6. Development Plan & Timeline

This section defines how the team will execute Deliverable 2 (Software Design Specification) as a continuation of the existing SRS. It covers task partitioning, responsibilities, milestones, and the submission workflow.

6.1 Roles & Responsibilities

Team members:

• Matthew Gallenberger – Person A (Architecture & Diagrams)

• Ryan Schindler – Person B (Class & Architecture Descriptions)

• Nikola Milosavljevic – Person C (Plan, Timeline, Repo Setup)

Partitioning of tasks:

- Person A – Architecture & UML Diagrams
    - Create Software Architecture Diagram (components & connectors: Web UI, App Server, DB, Payment Provider, Notification Service).
    - Create UML Class Diagram (Screening, Auditorium, Seat, Order, Ticket, Payment, User Roles, Policy Values).
    - Export diagrams as PNG/SVG and deliver assets for integration.
- Person B – Class & Architecture Descriptions
    - Write detailed class descriptions (attributes with datatypes; operations with signatures/parameters).
    - Write Architecture explanation (component responsibilities and interactions).
    - Own editorial pass & final merge into master SRS (DOCX/PDF).
- Person C – Development Plan & Timeline (this section) + Repo Setup
    - Initialize GitHub repository and upload prior SRS document.
    - Write this Development Plan & Timeline section and keep it updated based on team inputs.
    - Coordinate submission checklist and ensure each member has ≥1 commit.

6.2 Design Deliverables & Acceptance Criteria

• Architecture Diagram: shows all major components and connectors; exported as image; references match class/section names.

• UML Class Diagram: includes class names, attributes, operations, and relationships (associations/aggregations/inheritance).

• Class & Architecture Descriptions: for every class, list attributes (with datatypes) and operations (with signatures) and describe purpose; provide 1–2 paragraphs that explain the overall architecture.

• Development Plan & Timeline: this section; concise and actionable.

• Final SRS: single DOCX and exported PDF in the repo under /deliverables, with images embedded and section numbering consistent.

6.3 Timeline & Milestones

Target schedule (America/Los_Angeles). Weeks are guidelines; members may work asynchronously as long as handoff dates are met.

Week / Dates	Owner	Focus	Milestone	Handoff Output
Week 1 (Sep 29 – Oct 5, 2025)	Matthew (A)	Architecture Diagram + UML Class Diagram	Draft diagrams ready	PNG/SVG exports + source files
Week 2 (Oct 6 – Oct 12, 2025)	Ryan (B)	Class & Architecture Descriptions	Complete draft text	DOC/MD with class tables & arch description
Week 3 (Oct 13 – Oct 19, 2025)	Ryan (B) + All	Editorial & Merge; light review by all	Final SRS (DOCX/PDF) assembled	Merged DOCX + exported PDF in repo

6.4 Workflow & Submission

1) Repository: GitHub repo with /src (assets), /design (diagrams), /docs (SRS working files), /deliverables (final DOCX/PDF). https://github.com/KypleeFearz/CS250_Group7

2) Branching: simple trunk-based; optional feature branches per person (e.g., feature/uml-diagrams, feature/class-descriptions).

3) Commits: each member must have ≥1 commit (add diagrams, text, or minor fixes).

4) Integration: Person B merges diagrams + text into the SRS template and exports PDF.

5) Submission: push final DOCX/PDF to /deliverables and submit the GitHub link in the course system.

6.5 Risks & Mitigations

• Late handoff of diagrams → Mitigation: placeholders for class names so B can proceed; finalize images before Week 3.

• Format inconsistencies → Mitigation: use the same SRS template; Person B owns one editorial pass in Week 3.

• Missed commit credit → Mitigation: add a small personal change (typo fix or minor edit) if needed before submission.