

Project Planning Phase

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

Date	01-11-2023
Project Name	Deep Learning Model for Eye Disease prediction
Maximum Marks	20 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 setup & Infrastructure	USN-1	Set up the development environment with the required tools and frameworks to predict the eye disease.	1	High	Varsha
Sprint-1	development environment	USN-2	Gather a diverse dataset of images containing different types of eye diseases for training the deep learning model.	2	High	Varsha
Sprint-2	Data collection	USN-3	Preprocess the collected dataset by resizing images, normalizing pixel values, and splitting it into training and validation sets.	2	High	Sushma
Sprint-2	data preprocessing	USN-4	Explore and evaluate different deep learning architectures (e.g., CNNs, Transfer learning) to select the most suitable model for garbage classification.	3	High	Sushma
Sprint-3	model development	USN-5	train the selected deep learning model using the preprocessed dataset and monitor its performance on the validation set.	4	High	Vivek
Sprint-3	Training	USN-6	implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.	6	medium	Vivek
Sprint-4	model deployment & Integration	USN-7	deploy the trained deep learning model as an API or web service to make it accessible for common people. integrate the model's API into a user-friendly web interface for users to upload images and get the accurate results.	1	medium	Vivek
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.	1	medium	Roopesh

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	3	3 Days	25 oct 2023	27 oct 2023	10	27 oct 2023
Sprint-2	5	3 Days	27 oct 2023	01 Nov 2023		
Sprint-3	10	5 Days	01 Nov 2023	05 Nov 2023		
Sprint-4	1	7 Days	05 Nov 2023	12 Nov 2023		
Sprint-5	1	7 Days	13 Nov 2023	18 Nov 2023		

Velocity:

Imagine we have a 29-days 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)

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

$$AV = 29/20 = 1.45$$

Burndown Chart:

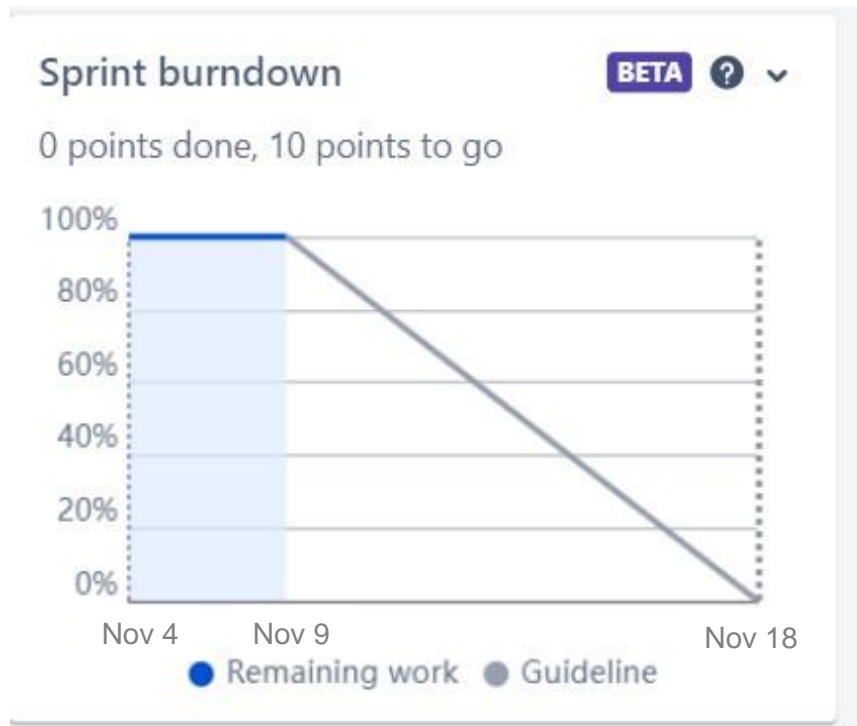
A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>
<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>
<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>
<https://www.atlassian.com/agile/tutorials/epics>
<https://www.atlassian.com/agile/tutorials/sprints>
<https://www.atlassian.com/agile/project-management/estimation>
<https://www.atlassian.com/agile/tutorials/burndown-charts>

Burndown Chart:



Board section.

We have completed sprint 1, 2 and 3. So we can see the remaining tasks on board.


The screenshot displays the Jira Software interface for the 'Insiders' project. The top navigation bar includes 'Jira Software', 'Your work', 'Projects', 'Filters', 'Dashboards', 'Teams', 'Apps', and a 'Create' button. A search bar and user avatars are on the right. A banner at the top of the board area suggests exploring popular team-specific column setups.

The left sidebar shows the project name 'Insiders' and the plan type 'You're on the Free plan' with an 'UPGRADE' button. Below this are navigation options: 'PLANNING' (Timeline, Backlog, Board), 'DEVELOPMENT' (Code), 'Wiki', 'Add shortcut', and 'Project settings'. A note at the bottom indicates 'You're in a team-managed project' with a 'Learn more' link.


The main board area is titled 'Sprint 1' with the goal 'Set up the user interface'. It features a search bar, a filter dropdown set to 'Epic', and a 'GROUP BY' menu with options: 'None', 'Import work', 'Insights', and 'View settings'. The board columns are:

- TO DO**: Empty column.
- IN PROGRESS 2**:
 - Task 1: 'deploy the trained deep learning model as an API or web service to make it accessible for common people. integrate the model's API into a user-friendly web interface for users to upload images and get the accurate results.' (INTEGRATION, TESTING AND QUALITY A... IN-24)
 - Task 2: '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.' (INTEGRATION, TESTING AND QUALITY A... IN-25)
- DONE 6**:
 - Task 1: 'Set up the development environment with the required tools and frameworks to predict the eye disease.' (PROJECT SETUP AND INFRASTRUCTURE IN-15)
 - Task 2: 'implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.' (MODEL DEVELOPMENT IN-22)
 - Task 3: 'train the selected deep learning model using the preprocessed dataset and monitor its performance on the validation set.' (MODEL DEVELOPMENT IN-21)





Backlog section

 **Insiders**
Software project





You're on the Free plan

 **UPGRADE**

PLANNING

-  Timeline
-  **Backlog**
-  Board
-  Add view

DEVELOPMENT

-  Code
-  Wiki
-  Add shortcut
-  Project settings

You're in a team-managed project

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Backlog

 Epic

Epic

Issues without epic

> Project setup and Infrastructure

> Data Preprocessing

> Model Development

> Integration, testing and quality assurance

+ Create epic

+ Create epic

- ▼ **Sprint 1** 4 Nov – 18 Nov (8 issues)

Set up the user interface

IN-15	Set up the development environment with the required tools and frameworks to predict the eye disease.	PROJECT SETUP AND I...	DONE	-	
IN-22	Implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.	MODEL DEVELOPMENT	DONE	-	
IN-21	Train the selected deep learning model using the preprocessed dataset and monitor its performance on the validation set.	MODEL DEVELOPMENT	DONE	-	
IN-19	Explore and evaluate different deep learning architectures (e.g., CNNs, Transfer Learning) to select the most suitable mo...	DATA PREPROCESSING	DONE	-	
IN-16	Gather a diverse dataset of images containing different types of eye diseases for training the deep learning model.	PROJECT SETUP AND I...	DONE	-	
IN-18	Preprocess the collected dataset by resizing images, normalizing pixel values, and splitting it into training and validation...	DATA PREPROCESSING	DONE	-	
IN-24	Deploy the trained deep learning model as an API or web service to make it accessible for common people. integrate th...	INTEGRATION, TESTIN...	IN PROGRESS	-	
IN-25	Conduct thorough testing of the model and web interface to identify and report any issues or bugs. fine-tune the model...	INTEGRATION, TESTIN...	IN PROGRESS	-	

[+ Create issue](#)

➤ Backlog (0 issues)

0 0 0 Create sprint

Timeline

Insiders

Software project

You're on the Free plan

UPGRADE

PLANNING

Timeline

Backlog

Board

+ Add view

DEVELOPMENT

Code

Wiki

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Project settings

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Status category ▾

Epic ▾

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View settings

	T	NOV	DEC	JAN '24	FEB '24	MAR
Sprints		<div>Sprint 1</div>				
> IN-1 Project setup and Infrastructure						
> IN-14 Data Preprocessing						
> IN-20 Model Development						
> IN-23 Integration, testing and quality as...						
+ Create Epic						

⏪

Today

Weeks

Months

Quarters

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