**Initial Project Planning Template**

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| Date | 27 September 2024 |
| Team ID | 739755 |
| Project Name | Bird Species 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 | As a user, I can collect a diverse dataset of social media comments, including both toxic and non toxic comments from various social Media Platforms | 5 | Medium | Mandala Manasa | 20/10/2024 | 21/10/2024 |
| Sprint-2 | Image Preprocessing | USN-2 | As a user .I can import libraries like numpy ,pandas ,matplotlib etc  As a user I can read the Datasets | 4 | High | Mandala Manasa,  Rudravena Sathwika | 22/10/2024 | 23/10/2024 |
| Sprint-2 | Image Preprocessing | USN-3 | As a user, I In data preprocessing for toxic comment classification, vectorizing involves transforming text data into numerical representations for machine learning models | 3 | Medium | Mandala Manasa | 24/10/2024 | 28/10/2024 |
| Sprint-3 | Model Building | USN-4 | As a user, I can select Logistic regression is chosen for toxic comment classification on social media due to its simplicity, interpretability, and effectiveness in binary classification tasks. | 3 | Medium | Rudravena Sathwika,  Mandala Manasa | 29/10/2024 | 30/10/2024 |
| Sprint-4 | Model Training and Testing | USN-6 | As a user, I can Training a logistic regression model on the preprocessed data. Evaluating the model's performance by using relevant metrics like accuracy\_score, precision etc. Building a multi-label classifier using Logistic Regression. For each target variable, the model is fitted and saved | 4 | High | Rudravena Sathwika,  Bairy Abhinav | 01/11/2024 | 03/11/2024 |
| Sprint-5 | Application Building | USN-7 | As a user, In building a Flask app for toxic comment classification, you create API endpoints to accept text input, process it through your trained model, and return the prediction results | 4 | Medium | Mandala Manasa, Gummadi Kavyasri | 04/11/2024 | 05/11/2024 |
| Sprint-5 | Model Development | USF-8 | To build an HTML page for toxic comment classification on social media, as a user, you design a web interface to input comments, integrate the model for prediction, and display the results | 3 | Low | Gummadi  Kavyasri,  Bairy  Abhinav | 06/11/2024 | 08/11/2024 |
| Sprint-6 | Model Development | USF-10 | As a user, I can Execute the python code and after the module is running, open the localhost page and give the text to be predicted or tested. | 3 | Medium | Mandala Manasa,  Rudravena Sathwika | 09/11/2024 | 12/12/2024 |
| Sprint-6 | Project Report | USF-11 | Reporting the project. | 4 | High | Mandala Manasa,  Rudravena Sathwika  Gummadi  Kavyasri,  Bairy  Abhinav | 13/11/2024 | 15/11/2024 |