**PROJECT PLANNING (Agile Methodologies)**

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| **Date** | **24 June 2025** |
| **Team ID** | **LTVIP2025TMID43223** |
| **Project Name** | **Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management** |
| **Maximum Marks** | **5 Marks** |

**Objective:**

**To efficiently manage the development of the PoultryDetect+ system using Agile methodologies, allowing for iterative development, continuous feedback, and regular improvements.**

**Sprint Planning:**

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| --- | --- |
| **Sprint** | **Activities** |
| **Sprint 1** | **Data collection and preprocessing.  Build & train the CNN model.  Evaluate and fine-tune model performance.** |
| **Sprint 2** | **Develop Flask backend for image upload and prediction.  Design responsive UI using Tailwind CSS.  Integrate backend and frontend.** |
| **Sprint 3** | **Deploy trained model within Flask app.  Test model predictions and UI functionality.  Debug and optimize performance.** |
| **Sprint 4** | **Prepare final documentation.  Record demonstration video.  Final deployment and submission.** |

**Task Allocation:**

|  |  |
| --- | --- |
| **Task** | **Assigned To** |
| Model Training | Mekala Naga Sai Gowtham Raj |
| Flask Backend Development | Mekala Naga Sai Gowtham Raj |
| Frontend UI Design | Mekala Naga Sai Gowtham Raj |
| Testing & Debugging | Mekala Naga Sai Gowtham Raj |

**Timeline & Milestones:**

|  |  |
| --- | --- |
| **Week** | **Tasks & Deliverables** |
| Week 1 | Data collection, preprocessing, CNN model training.  Initial UI wireframe design. |
| Week 2 | Flask routing setup.  Prediction model integration.  Frontend development. |
| Week 3 | Complete system integration.  Test functionalities, fix bugs, optimize UI. |
| Week 4 | Final documentation and project report preparation.  Record demonstration video. |

**Project Tracker, Velocity & Burndown Chart (PoultryDetect+)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint 1 | 20 | 6 Days | 22 July 2025 | 22 July 2025 | 20 | 22 July 2025 |
| Sprint 2 | 20 | 6 Days | 22 July 2025 | 22 July 2025 | 20 | 22 July 2025 |
| Sprint 3 | 20 | 6 Days | 22 July 2025 | 22 July 2025 | 20 | 22 July 2025 |
| Sprint 4 | 20 | 6 Days | 22 July 2025 | 22 July 2025 | 20 |  |

**Average Velocity (AV) Calculation:**

If each sprint has **20 story points** and lasts **6 days**, the team's velocity is:

AV (story points/day)=206≈3.33\text{AV (story points/day)} = \frac{20}{6} \approx 3.33AV (story points/day)=620​≈3.33

So the team completes **3.33 story points per day** on average.

**Burndown Chart Points:**

|  |  |
| --- | --- |
| **Day** | **Remaining Story Points (Sprint 1)** |
| Day 0 | 20 |
| Day 1 | 16.67 |
| Day 2 | 13.34 |
| Day 3 | 10.01 |
| Day 4 | 6.68 |
| Day 5 | 3.35 |
| Day 6 | 0 |