



Initial Project Planning Template

Date	18 July 2024
Team ID	SWTID1721319573
Project Name	Blueberry Yield Prediction
Maximum Marks	4 Marks

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

Sprint	Functional	User Story	User Story / Task	Story	Priority	Team	Sprint	Sprint End
	Requirement	Number		Points		Members	Start Date	Date
	(Epic)							(Planned)
Sprint-1	Data Collection	USN-1	Identify and collect primary data	3	High	Angelica T	18th July	19th July
	& Preparation		sources for blueberry yield prediction				2024	2024
Sprint-1		USN-2	Identify and collect secondary data	2	High	Angelica T	18th July	19th July
			sources for blueberry yield prediction				2024	2024
Sprint-1	Data	USN-3	Clean and preprocess the collected	3	High	Angelica T	18th July	19th July
_	Preparation		data, handle missing value				2024	2024
Sprint-2	Exploratory	USN-4	Perform descriptive statistical analysis	2	High	Angelica T	19th July	20th July
	Data Analysis (EDA)		on the dataset				2024	2024
Sprint-2		USN-5	Conduct visual analysis using	3	High	Angelica T	19th July	20th July
			histograms, scatter plots, and heatmaps				2024	2024
Sprint-3	Model Building	USN-6	Train the data using Linear Regression	2	High	Angelica T	20th July	21st July 2024
_			model				2024	
Sprint-3		USN-7	Train the data using Random Forest	2	Medium	Angelica T	20th July	21st July 2024
			Regressor model				2024	





Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint-3		USN-8	Train the data using Decision Tree Regressor model	2	Medium	Angelica T	20th July 2024	21st July 2024
Sprint-3		USN-9	Train the data using XGBoost Regressor model	2	Medium	Angelica T	20th July 2024	21st July 2024
Sprint-4	Model Evaluation & Tuning	USN-10	Test the models with evaluation metrics (MAE, RMSE, R2)	2	High	Angelica T	21st July 2024	22nd July 2024
Sprint-4		USN-11	Perform hyperparameter tuning on the models	2	Medium	Angelica T	21st July 2024	22nd July 2024
Sprint-5	Model Deployment	USN-12	Save the best model and prepare it for deployment	1	High	Angelica T	22nd July 2024	22nd July 2024
Sprint-5	Build server- side script using Flask to integrate the model	USN-13	Develop HTML pages for user input and result display	2	High	Angelica T	22nd July 2024	22nd July 2024
Sprint-5		USN-14	Build server-side script using Flask to integrate the model	2	High	Angelica T	22nd July 2024	22nd July 2024
Sprint-6	Project Demonstration & Documentation	USN-15	Record an explanation video of the project	1	Medium	Angelica T	22nd July 2024	23nd July 2024
Sprint-6		USN-16	Document the project development process step-by-step	2	High	Angelica T	22nd July 2024	23nd July 2024