**Initial Project Planning Template**

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| Date | 24 April 2024 |
| Team ID | 739695 |
| Project Name | Predicting the Compressive Strength of Concrete |
| 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-2 | As a user, I can collect raw data on concrete mixes and compressive strength from various sources understanding and loading the data | 2 | Low | Diddi Akshay | 05/052024 | 10/06/2024 |
| Sprint-1 | Data Collection and Preprocessing | USN-3 | As a user, I can clean and preprocess the data for analysis including handling missing values | 2 | Medium | Dharla Poojitha | 05/05/2024 | 12/05/2024 |
| Sprint-1 | Data Collection and Preprocessing | USN-4 | Exploratory Data Analysis  Descriptive Statistics | 3 | High | Abbineni Bhumika | 05/052024 | 12/05/2024 |
| Sprint-2 | Exploratory Data Analysis | USN-5 | Visual Analysis | 3 | Low | Diddi Akshay  Dharla Poojitha | 12/05/2024 | 15/05/2024 |
| Sprint-2 | Exploratory Data Analysis | USN-7 | Evaluating the model | 3 | Medium | Dharla Poojitha | 12/05/2024 | 15/05/2024 |
| Sprint-3 | Model Building/model selection | USN-6 | As a user,I can train different machine learning models to predict compressive strength. | 2 | High | Dadi Abhinay | 15/05/2024 | 19/05/2024 |
| Sprint-3 | Model Building | USN-8 | Testing the model | 2 | High | Abbineni Bhumika | 20/05/2024 | 25/05/2024 |
| Sprint-3 | Performance Testing | USN-9 | Testing the model with multiple evaluation metrics | 4 | Medium | Dadi Abhinay | 26/05/2024 | 30/05/2024 |
| Sprint-4 | Model Deployment | USN-11 | Save the best model  As a user, I can deploy the best performing model as a web application for easy access | 4 | High | Abbineni Bhumika | 01/06/2024 | 7/06/2024 |
| Sprint-4 | Model Development | USN-12 | Integrate with Web Framework& building the HTML templates | 3 | Medium | Dadi Abhinay | 10/06/2024 | 15/06/2024 |
| Sprint-4 | Model  Development | USN-13 | Flask Importing and app.py | 4 | High | Dadi Abhinay | 20/06/2024 | 25/06/2024 |
| Sprint-3  Sprint-4 | Project Report | USN-15 | Report | 4 | Medium | Abbineni Bhumika  Dadi Abhinay  Dharla Poojitha  Diddi Akshay | 27/06/2024 | 07/07/2024 |