

Project Planning Phase

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

Date	27 October 2023
Team ID	Team-592607
Project Name	Diabetes Prediction Using Machine Learning
Maximum Marks	8 Marks

Team Leader: L.Mohith

Team Member: AS. Vikram Aditya

Team Member: K. Rami Reddy

Team Member: PVS. Uday Kiran

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	Assessment	USN-1	Clinicians use diabetes prediction models to identify patients at high risk of developing diabetes, and to develop personalized prevention and management plans for them.	10	High	PVS. Uday Kiran
Sprint-1	Prevention	USN-2	Patients can use diabetes prediction	5	High	L. Mohith

			models to assess their own risk of developing diabetes, and to make lifestyle changes and get screened for diabetes regularly.			
Sprint-1	Discovery	USN-3	Researchers use diabetes prediction models to develop new insights into the disease, identify new biomarkers for early detection, and develop new treatments and prevention strategies.	5	High	K. Rami Reddy
Sprint-2	Intervention	USN-4	Public health officials use diabetes prediction models to develop strategies for preventing diabetes at a population level, identify communities at high risk, and develop targeted prevention programs.	8	Medium	PVS. Uday Kiran
Sprint-2	Risk	USN-5	Insurance companies use diabetes prediction models to set premiums and identify individuals who are eligible for special programs or services.	6	Medium	K. Rami Reddy
Sprint-2	Wellness	USN-6	Employers use diabetes prediction models to develop workplace wellness programs and identify employees who may be at risk of developing diabetes-related complications.	6	Low	AS. Vikram Aditya
Sprint-3	Treatment	USN-7	Pharmaceutical companies use diabetes	10	Low	AS. Vikram

			prediction models to develop new drugs and treatments for diabetes.			Aditya, L.Mohith
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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	8 Days	12 Oct 2023	19 Oct 2023	15	19 Oct 2023
Sprint-2	20	8 Days	20 Oct 2023	25 Oct 2023	25	25 Oct 2023
Sprint-3	10	4 Days	26 Oct 2023	27 Oct 2023	10	27 Oct 2023

Velocity:

We have a 20-days sprint duration, and the velocity of the team is 15(points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{Sprint Duration}}{\text{Velocity}} = \frac{20}{15} = 1.33$$

Burndown Chart:

