Team ID : LTVIP2026TMIDS24889

**Team Size :** 4

**Team Leader :** Kanaparthi.Aruna Sri

**Team member :** Ganapathi G

**Team member :** Bhavya Tatineni

**Team member :** Divvela Jagadeesh

**5.1 Project Planning – Agile Sprint Breakdown**

**Agile Methodology Overview**

The project was executed using the **Agile methodology**, dividing the development process into short, manageable cycles called sprints. Each sprint lasted **5 working days** and focused on delivering specific functional components of the ServiceNow-based Educational Management System.

**Agile Terminology (Project-Specific Context)**

| **Term** | **Detailed Description** |
|---|---|
| **Sprint** | A time-boxed development period of 5 days during which a predefined set of tasks is completed and reviewed. Each sprint delivers a functional increment of the system. |
| **Epic** | A large functional objective or development phase such as database design, automation logic, or workflow configuration. Each epic may contain multiple smaller tasks. |
| **User Story (Story)** | A specific, implementable task under an epic. Stories define the exact development work required, such as creating a table or implementing calculation logic. |
| **Story Points** | An effort estimation metric based on the Fibonacci sequence (1, 2, 3, 5, 8). Higher points indicate greater complexity, risk, or time requirement. |

**Detailed Sprint Plan**

**Sprint 1 (5 Days) – Foundation Setup**

**Objective:** Establish the core platform structure, database schema, and user interface foundation.

| Epic | Story | Story Points |
|---|---|---|
| Instance Setup | Request and configure the Personal Developer Instance (PDI) in ServiceNow to begin development. | 2 |
| Table Design | Create the Salesforce table to store foundational institutional data. | 2 |
| Table Design | Create the Admission table with necessary fields, choice lists, and reference relationships. | 3 |
| UI Form Layout | Design and organize basic UI form layouts for Salesforce and Admission tables for efficient data entry. | 3 |
| **Total Effort** | | **10 Story Points** |

**Sprint Outcome:**
By the end of Sprint 1, the system had a working database structure and basic form interfaces ready for automation and logic implementation.

**Sprint 2 (5 Days) – Logic & Automation**

**Objective:** Implement business logic, automation features, and workflow visualization.

| Epic | Story | Story Points |
|---|---|---|
| Client Scripting | Configure scripts to auto-populate fields based on selected reference records. | 3 |
| Client Scripting | Develop automation to fetch location details based on pincode input. | 3 |
| Client Scripting | Implement dynamic result calculation logic (total marks, percentage, and result status). | 5 |
| Process Flow | Configure and design admission status workflow (e.g., New → Joined → Closed). | 3 |

| Epic | Story | Story Points |
|---|---|---|
| **Total Effort** | | **14 Story Points** |

**Sprint Outcome:**
At the end of Sprint 2, the system supported automated calculations, intelligent field population, and visual process tracking, significantly reducing manual intervention.

**Sprint 3 (5 Days) – Finalization & Testing**

**Objective:** Complete remaining modules, refine user interface, and perform comprehensive testing.

| Epic | Story | Story Points |
|---|---|---|
| Student Progress Module | Create and link the Student Progress table to the Admission table using reference fields. | 2 |
| Form Design | Customize layout and enhance UI design for Student Progress records. | 2 |
| Client Scripting | Implement automatic total marks and percentage calculation in the Student Progress module. | 3 |
| Testing & Validation | Conduct end-to-end system testing, validate workflows, and verify automation outputs. | 3 |
| **Total Effort** | | **10 Story Points** |

**Sprint Outcome:**
By the completion of Sprint 3, the system was fully functional, tested, and ready for deployment with integrated modules and accurate automation features.

**Sprint Velocity Calculation**

| Metric | Value |
|---|---|
| Total Story Points Completed | 34 Points |
| Number of Sprints | 3 |
| Average Sprint Velocity | Approximately 11.3 Story Points per Sprint |

**Velocity Analysis & Project Insight**

The average sprint velocity of approximately **11 story points per sprint** indicates consistent team productivity and stable workload distribution.

Based on this velocity:

- The team can complete **2–3 medium-complexity features** per sprint.
- Alternatively, the team can complete **1 high-complexity epic** within a sprint.
- Work estimation and delivery remained balanced across development cycles.

This structured Agile approach ensured:

- Incremental development
- Continuous testing and validation
- Reduced project risk
- Improved adaptability to changes