**Project Planning Phase**

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

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| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID46251 |
| Project Name | **HematoVision: Advanced Blood Cell Classification Using Transfer Learning** |
| 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** | **Data Collection & Preprocessing** | **USN-1** | **As a developer, I want to collect and preprocess blood cell images so the model can be trained effectively.** | **3** | **High** | **Marripudi Varshini, Pesala Balasaraswathimeghana** |
| **Sprint-1** | **Model Building** | **USN-2** | **As a developer, I want to build and train a CNN using MobileNetV2 for blood cell classification.** | **5** | **High** | **Mannepalli Bala Praharsha, Reddy Venkata Sai Sidhardha** |
| **Sprint-2** | **Model Evaluation** | **USN-3** | **As a developer, I want to evaluate the model's performance to ensure accuracy and reliability.** | **2** | **Medium** | **Pesala Balasaraswathimeghana** |
| **Sprint-2** | **Flask Integration** | **USN-4** | **As a user, I want to upload an image and get prediction results via a web UI built with Flask.** | **3** | **High** | **Mannepalli Bala Praharsha, Marripudi Varshini** |
| **Sprint-2** | **Frontend Design** | **USN-5** | **As a user, I want a simple UI to upload images and view predictions clearly.** | **2** | **Medium** | **Reddy Venkata Sai Sidhardha, Pesala Balasaraswathimeghana** |
| **Sprint-3** | **Testing & Debugging** | **USN-6** | **As a developer, I want to test the full application to ensure all components work correctly.** | **3** | **High** | **Entire Team** |
| **Sprint-3** | **Documentation** | **USN-7** | **As a team, we want to prepare documentation to explain project flow, tech stack, and usage.** | **1** | **High** | **Entire Team** |