

## Project Planning Phase

### Milestone and Activity List

Team Members	POOVENTHAN D PRANESH S SABAREESHWARAN S SANDEEP P K
TEAM ID	PNT2022TMID04681
Project Name	Project - Digital naturalist AI enabled tool for biodiversity researchers

### Milestone and Activity List:

S.No	Milestone	Activities	Team Members
1.	Data Collection	Create Train and Test Folders	Sabarishwaran S Pranesh S
2.	Image Preprocessing	Import Image Data Generator Library and Configure	Pooventhan D Sandeep P K
3.	Image Preprocessing	Apply Image Data Generator functionality to Train and Test set	Sandeep P K Pranesh S
4.	Model Building	Import the required model building libraries	Sabarishwaran S Pooventhan D
5.	Model Building	Initialize the model	Sandeep P K Pranesh S Sabarishwaran S Pooventhan D
6.	Model Building	Add the convolution layer	Sabarishwaran S Pranesh S
7.	Model Building	Add the pooling layer	Sandeep P K Pranesh S
8.	Model Building	Add the flatten layer	Pooventhan D Sandeep P K

9.	Model Building	Adding the dense layers	Sabarishwaran S Pooventhan D
10.	Model Building	Compile the model	Pooventhan D Sandeep P K
11.	Model Building	Fit and save the model	Sabarishwaran S Pranesh S

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	60 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	60 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	60 Days	07 Nov 2022	07 Nov 2022	20	07 Nov 2022
Sprint-4	20	60 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

### Velocity:

$$AV = \text{Sprint Duration} / \text{Velocity} = 20/10 = 2$$

### Burndown Chart:

### FACULTY:

- 1) File submission status (dashboard) -> college
- 2) Partially evaluated means reason will be there (file missing)

### Agenda:

1) 12 principles of Agile:-

(process of managing project or work use for software development, by breaking it into several phases

Constant collaboration with stakeholders and continuous improvement at every stages

Stakeholders for alterations)

- 1) Satisfy the customers
- 2) Welcome changing requirements
- 3) Deliver working software frequently
- 4) Business work with developers daily
- 5) Build project around motivated individuals
- 6) Face to face conversation.  
(to know any two has a same issue and to solve it as soon as possible)
- 7) Deliver working software
- 8) Constant pace. (same speed throughout all the sprint)
- 9) Technical excellence
- 10) Keep things simple
- 11) Strive towards becoming self organised teams
- 12) Regular Feedback

## 2) Milestones -

Break down work into

- 1) Epics -> Biggest chunk of work
- 2) Stories -> Epic broken down to stories [ 1 EPIC -> 10 STORIES]
- 3) Task -> stories are broken into Tasks, to be completed in sprints

## 3) Sprints:-

Timeline for sprint- 2 week sprint or 2 week iteration.

If more resources (develope + testing + Documentation) in ONE sprint

If work items is not completed in one sprint move it to the next sprint (not encourageable)

## 4) SCRUM:-

Small call everyday to all team members.

Each participants must say

- 1) What did I do yesterday for the project?
- 2) What am I going to do today?
- 3) Are there any issues?

Scrum master (individual head for the week) to manage it to have it as a short meeting

## 5) Progress Tracking:-

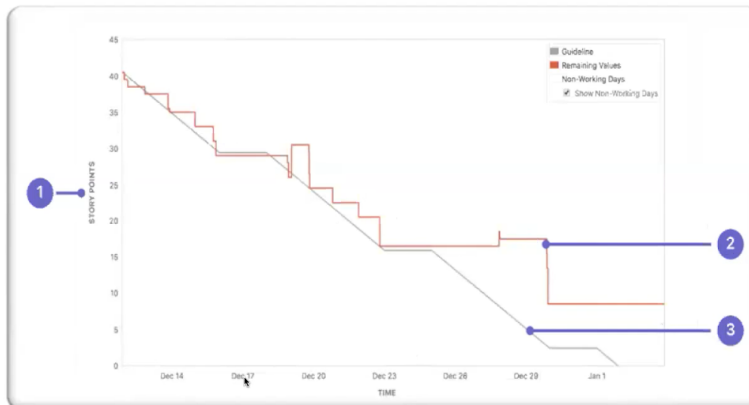
(is the team doing good or lagging behind, correctly doing the planned items in the sprint)

Velocity -> rate at which team is completing the work

Burn down charts -> amount of work completed in epic or sprint

## Sprint burn down charts

- ❖ Estimate – story points
- ❖ Remaining values
- ❖ Guideline



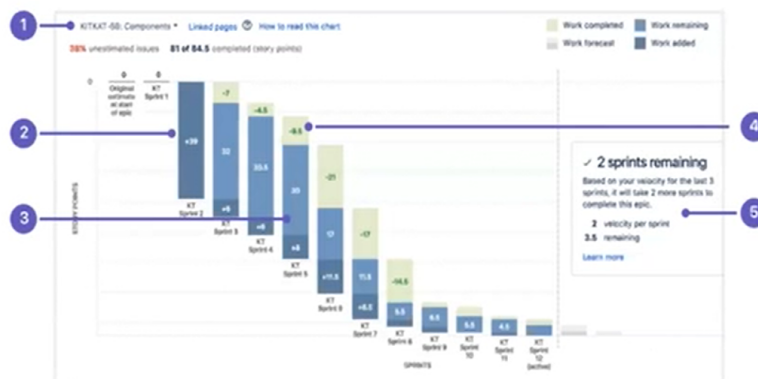
(story points vs sprints)

By burn down charts:

- 1) Navigate scrum project
- 2) Select backlog or active sprint
- 3) Click reports and select burndown chart

## Epic burn down charts

- ❖ Epic menu
- ❖ Work added
- ❖ Work remaining
- ❖ Work completed
- ❖ Projected completion



->At each sprint blue should reduce and white should increase.

## **JIRA:-**

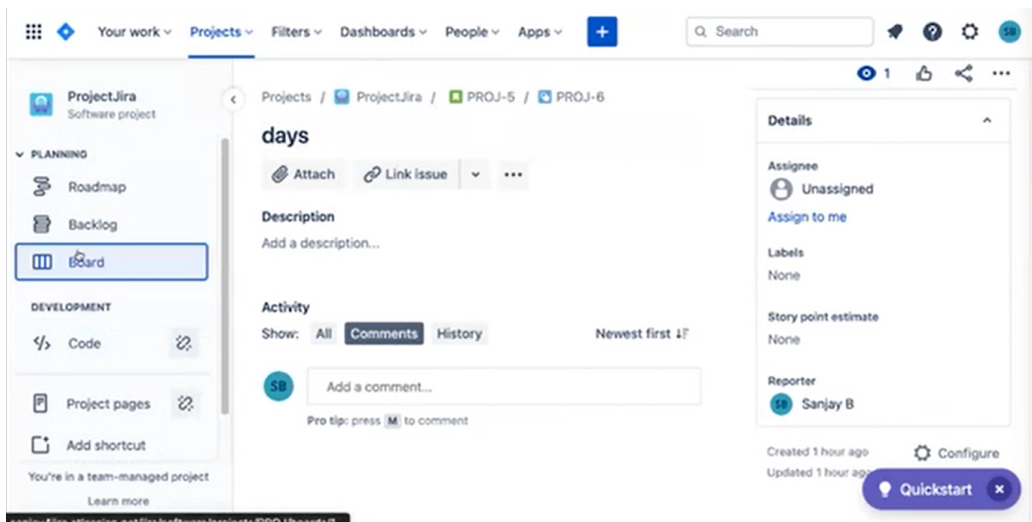
Effective tool for project management using agile methodologies.

Link to github -> change set of the code delivered

- 1) login
- 2) dashboard
- 3) people (invite people) -> own team

ATLASSIAN website -> free version of jira

- 1) Roadmap -> deadline -> sprints
- 2) Epic -> create epic -> assign
- 3) Power symbol (epic)
- 4) Green symbol batch (story) .... Description
- 5) Within story child issue -> task



## JIRA PROJECT:-

Project Planning Template.pdf - Adobe Acrobat Reader (64-bit)

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

Date	18 October 2022
Team ID	PNT2022TMDxxxxxx
Project Name	Project - xxx
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application.	1	High	
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	
	Dashboard					

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Assign story point based on particular user story or effort

4 sprints.(entire project)

Mention team members name of each sprints (contribution of individual)

## **SPRINT SCHEDULE:-**

1 week for each sprint.

The screenshot shows a PDF document titled "Project Tracker, Velocity & Burndown Chart: (4 Marks)". It contains a table with the following data:

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		

Below the table, there is a section titled "Velocity:" with the text: "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)".

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

A black box with white text says: "for each Sprint, and this is our original"

If delayed, mention the actual release date.

Velocity and burndown charts from jira

2 templates.

If used jira they can know about (project planner)

- 1) Velocity ( $Av = \text{sprint duration} / \text{velocity}$ )
- 2) Burndown charts
- 3) Epic
- 4) User stories
- 5) Task

**“ ADDITIONAL 2 POINTS IF USED JIRA “**

**DOWNLOAD JIRA PROJECT FILES ->**

**SCREENSHOT TAKEN FROM JIRA ->**

**UPLOAD SCREENSHOT IN “JIRA PROJECT FILES” ->BURN DOWN CHART**

**“PROJECT PLANNING TEMPLATE”**

Sprint => entire project into time map like road map (timeline)

EPICS & USER STORIES ARE LISTED IN TEMPLATE ITSELF -> PROJECT DESIGN PHASE -> PROJECT PLANNING PHASE

12.	Test the model	Import the packages and load the saved model	Sandeep P K Pranesh S
13.	Test the model	Load the test image, pre-process it and predict	Sabarishwaran S Pranesh S
14.	Application Building	Build a flask application	
15.	Application Building	Build the HTML page	Sabarishwaran S Pooventhan D
16.	Application Building	Output	Sandeep P K Pranesh S Sabarishwaran S Pooventhan D
17.	Train CNN Model on IBM	Register for IBM Cloud	Pooventhan D Sandeep P K
18.	Train CNN Model on IBM	Train Image Classification Model	Pooventhan D Sandeep P K



