Initial Project Planning Template

Date	9 JULY 2024
Team ID	xxxxxx
Project Name	Detection of Autistic Spectrum Disorder: Classification
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	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	**Data Collection**	USN-1	Gather a dataset containing features such as demographic information, behavioral characteristics, and medical history from individuals suspected of having ASD.	1	High	-	8 july 20224	8 july 2024
Sprint-1	**Data Preprocessing**	USN-2	Clean the data by handling missing values, encoding categorical variables, and scaling numerical features	1	High	-	9 july 2024	9 july 2024
Sprint-1	**Feature Engineering**	USN-3	Select and engineer features that are most relevant for predicting ASD using techniques such as feature importance analysis and domain knowledge.	1	Low	-	10 july 2024	10 july 2024

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	**Model Selection**	USN-4	Evaluate and compare different machine learning algorithms suitable for binary classification tasks, such as logistic regression, decision trees, random forests, or neural networks.	1	Medium	-	11 july 2024	11 july 2024
Sprint -1	**Model Training**	USN-5	Train selected models on the preprocessed data, optimizing hyperparameters through techniques like cross-validation.	1	Medium	-	12 july 2024	12 july 2024
Sprint-1	**Model Evaluation**	USN-6	Assess model performance using metrics such as accuracy, precision, recall, and F1-score. Ensure the model generalizes well to new, unseen data.	1	Medium	-	13 july 2024	13 july 2024
Sprint-1	**Deployment**	USN-7	Implement the trained model into a practical application or healthcare system for real-time prediction of ASD likelihood.	1	Medium	-	15 july 2024	17 july 2024