIUM	Story points are 1,3,5,8,13,20,40,100 and BIG

Q 5. Explain about Sprint.?

A Sprint is a short time (usually 1 or 2 weeks) where the Scrum team works to finish some tasks or features.

Sprint is like a mini project inside a big project.

Sprint is used to work in small steps and show the results quickly.

Sprint time is fixed most commonly 2 weeks and same length every time.

STAGES IN SPRINT

1. Sprint planning – team decide what work to do
2. Daily scrum- daily meetings
3. Work/development – team build the tasks
4. Sprint review- show the work to stakeholder
5. Sprint retrospective – team discuss what went well and what to improve

Example in scrum foods

A 2 week sprint might include

Customer login

Restaurant search

Food order

At the end of the sprint the feature is ready to use

Q 6. Explain Product backlog and sprint back log.?

Product Backlog

Product backlog is a list of all features, tasks or ideas are needed for the entire project.

It created and managed by product owner

Here it include everything like

Customer login

Food ordering

Real time tracking

Payment methods

Feedback system

Sprint Backlog

Sprint backlog is a smaller list taken from the product backlog, selected for this sprint only.

Team picks up what they can complete in next 1-2 weeks

It created during sprint planning

Here it include only sprint 1

Customer registration

Login

Search restaurant

Q 7. What is impediments log?

An Impediments Log is a list of problems or blockers that stop the Scrum Team from doing their work smoothly during a Sprint.

The scrum master is responsible for tracking and removing impediments.

These are usually

Technical issues

Waiting for approval

Lack of access

Dependency on others

Why use of impediments log

To track of issues

To solve problems quickly

To help the team to stay productive

Examples

1. Sprint work is paused due to delay in UI screens from the designer team is not approved yet.

Sol. Scrum master will follow up with product owner or client for immediate approval

2. Developers are unable to access the food ordering API due to missing credentials

Sol. Scrum master will coordinate with API team to provide access

Q 8. Explain Velocity of the Team.?

Velocity is a measurement of how much work the Scrum team can complete in one Sprint

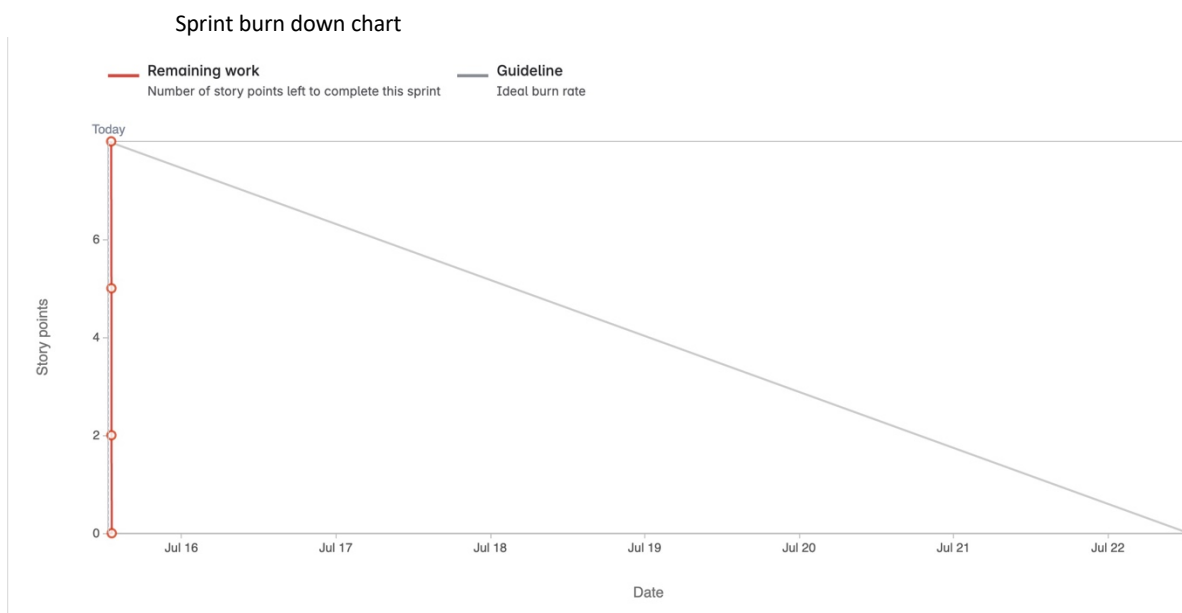
It tells us that how fast the team is working and how many story points the team can deliver.

Velocity = total story points completed in a sprint

Q 9. Draw Sprint Burn Charts and Product Burn Down Charts.?

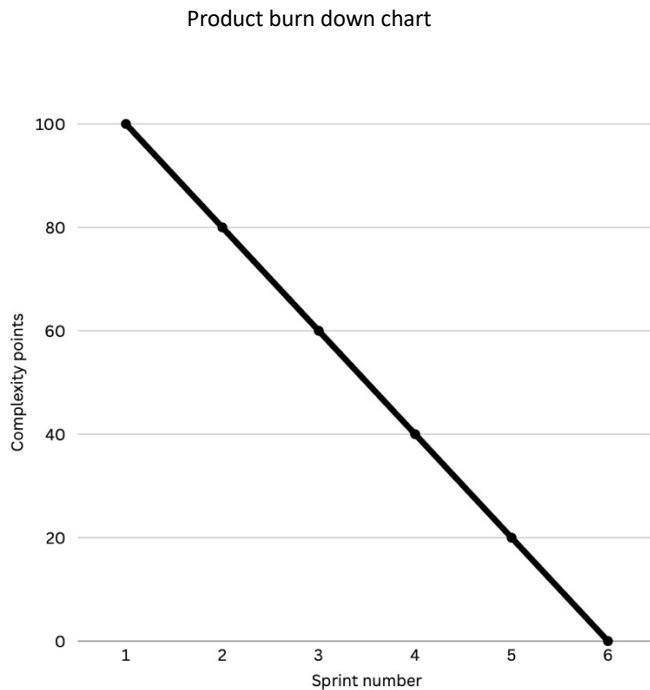
Sprint Burn Down Chart

A Sprint Burndown Chart shows how much work is left to do in the current sprint



Product burn down chart

A Product Burndown Chart shows how much total work is left to complete the entire project across all sprints



Q 10. Explain about Product Grooming.?

Product Grooming is a regular meeting where the Product Owner and the Scrum Team

- Review the Product Backlog
- Update or clarify user stories
- Estimate story points
- Prioritize tasks
- Ready for sprint

Q 11. Explain the roles of Scrum Master and Product Owner.?

Scrum master

Scrum master is like a coach or guide for the scrum team

What do they do

- Help the team follow Scrum rules and processes
- Remove blockers or impediments
- Make sure daily meetings, sprint planning, and retrospectives happen on time
- Protect the team from outside distractions
- Help the team work better and faster

Product owner

Product owner is like a boss of the product, they decide what should be built.

What do they do

- Create and manage the Product Backlog
- Write and explain User Stories
- Decide priorities
- Talk to the client or business to understand what they need
- Accept or reject the work done by the team

Q 12. Explain all Meetings Conducted in Scrum Project.?

1. Sprint planning meeting

They plan what work will be done in the upcoming sprint.

Sprint planning meeting is conducted at the start of each sprint

Who attends:

Product owner, scrum master, scrum developers

What happens:

Choose user story from product backlog

Set sprint goal
Break stories into tasks
Estimate efforts

2. Daily scrum meeting

Conducts daily meeting to quick check-in to see what everyone is doing
Everyday of the sprint (usually 15mins)

Who attends:
Scrum developers

What happens:
What did I do yesterday
What did I do today
Any issues

3. Sprint review meeting

Scrum review shows the work completed in the sprint to stakeholder
Scrum review conducted at end of each sprint

Who attends:
Scrum developers, scrum master, product owner, stakeholder, client

What happens:
Demo the complete work
Take feedbacks
Discuss next steps

4. Sprint retrospective meeting

Sprint retrospective improves the team process by discussing what went well and what not
Sprint retrospective conducted after sprint review, before the next sprint

Who attends:
Scrum developers, scrum master

What happens:
What went well
What didn't went well
What can we do better next time

5. Product backlog grooming

Prepare the product backlog for next sprint
Conducted once per sprint

Who attends:

Product owner, scrum master , scrum developers

What happens:

Add new user stories

Update details

Split large stories

Do Estimate

Q 13. Explain Sprint Size and Scrum Size.?

Sprint size

Sprint size means the duration of the sprint – how many days or weeks the team work before the next sprint starts.

Most commonly 2 weeks per sprint

Scrum size

Scrum size means the number of people in scrum team

According to scrum guidelines

1 product owner

1 scrum master

3-9 scrum developers

Q 14. Explain DOR and DOD.?

DOR – definition of ready

DOR is a checklist to make sure a user story is clear and ready to start before a sprint

Common DOR checklist

User story is clearly written

Acceptance criteria

Dependencies are solved

Estimation done

Team understand the story

DOD – definition of done

DOD is checklist to make sure user story is fully completed when it marked as done

Common DOD checklist
Code written
Code reviewed
Unit testing is done
QA testing
Accepted by product owner
No bugs or issues

Q 15. Explain Prioritization Techniques and MVP.?

Prioritization

Prioritization means decides which feature or tasks are more important and should be used first.

Usually product owner decides based on business needs

Prioritization techniques

1. MoSCoW Method
M- must have
S- should have
C- could have
W- won't have
2. Value vs complexity matrix
Plot stories/features on 2x2 chart
High value low complexity done first
Low value high complexity done last
3. Business value scoring
Assign score to each feature based on how valuable to the business.
High BV- higher priority

MVP- Minimum viable product

MVP is the smallest version of a product that has just enough features to be useable by real customers and get feedback.

Why MVP is important

Save time and cost

Launch fast

Test idea with real users

Q 16. Difference between Business Analyst n Product Owner.?

Business analyst

Business analyst understand the business needs
Acts as bridge between business and technical team
Requirements gather and document requirements

Responsibilities

Talk to clients or user to understand what they want
Prepare documents like BRD, FRD, use cases
Support product owner

Procut owner

Product owner owns the product
Decides what to build and when
Manages the product backlog

Responsibilities

Write user stories and backlogs
Set up vision and goal
Decide what is most important for business
Accept or reject work done by team
Support scrum team

Q 17. Sample resume.?

Soma Navadeep

Address : Hyderabad, Telangana , India

Mail id:navadeepsoma@gmail.com

Mobile No: 8142481011

Career Objective

Product Owner with 3 years of experience in Agile and Scrum environments, skilled in managing product backlogs, writing user stories, collaborating with cross-functional teams, and delivering customer-focused solutions. Seeking to contribute to innovative projects that solve real-world problems.

Experience

Product owner

COEPD IT Solutions, Hyderabad

July 2021- present

Key Responsibilities:

- Owned the product backlog for multiple Agile projects, ensuring prioritization and clarity of user stories
- Conducted sprint planning, backlog grooming, and sprint reviews with Scrum teams
- Translated business requirements into detailed user stories with clear acceptance criteria
- Acted as a bridge between stakeholders and development team to align product vision
- Used tools like JIRA, Confluence, and Trello for tracking, documentation, and collaboration
- Created MVPs and guided development of feature releases based on business value
- Analyzed feedback and customer insights to improve future releases

Projects:

- **Scrum Foods – Online Food Delivery App:**
Led development of MVP including customer login, restaurant search, food ordering, and live tracking
- **Agri Connect – Farmer Market Platform:**
Managed end-to-end backlog grooming and delivery for a multi-user agricultural trading app

Skills

- **Agile & Scrum** – Sprint planning, backlog grooming, velocity tracking
- **Requirement Gathering**
- **Tools** – JIRA, Trello, Confluence, Miro, MS Office
- **Documentation** – BRD, FRD, Acceptance Criteria, User Flows
- Communication and problem solving

Certifications

Certified Scrum Product Owner (CSPO) – Scrum Alliance
Agile Business Analyst – COEPD

Education

Bachelor of technology (BTech) in Information technology
JNTUH, Hyderabad 2017- 2021

Achievements

- Delivered 5+ successful sprints with 100% MVP goal achievement
- Reduced feature delivery time by 30% through effective backlog prioritization

Languages

English, Telugu, Hindi

Declaration

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.