

## Initial Project Planning Template

|               |                             |
|---------------|-----------------------------|
| 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<br>As a user I can read the Datasets   | 4            | High     | Mandala Manasa,<br>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                |

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|----------|-------------------------------|-------------------|---|--------------|----------|------------------------------------|-------------------|---------------------------|
| 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,  | 3            | Low      | Gummadi Kavyasri, Bairy Abhinav    | 06/11/2024        | 08/11/2024                |

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|----------|-------------------------------|-------------------|--|--------------|----------|--|-------------------|---------------------------|
|          |                               |                   | integrate the model for prediction, and display the results  |              |          |  |                   |                           |
| 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                |