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= Sprint Duration / 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 possible0
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

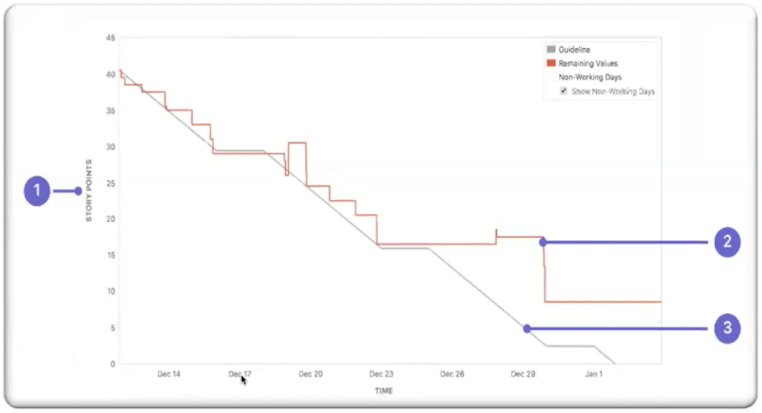
5) Progress Tracking:-
(is the team doing good or lagging behind, correctly doing the planned items in the sprint)

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)

<u>By burn down charts</u>:

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:-

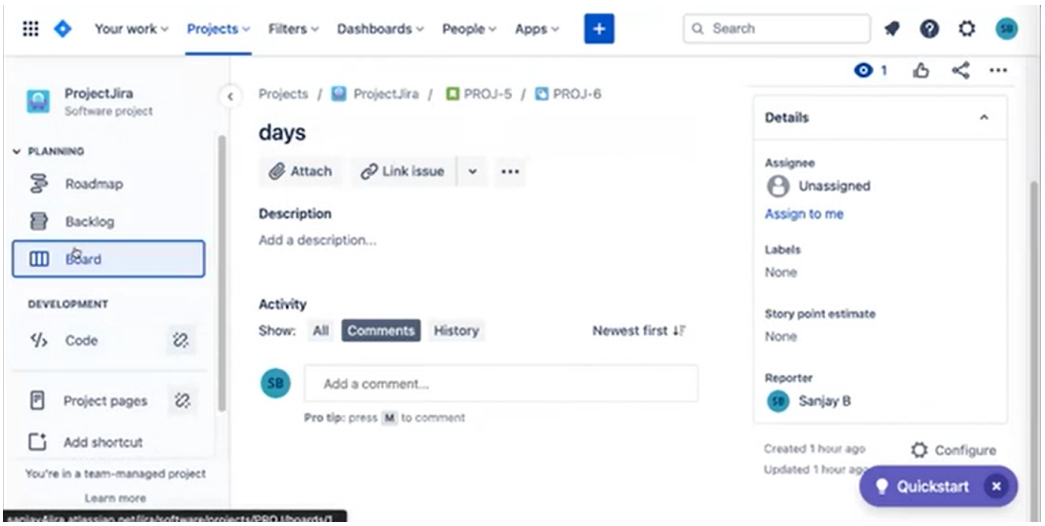
Effective tool for project management using agile methodologies.

Link to github -> change set of the code delivered

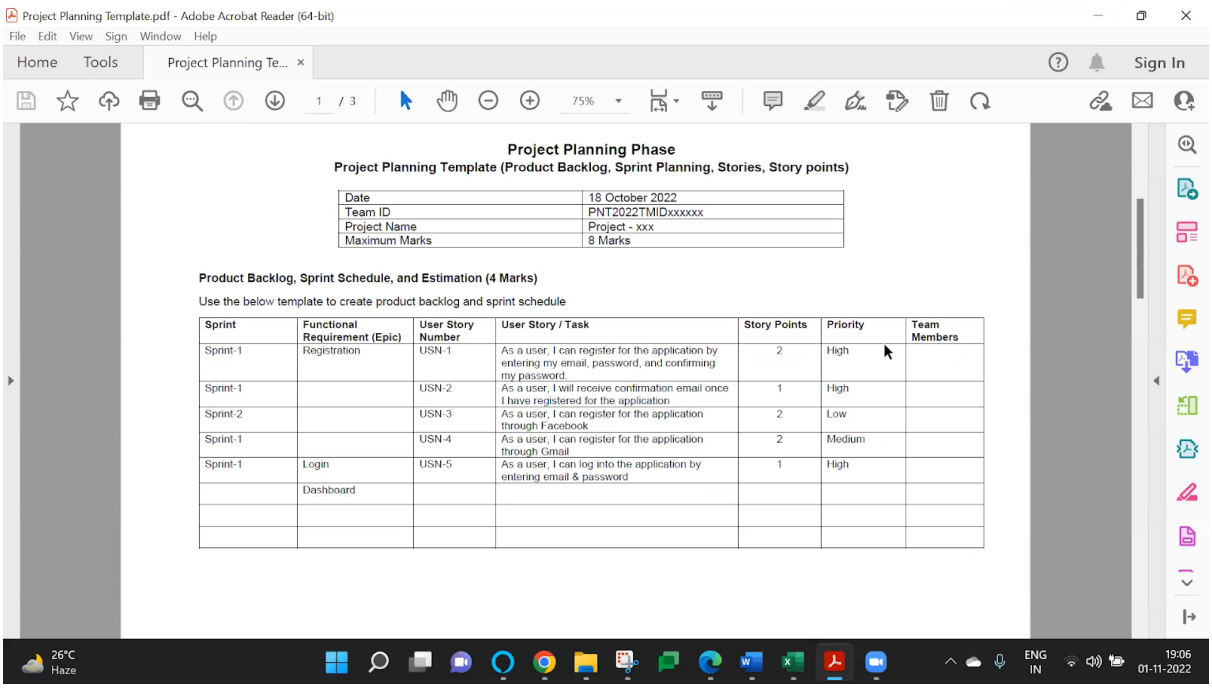
1)login
2) dashboard
3) people (invite people) -> own team

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:-



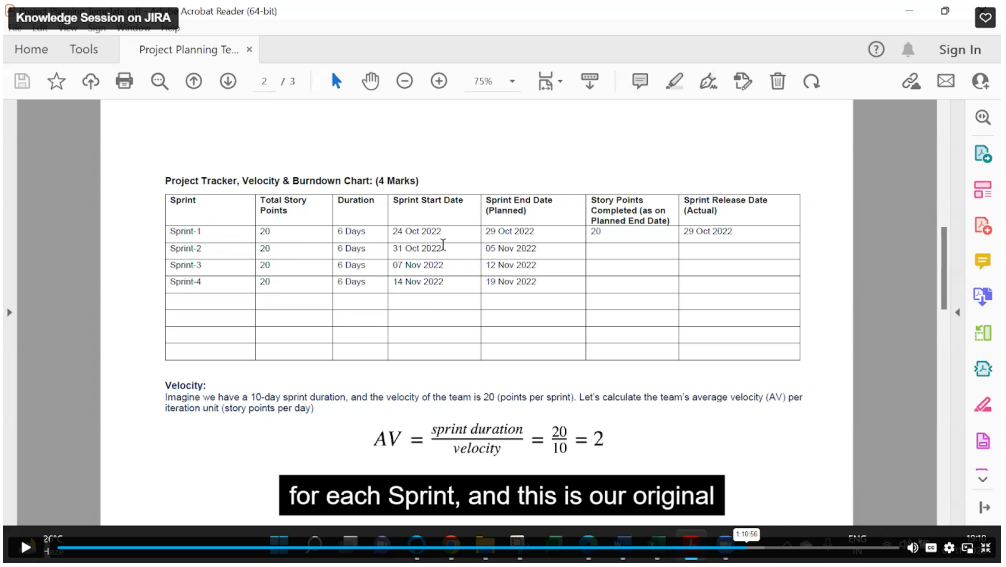
Assign story point based on particular user story or effort

4 sprints.(entire project)

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

SPRINT SCHEDULE:-

1 week for each sprint.



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 = sprint duration / 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