**Initial Project Planning Template**

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| Date | 15 July 2024 |
| Team ID | 740685 |
| Project Name | **SDSS galaxy classification using Machine Learning** |
| Maximum Marks | 4 Marks |

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

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

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| **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 | As a researcher,I can collect and preprocess SDSS data to ensure it is ready for machine learning models. | 3 | High |  |  |  |
| Sprint-1 | Model Training | USN-2 | As a researcher,i can train a machine learning model to classify galaxies based on the SDSS data. | 5 | High |  |  |  |
| Sprint-2 | Model Evaluation | USN-3 | As a researcher,I can evaluate the performance of the trained model using a test dataset | 2 | Medium |  |  |  |
| Sprint-2 | Model Optimization | USN-4 | As a researcher, I cab optimize the machine learning model to improve its classification accuracy |  | High |  |  |  |
| Sprint-3 | Model Deployment | USN-5 | As a researcher, I can deploy the trained and optimized model to classify new data galaxy | 4 | Medium |  |  |  |