

Application Development Group Project Deliverables (With Submission Deadlines)

Overview

This document outlines the detailed list of deliverables for students working in a group project on a software application development project. The students (in consultation with course instructor and TAs) are expected to decide the application type, determine its scope, collaboratively develop it, and deploy it on a public platform (preferably free, otherwise paid). **It is assumed that project groups have been formed and project ideas for respective groups have been approved.**

1. Project Proposal Document (Due: 26-Aug-2025)

- Project title and short description
- Application type (web (preferred for admin side), mobile (preferred for client side), hybrid, etc.)
- Motivation/problem statement
- Target users and use cases
- Scope and high-level features
- Technology stack
- Roles and responsibilities
- Timeline with milestones

Deliverable: PDF document (3–4 pages)(in Git repo and Google classroom)

2. Requirements Specification Document (Due: 07-Sep-2025)

- Functional and non-functional requirements
- Detailed User stories / use case diagrams
- Interface requirements
- Wireframes or UI/UX mockups (Initial Draft)
- Acceptance criteria

Deliverable: Business Reqs. Doc. (BRD) (in Git repo and Google classroom).

3. System Design Document (Due: 14-Sep-2025)

- Architecture diagram
- Database schema (ER diagram)
- Class/component diagrams (Add other diagrams for a more detailed design)
- REST API contracts (Swagger/OpenAPI)
- Wireframes or UI/UX mockups (Majorly Final)

Deliverable: Design Doc. + diagrams + mockups (in Git repo and Google classroom)

4. Project Plan / Gantt Chart (Due: 14-Sep-2025)

- Task timeline and milestones
- Team task assignments
- Tools: Trello, Jira, GanttProject

Deliverable: Timeline chart + task board screenshot (in Git repo and Google classroom)

5. Weekly Progress Reports (Weeks 15-Sep to 25-Nov-2025)

- Summary of tasks
- Roadblocks
- Upcoming tasks

Deliverable: Weekly 1-page PDF or shared doc (in Git repo and Google classroom)

6. Mid-Semester Demonstration (Due: 14-Oct-2025)

- Partial working demo
- Code walkthrough
- Team Q&A

Deliverable: Live demo + slides (in Git repo and Google classroom)

7. Test Plan and Test Cases (Due: 04-Nov-2025)

- Unit and integration tests
- Populating DB with meaningful records.
- UI testing (if applicable)
- Bug log (if applicable)

Deliverable: Test documents + results (in Git repo and Google classroom)

8. Final Application (Due: 15-Nov-2025)

- Complete feature set (fully functional app)
- Frontend + backend + database integration
- API integration (on need basis)

Deliverable: Source code + README (in Git repo and Google classroom (zip version))

9. Deployment & Hosting (Due: 15-Nov-2025)

- Hosting on Heroku, Firebase, Vercel, etc.
- Public URL with working app
- Optional CI/CD and basic security configs

Deliverable: Live URL + deployment notes

10. Final Project Report (Due: 18-Nov-2025)

- Summary, system overview, tech stack
- Challenges and solutions
- Screenshots, testing, deployment notes

Deliverable: 15–25 page PDF report (in Git repo and Google classroom)

11. Final Presentation and Demo (Due: 18-Nov-2025)

- Slide deck (10–15 slides)
- Project Poster
- Application demo
- Lessons learned + future scope

Deliverable: Slides (in Git repo and Google classroom) + live presentation

12. Peer Review and Contribution Report (Due: 19-Nov-2025)

- Individual peer reviews
- Self-assessment
- Instructor/TA-only access

Deliverable: Peer review forms (in Google classroom)

Other Important Deliverables

- Project poster (36" x 48") (softcopy and print version) (in Git repo and Google classroom)
- Project video walkthrough
- User manual/help guide (in Git repo and Google classroom)
- API documentation (Swagger/Postman) (in Git repo and Google classroom)
- Dockerized deployment / Helm charts (Preferred)

Suggested Tools and Platforms

- **Version Control:** GitHub, GitLab, or similar.
- **UI Design:** Figma, Adobe XD, or similar.
- **Project Management:** Trello, Jira, or similar.
- **Frontend:** React, Angular, Vue, or similar.
- **Backend:** Node.js, Spring Boot, Django, or similar.
- **Database:** PostgreSQL, MongoDB, MySQL, or similar.
- **Deployment:** Heroku, Vercel, Firebase, AWS Free Tier, or similar.
- **CI/CD:** GitHub Actions, GitLab CI or similar.