**Project Planning Phase**

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)**

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID35341 |
| Project Name | Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables |
| Maximum Marks | 5 Marks |

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

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Image Upload | USN-1 | |  | | --- | |  |  |  | | --- | | As a user, I can upload fruit/vegetable images for classification. | | 3 | High |  |
| Sprint-1 | Model Integration | USN-2 | As a system, I load and use a trained model to classify uploaded images. | 3 | High |  |
| Sprint-1 | Web Interface | USN-3 | As a user, I can interact with a user-friendly interface to make predictions. | 2 | High |  |
| Sprint-2 | |  | | --- | |  |  |  | | --- | | Display Results | | USN-4 | As a user, I can see classification results with labels (e.g., "Apple\_Rotten"). | 2 | High |  |
| Sprint-2 | |  | | --- | |  |  |  | | --- | | Dataset Handling | | USN-5 | As a developer, I can preprocess and visualize the dataset effectively. | 2 | Medium |  |
| Sprint-3 | Data Augmentation | USN-6 | As a developer, I apply data augmentation to improve model accuracy.. | 3 | Medium |  |
| Sprint-1 | Prediction History | USN-7 | As a user, I can view previously predicted items and their statuses. | 2 | Medium |  |
| Sprint-3 | Admin Panel | USN-8 | As an admin, I can upload/update the classification model (.h5).. | 2 | Medium |  |
| Sprint-1 | System Notifications | USN-9 | As a system, I can notify users when predictions are completed. | 1 | Low |  |
| Sprint-2 | Error Handling | USN-10 | As a user, I receive meaningful error messages for invalid uploads. | 2 | Medium |  |
| Sprint-3 | Feedback Handling | USN-11 | As a user, I can submit feedback about wrong predictions or issues. | 1 | Low |  |