**Initial Project Planning Template**

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| Date | June 12th,2025 |
| Team ID | SWTID1749710222 |
| Project Name | Unlocking Silent Signals: Decoding Body Language with Mediapipe |
| 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** | **Priority** | **Team Members** | **Sprint Start Date** | **Sprint End Date (Planned)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Data Collection and Preprocessing | USN-1 | Gather and prepare video/image data for training | High | Yukta, | 12th june | 13th june |
| Sprint-2 | Data Collection and Preprocessing | USN-2 | Clean, label, and structure the data | High | Jahnavi | 13th june | 13th june |
| Sprint-3 | Data Collection and Preprocessing | USN-3 | Perform Exploratory Data Analysis (EDA) | Low | Jahnavi | 14th june | 14th june |
| Sprint-3 | Model Development | USN-4 | As a user, I can register for the Train the body language classifier (using Mediapipe landmarks) | Medium | Harini | 14th june | 14th june |
| Sprint-3 | Model Development | USN-5 | Evaluate and validate the trained model | Medium | Akshaya | 14th june | 14th june |
| Sprint-4 | Model Tuning and Testing | USN-6 | Hyperparameter tuning to improve accuracy | High | Jahnavi,Akshaya,Harini,Yukta | 15th june | 15th june |
| Sprint-4 | Model Tuning and Testing | USN-7 | Final testing with separate test set | Medium | Jahnavi,Akshaya,Harini,Yukta | 15th june | 15th june |
| Sprint-5 | Web Integration and Deployment | USN-8 | Develop Streamlit UI for photo or video upload | Medium | Jahnavi | 16th june | 16th June |
| Sprint-5 | Web Integration and Deployment | USN-9 | Integrate trained model into Streamlit UI | High | Akshaya,Harini | 16th june | 16th june |
| Sprint-6 | Project Report | USN-10 | Prepare final project report and video demonstration | High | Jahnavi,Akshaya,Harini,Yukta | 17th june | 17th June |