

## Initial Project Planning Template

Date	15 June 2025
Team ID	SWTID1750006853
Project Name	ASL- Alphabet image Recognition
Maximum Marks	4 Marks

### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create a product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Assigned To	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	Dataset Acquisition & Preparation	USN-1	As a data engineer, I want to collect and organize ASL alphabet image datasets.	3	High	T R Anusithara	2025-06-15	2025-06-17
Sprint-1	Data Preprocessing	USN-2	As a data engineer, I want to clean and normalize the dataset for training.	2	High	T R Anusithara	2025-06-15	2025-06-17
Sprint-1	Image Preprocessing Pipeline	USN-3	As a developer, I want to implement image augmentation and resizing techniques.	3	Medium	T R Anusithara	2025-06-15	2025-06-17
Sprint-2	Model Building	USN-4	As a ML engineer, I want to build a CNN model (VGG16-based) for ASL classification.	5	High	Mohamed Ashiq	2025-06-17	2025-07-19

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Assigned To	Sprint Start Date	Sprint End Date (Planned)
Sprint-2	Model Training & Tuning	USN-5	As a ML engineer, I want to train and optimize the model using the preprocessed data.	5	High	Mohamed Ashiq	2025-06-17	2025-07-19
Sprint-2	Model Evaluation & Export	USN-6	As a ML engineer, I want to evaluate model performance and export it for deployment.	3	High	Mohamed Ashiq	2025-06-17	2025-07-19
Sprint-3	Web App UI (Homepage & Upload)	USN-7	As a user, I can view the homepage and upload an image for prediction.	3	High	Gurkirat Singh	2025-07-19	2025-07-20
Sprint-3	Result Display Page	USN-8	As a user, I can view the predicted alphabet after uploading an image.	2	High	Gurkirat Singh	2025-07-19	2025-07-20
Sprint-3	Navigation & Routing	USN-9	As a user, I can navigate between Home, Prediction, and Result pages.	1	Medium	Gurkirat Singh	2025-07-19	2025-07-20
Sprint-3	Model Integration (Flask Backend)	USN-10	As a developer, I want to integrate the trained model into the Flask backend.	4	High	Gurkirat Singh	2025-07-19	2025-07-20
Sprint-4	Real-Time Prediction Optimization	USN-11	As a user, I want near-instant prediction after image submission.	5	High	Gurkirat Singh	2025-07-19	2025-07-20