# Project Plan – Contract Monthly Claim System

### 1. Methodology

I will adopt an Agile methodology with iterative development and regular feedback cycles. Agile is chosen because:

* It allows flexibility for changes during development.
* Stakeholders can review prototypes early.
* Smaller deliverables reduce project risk.

### 2. Tasks, Dependencies, and Timeline

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task ID** | **Task** | **Description** | **Dependencies** | **Duration** |
| T1 | Requirements Gathering | Collect requirements from stakeholders (lecturers, admin, finance). | – | 1 week |
| T2 | System Design | Create UML class diagrams, ERD, and architecture. | T1 | 1 week |
| T3 | Database Setup | Define schema, create tables, set up relationships. | T2 | 1 week |
| T4 | Backend Development | Implement models, services, and controllers. | T3 | 2 weeks |
| T5 | Frontend Development | Build Razor Views for claims submission, listing, and approvals. | T4 (partial overlap possible) | 2 weeks |
| T6 | Integration & Testing | Integrate frontend + backend, test claim submission, deletion, approval. | T4, T5 | 1 week |
| T7 | Documentation | Prepare user manual and system documentation. | T6 | 1 week |
| T8 | Deployment & Review | Deploy prototype, gather feedback, final adjustments. | T6 | 1 week |

Estimated Total Timeline: ~8 weeks

### 3. Resources

* Tools & Technologies:
  + ASP.NET Core MVC (Backend)
  + Entity Framework Core (ORM & Database)
  + SQL Server / SQLite (Database)
  + Visual Studio / VS Code (IDE)
  + GitHub / Git (Version control)
  + Bootstrap (UI styling)
* Human Resources:
  + 1 Developer (prototype implementation)
  + 1 Supervisor/Stakeholder (feedback & requirements validation)

### 4. Risks, Assumptions, and Constraints

Risks:

* Changing requirements during development may extend the timeline.
* Limited time for testing could cause undetected bugs.
* Database scaling issues if user load grows.

Assumptions:

* Stakeholders are available for feedback.
* Prototype scope is limited to core claim features (submit, view, delete, approve).

Constraints:

* Time-bound project (must be finished within academic schedule).
* Limited human resources (mostly one developer).
* Only basic security/validation for prototype phase (not production-ready).