Project Planning Phase

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

Date	20 November 2023
Team ID	SPSGP-614965
Project Name	Project - Extracting Intelligent Insights With AI-Based Systems
Maximum Marks	4 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 start the Extracting Intelligent Insights With AI-Based Systems project.	1	High	Praveen
Sprint-1	development environment	USN-2	Gather a diverse dataset of text for training the deep learning model.	2	High	Bhavesh
Sprint-2	Data collection	USN-3	Pre-process the collected dataset splitting it into training and validation sets.	2	High	Praveen
Sprint-2	data pre-processing	USN-4	Explore and evaluate different deep learning architectures (e.g., CNNs) to select the most suitable model for text summarization.	3	High	Aakash
Sprint-3	model development	USN-5	train the selected deep learning model using the pre-processed dataset and monitor its performance on the validation set.	4	High	Abhilesh

Sprint-3	Training	USN-6	implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.	6	medium	Bhavesh
Sprint-4	model deployment & Integration	USN-7	deploy the trained deep learning model as a web service to make it accessible for users. integrate the model into an user-friendly web interface for users to upload text and url and receive summarization results.	1	medium	Aakash
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	Abhilesh

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	4 Days	01 Nov 2023	05 Nov 2023	20	05 Nov 2023
Sprint-2	5	4 Days	06 Nov 2023	10 Nov 2023		
Sprint-3	10	2 Days	11 Nov 2023	13 Nov 2023		
Sprint-4	1	4 Days	14 Nov 2023	18 Nov 2023		
Sprint - 5	1	2 Days	18 Nov 2023	20 Nov 2023		

Velocity:

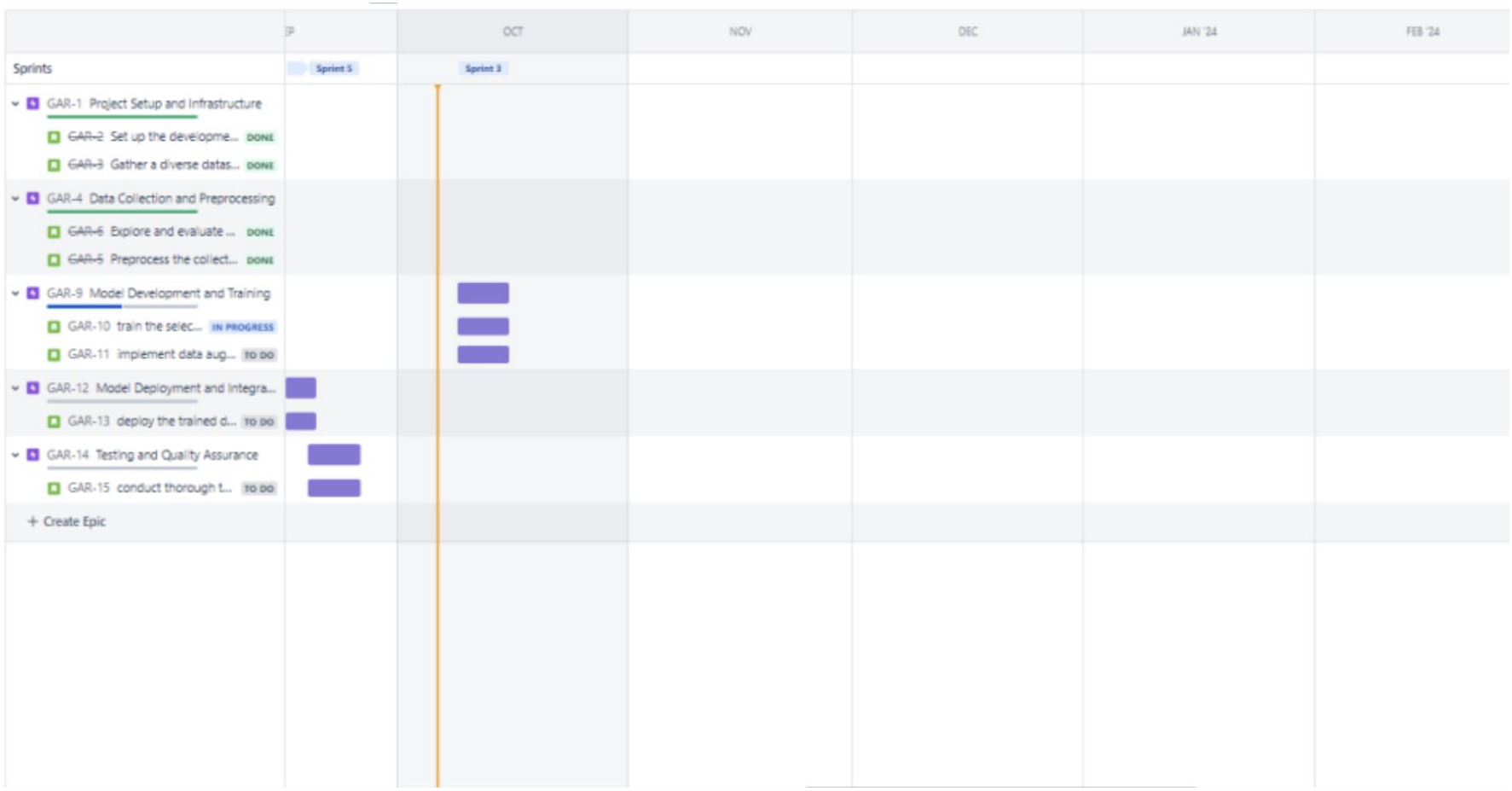
Imagine we have a 16-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \quad 20/16 = 1.25$$

Burndown Chart:

A burn down 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.


Epic
Issues without epic
Project Setup and Infrastructure
Data Collection and Preprocessing
Model Development and Training
Model Deployment and Integration
Testing and Quality Assurance
Create epic


IP
OCT
NOV
DEC
JAN '24
FEB '24
Sprints
Sprint 5
Sprint 3
GAR-1 Project Setup and Infrastructure
GAR-2 Set up the developme... DONE
GAR-3 Gather a diverse datas... DONE
GAR-4 Data Collection and Preprocessing
GAR-6 Explore and evaluate ... DONE
GAR-5 Preprocess the collect... DONE
GAR-9 Model Development and Training
GAR-10 train the selec... IN PROGRESS
GAR-11 implement data aug... TO DO
GAR-12 Model Deployment and Integra...
GAR-13 deploy the trained d... TO DO
GAR-14 Testing and Quality Assurance
GAR-15 conduct thorough t... TO DO
+ Create Epic

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