

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Team ID	PNT2022TMID49151
Project Name	Early Detection of Chronic Kidney Disease using Machine Learning
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User Registration	USN-1	As a user, I can register for the application by entering my name, mobile number, email, password, and confirming my password.	10	High	Aravindasamy K Rajesh D Vetriselvan B Vinothkumar A
Sprint-2		USN-2	As a user, I can register for the application through Gmail	5	Medium	Aravindasamy K Rajesh D Vetriselvan B Vinothkumar A
Sprint-1	User Confirmation	USN-3	As a user, I will receive confirmation email once I have registered for the application	10	High	Aravindasamy K Rajesh D Vetriselvan B Vinothkumar A
Sprint-2		USN-4	As a user, I will receive confirmation otp to verify the identity.	5	High	Aravindasamy K Rajesh D Vetriselvan B Vinothkumar A
Sprint-2	Data Collection	USN-5	As a user, I will enter the input data for disease prediction in the form	10	High	Aravindasamy K Rajesh D Vetriselvan B Vinothkumar A

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Provide output to the user	USN-6	As a user, I will get the result of disease prediction in the dashboard.	10	High	Aravindasamy K Rajesh D Vetriselvan B Vinothkumar A
Sprint-3	Data Analysis	USN-7	As the admin, I will develop modules to preprocess and store the data.	10	High	Aravindasamy K Rajesh D Vetriselvan B Vinothkumar A
Sprint-4	Prediction of disease	USN-8	As the admin, I will build a Machine Learning model to predict the disease	10	High	Aravindasamy K Rajesh D Vetriselvan B Vinothkumar A
Sprint-4	Final Delivery	USN-9	Deploy the application in IBM cloud and make it available for use.	10	High	Aravindasamy K Rajesh D Vetriselvan B Vinothkumar A

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022		
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		

Velocity:

We have a 6-day sprint duration, and the velocity of the team is 20 (points per sprint). The team's average velocity (AV) per iteration unit (story points per day)

$$AV = \text{Sprint duration} / \text{velocity} = 20 / 6 = 3.33$$

Burndown Chart

