

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18October 2022
Team ID	PNT2022TMID39690
Project Name	Project – 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 email, password, and confirming my password.	5	High	1. Arthi.S 2. Dhana Lakshmi.R
Sprint-1		USN-2	As a user, I can register for the application through Gmail.	5	High	1. Dilip.G 2. Sivasuriyan.M.S
Sprint-1		USN-3	As a user, I will receive confirmation once i have registered for the application.	5	Low	1. Arthi.S 2. Dilip.G
Sprint-1		USN-4	As a user, I will receive confirmation OTP to verify.	5	Low	1. Dhana Lakshmi.R 2. Sivasuriyan.M.S
Sprint-2	Input Details	USN-5	As a user, I can preprocess the dataset.	5	High	1. Arthi.S 2. Dhana Lakshmi.R
Sprint-2		USN-6	As a user, I can upload the patient details.	10	High	1. Dilip.G 2. Sivasuriyan.M.S
Sprint-2		USN-7	As a user, I can enter the patient details as input.	5	Medium	1. Dhana Lakshmi.R 2. Sivasuriyan.M.S
Sprint-3	Data Analysis	USN-8	As a user, I can do blood test to predict CKD.	5	High	1. Arthi.S 2. Sivasuriyan.M.S
Sprint-3		USN-9	As a user, I can do urine test to identify CKD.	5	High	1. Dilip.G 2. Sivasuriyan.M.S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3		USN-10	As a user, I can do test in glucose level random.	5	Medium	1. Arthi.S 2. Dhana Lakshmi.R
Sprint-3		USN-11	As a user, I can analyse the salt level in blood.	5	High	1. Dilip.G 2. Sivasuriyan.M.S
Sprint-4	Prediction of CKD	USN-12	As a user, I will use Machine Learning Algorithm to predict the disease.	10	High	1. Dhana Lakshmi.R 2. Sivasuriyan.M.S
Sprint-4		USN-13	As a user, I can finally view the list of patients affected by CKD.	10	High	1. Arthi.S 2. Dhana Lakshmi.R

#### 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	20	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:**

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

**Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

