

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

Date	10 November 2023
Team ID	Team-592393
Project Name	Dog Breed Identification using Transfer 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	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint 1	Project Setup and Infrastructure	USN-1	Set up the development environment with the necessary tools and frameworks to initiate the dog breed classification project.	5	High	Alexia Prince Cheenath
Sprint 1	Data Collection	USN-2	Gather a diverse dataset of images	5	High	Gayatri Moitra

			containing various dog breeds for training the machine learning model.			
Sprint 2	Data Preprocessing	USN-3	Preprocess the collected dataset by resizing images, normalizing pixel values, and dividing it into training and validation sets.	6	High	Gayatri Moitra
Sprint 2	Model Development	USN-4	Using VGG19 Transfer Learning architecture for the model.	4	High	Alexia Prince Cheenath
Sprint 3	Training and Testing	USN-5	Train the selected machine learning model using the preprocessed dataset and monitor its performance on the validation set.	4	High	Alexia Prince Cheenath
Sprint 3	Data Augmentation	USN-6	Implement data augmentation techniques (e.g., rotation, flipping) to enhance the model's accuracy and robustness.	6	Medium	Gayatri Moitra
Sprint 4	Model deployment and Integration	USN-7	Deploy the trained machine learning	10	Medium	Alexia Prince Cheenath

			model as an API or web service for dog breed classification. Integrate the model's API into a user-friendly web interface.			
Sprint 5	Testing and Quality Assurance	USN-8	Conduct comprehensive testing of the model and web interface, identifying and addressing any issues or bugs. Optimize the model based on user feedback and testing results.	10	Medium	Gayatri Moitra

Dog Breed Identification - Agile

dogbreed.atlassian.net/jira/software/projects/DBI/boards/1/backlog?epics=visible

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Backlog

Import work Insights View settings

Epic x

Issues without epic

- Data Collection
- Data Preprocessing and Model Building
- Training and Testing Model
- Model Deployment and Integration
- Testing and Quality Assurance

+ Create epic

Sprint 1 16 Nov - 16 Nov (2 issues) 0 15 Complete sprint

- DBI-7 Set up the development environment with the necessary tools and fram... DATA COLLEC... IN PROGRESS 5
- DBI-9 Gather a diverse dataset of images DATA COLLEC... IN PROGRESS 5

+ Create issue

Sprint 2 16 Nov - 16 Nov (2 issues) 18 15 Complete sprint

- DBI-10 Preprocess the collected dataset by resizing images, normalizing pixel v... DATA PREPRO... TO DO 4
- DBI-11 Apply VGG19 transfer model technique to the model DATA PREPRO... TO DO 6

+ Create issue

Sprint 3 16 Nov - 16 Nov (2 issues) 18 15 Complete sprint

- DBI-12 Train the model and test it on the validation data TRAINING AND... TO DO 6

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Epic x

Issues without epic

- Data Collection
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+ Create epic

Sprint 3 16 Nov - 16 Nov (2 issues) 10 15 Complete sprint

- DBI-12 Train the model and test it on the validation data TRAINING AND... TO DO 6
- DBI-13 Implement Data Augmentation TRAINING AND... TO DO 4

+ Create issue

Sprint 4 16 Nov - 16 Nov (2 issues) 10 15 Complete sprint

- DBI-14 Deploy the trained machine learned model as a web service MODEL DEPL... TO DO 5
- DBI-15 Integrate the model's API into a user friendly interface MODEL DEPL... TO DO 5

+ Create issue

Sprint 5 16 Nov - 16 Nov (2 issues) 10 15 Complete sprint

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Backlog

Import work Insights View settings

Epic x

Issues without epic

- Data Collection
- Data Preprocessing and Model Building
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- Testing and Quality Assurance

+ Create epic

Sprint 4 16 Nov - 16 Nov (2 issues) 10 15 Complete sprint

- DBI-14 Deploy the trained machine learned model as a web service MODEL DEPL... TO DO 5
- DBI-15 Integrate the model's API into a user friendly interface MODEL DEPL... TO DO 5

+ Create issue

Sprint 5 16 Nov - 16 Nov (2 issues) 18 15 Complete sprint

- DBI-16 Conduct comprehensive testing of the model and web interface identify... TESTING AND... TO DO 5
- DBI-17 Optimize the model based on user experience TESTING AND... TO DO 5

+ Create issue

Backlog (0 issues) Create sprint

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All sprints

Complete sprint 0 days remaining

GROUP BY None Import work Insights View settings

TO DO 8

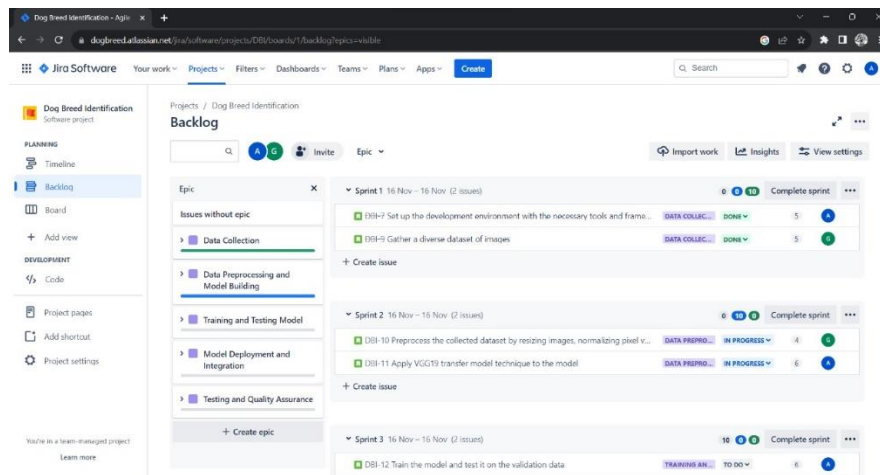
- Preprocess the collected dataset by resizing images, normalizing pixel values and dividing it into training and testing DATA PREPROCESSING AND MODEL BUILDING DBI-10
- Apply VGG19 transfer model technique to the model DATA PREPROCESSING AND MODEL BUILDING DBI-11
- Train the model and test it on the validation data TRAINING AND TESTING MODEL DBI-12
- Implement Data Augmentation

IN PROGRESS 1

- Gather a diverse dataset of images DATA COLLECTION DBI-9

DONE 1

- Set up the development environment with the necessary tools and frameworks DATA COLLECTION DBI-7



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	10	2 Days	04 November 2023	05 November 2023	10	05 November 2023
Sprint-2	10	3 Days	06 November 2023	08 November 2023	10	08 November 2023
Sprint-3	10	5 Days	09 November 2023	13 November 2023	10	13 November 2023

Sprint-4	10	1 Day	14 November 2023	14 November 2023	10	14 November 2023
Sprint-5	10	1 Day	15 November 2023	15 November 2023	10	15 November 2023

Velocity:

For Sprint 1:

Average Velocity = $10/2 = 5$

For Sprint 2:

Average Velocity = $10/3 = 3.33$

For Sprint 3:

Average Velocity = $10/5 = 2$

For Sprint 4:

Average Velocity = $10/1 = 10$

For Sprint 5:

Average Velocity = $10/1 = 10$

Burndown Chart:

