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

Date	26 October 2023
Team ID	Team-593030
Project Name	Diabetes Prediction 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	Project Initiation and Data Collection	USN-1	Gather and curate a diverse dataset of patient health and lifestyle data. Ensure data quality, address missing values, and anonymize data to protect patient privacy	3	High	Charan
Sprint 1	Feature Engineering and Model Selection	USN-2	Identify relevant features for diabetes prediction.Create new features or transform existing ones to improve model performance. Develop and train machine learning models, experiment with various algorithms.	2	High	Charan
Sprint 2	User Interface and Model Integration:	USN-3	Build a user-friendly interface for healthcare providers to input patient data. Integrate the machine learning model into the interface for predictions	2	High	Pranay
Sprint 2	Data Security and Compliance	USN-4	Maintain data security and compliance with healthcare regulations. Test the system thoroughly to ensure data privacy.	3	High	Pranay
Sprint 3	Deployment and Training	USN-5	Deploy the system within the healthcare facility.Provide training to healthcare providers on how to use the system effectively.	3	High	Akash

Sprint 3	Model Validation and Continuous Improvement	USN-6	Validate the model's performance using appropriate metrics and cross-validation techniques.Establish a process for monitoring and updating the model as new patient data becomes available.	2	Medium	Akash
Sprint 4	Ethical Considerations and User Feedback	USN-7	Address ethical concerns related to data bias and fairness.Collect feedback from healthcare providers on system usability and predictions.Iterate on the system based on user feedback to enhance user satisfaction and system performance.	2	Medium	Hari

			for potato leaves classification. Integrate the model's API into a user-friendly web interface for users to upload images and receive potato leaves classification results.			
Sprint 5	Testing & quality assurance	USN-8	conduct thorough testing of the model and web interface to identify and report any issues or bugs. fine-tune the model hyperparameters and optimize its performance based on user feedback and testing results.	3	Medium	Hari

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

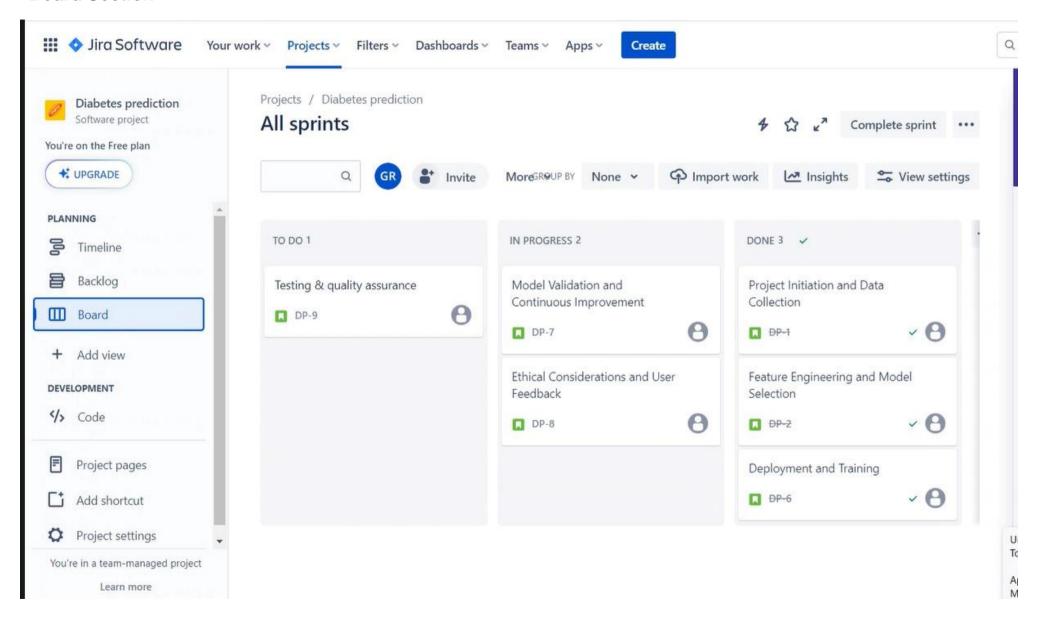| Sprint	Total Story Points	Duration - Sprint Start Date Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	5	3 Days 26 Oct 2023 29 Oct 2023	20	29 Oct 2023
Sprint-2	5	3 Days 29 Oct 2023 31 Oct 2023		
Sprint-3	5	2 Days 1 Nov 2023 3 Nov 2023		
Sprint-4	2	2 Days 3 Nov 2023 5 Nov 2023		
Sprint-5	3	1 Days 5 Nov 2023 6 Nov 2023		

Velocity:

Average Velocity = Sprint Duration / Velocity = 11/5 = 2.2

Burndown Chart:
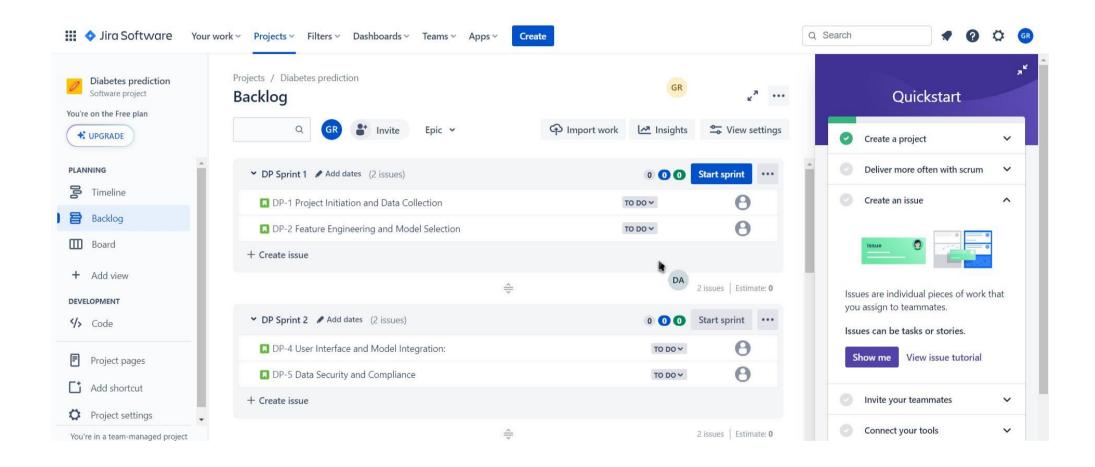
A burndown chart is a graphical representation of work left to do versus time.
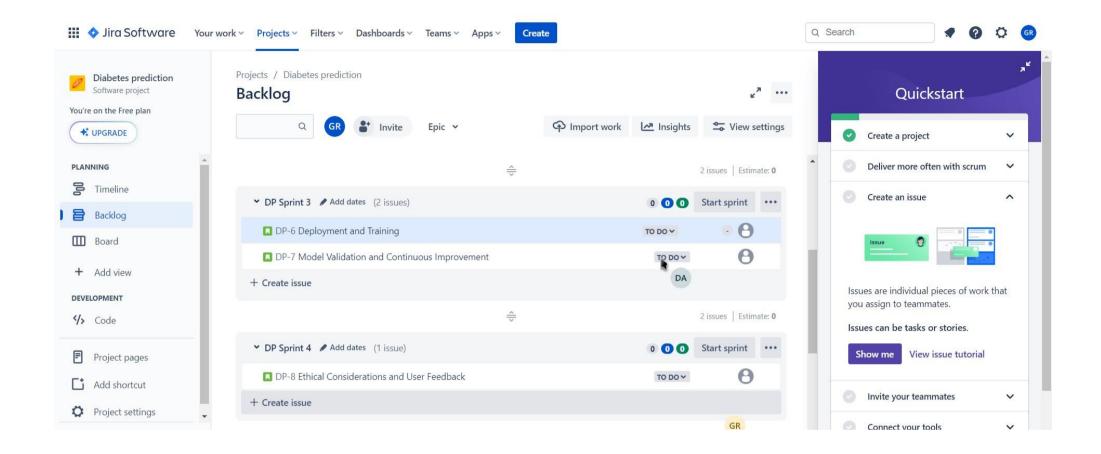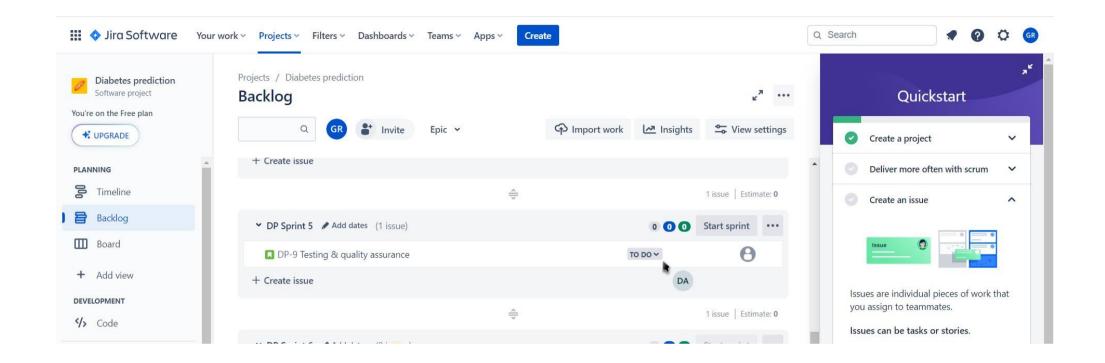
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2 issues | Estimate: 0

⌄ DP Sprint 3   ✏ Add dates   (2 issues)   0 **0** **0**   Start sprint   •••

　　📕 DP-6 Deployment and Training   TO DO ⌄   -   👤

　　📕 DP-7 Model Validation and Continuous Improvement   TO DO ⌄   👤
                                                                                    DA
＋ Create issue

2 issues | Estimate: 0

⌄ DP Sprint 4   ✏ Add dates   (1 issue)   0 **0** **0**   Start sprint   •••

　　📕 DP-8 Ethical Considerations and User Feedback   TO DO ⌄   👤

＋ Create issue

GR

Quickstart

✅ Create a project   ⌄

✅ Deliver more often with scrum   ⌄

✅ Create an issue   ⌃

Issues are individual pieces of work that you assign to teammates.

Issues can be tasks or stories.

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✅ Invite your teammates   ⌄

✅ Connect your tools   ⌄

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+ Create issue

                                                                    ⇕   1 issue   Estimate: **0**

⌄ **DP Sprint 5**   ✎ Add dates   (1 issue)   0 **0** **0**   **Start sprint**   •••

    🔖 DP-9 Testing & quality assurance   TO DO ⌄   👤

+ Create issue   DA

                                                                    ⇕   1 issue   Estimate: **0**

Quickstart

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✅ Deliver more often with scrum   ⌄

✅ Create an issue   ⌃

Issues are individual pieces of work that you assign to teammates.

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Time Line

	EP	OCT	NOV	DEC
Sprints			SCRUM Sprint 1	
⚡ SCRUM-35 Sprint 1				
⚡ SCRUM-36 Sprint 2				
⚡ SCRUM-37 Sprint 3				
⚡ SCRUM-38 Sprint 4				
⚡ SCRUM-39 Sprint 5				
+ Create Epic				