**Initial Project Planning Template**

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| Date | 19 June 2025 |
| Team ID | SWTID1749821186 |
| Project Name | Enhancing Product Reliability: Leveraging Transfer Learning for Fault Detection |
| Maximum Marks | 4 Marks |

**Product Backlog, Sprint Schedule, and Estimation**

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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)** |
| 1 | Build Deep Learning Model | US-01 | Collect and preprocess casting dataset | 1 | High | Kavisha, Mikhail | 2025-06-19 | 2025-06-20 |
| 1 | Build Deep Learning Model | US-02 | Train model using transfer learning | 13 | High | Kavisha, Mikhail | 2025-06-20 | 2025-06-24 |
| 1 | Build Deep Learning Model | US-03 | Evaluate model performance and save trained model | 3 | High | Kavisha, Mikhail | 2025-06-24 | 2025-06-25 |

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** | **Sprint Start Date** | **Sprint End Date (Planned)** |
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| 2 | Design Web Interface | US-04 | Create homepage with navigation and styling | 2 | Medium | Pallavi | 2025-06-25 | 2025-06-26 |
| 2 | Design Web Interface | US-05 | Build About, Contact, and Upload pages with Tailwind CSS | 3 | Medium | Pallavi | 2025-06-26 | 2025-06-28 |
| 2 | Design Web Interface | US-06 | Add error and result pages with dynamic content placeholders | 2 | Medium | Pallavi | 2025-06-28 | 2025-06-29 |
| 3 | Integrate Model with Web App | US-07 | Connect upload form to Flask backend | 3 | High | Angelina | 2025-06-29 | 2025-06-30 |
| 3 | Integrate Model with Web App | US-08 | Load trained model and return prediction result | 3 | High | Angelina | 2025-07-01 | 2025-07-02 |
| 3 | Integrate Model with Web App | US-09 | Display prediction result on output page | 2 | High | Angelina | 2025-07-03 | 2025-07-04 |