

MCA – Ist Semester (Web Technologies Project)

Timeline (19 Aug – 27 Nov 2025)

Week	Dates	Tasks & Milestones
1	19–25 Aug 2025	Project kick-off & planning: Brainstorm ideas, define scope, finalize team roles, assign responsibilities.
2	26 Aug–1 Sep 2025	Create Figma wireframes: for all major pages. Document functional requirements and user stories
3	2–8 Sep 2025	Finalize tech stack . Start Django project setup and define API architecture; design database schema.
4	9–15 Sep 2025	Begin React JS skeleton (components, routing) and integrate basic Django backend .
5	16–22 Sep 2025	Code review #1 (Tuesday, 17 Sep 2025 or any working day during the week) Review initial frontend structure & API design. Start basic integration between frontend and backend.
6	23–29 Sep 2025	Implement core features : API endpoints in Django, database integration, and basic React forms.
7	30 Sep – 6 Oct 2025	Continue feature development. Start unit testing with Django and test APIs using Postman .
8	07–13 Oct 2025	Code review #2 (Tuesday, 8 Oct 2025 or any working day during the week): Review new modules, React components, and API integration.
9	14–20 Oct 2025	Frontend styling (React JS), responsive design, and interactive UI elements.
10	21–27 Oct 2025	Integrate all modules ; test communication between Django backend and React frontend. Start performance optimization . Deployment -1 (on or before Friday, 31 October 2025): Deploy website, update version history, release notes, and finalize documentation.
11	28 Oct–3 Nov 2025	Code review #3 (Tuesday, 29 Oct or any working day during the week): Review integration, UI/UX, and API endpoints.
12	4 Nov–10 Nov 2025	Conduct full testing : unit testing (Django), integration testing, UI/UX testing (React), performance testing. Maintain bug tracking.
13	11 Nov–17 Nov 2025	Code review #4 (Tuesday, 12 Nov or any working day during the week): Review testing results, bug fixes, and optimize performance.
14	18 Nov–24 Nov 2025	Final touches on React components & Django backend. Deployment 2 (on or before 30 th November 2025: Deploy website, update version history, release notes, and finalize documentation.
Final Viva		

Additional Notes & Guidelines:

1. Version Control: Maintain branches for features; merge only after code review.
2. Code Reviews: Every 2nd Tuesday of the month; if Tuesday is a holiday, reschedule to the next class.
3. Deployment: Last Friday of each month; maintain **release notes** describing changes.
4. Testing & Optimisation: One member focuses on QA and performance. The bug tracking sheet must be updated weekly.
5. Documentation: Keep **README** and inline comments updated continuously.
6. For performance and load testing, Lighthouse or Locust can be used
7. Include ESLint / Prettier for React, flake8 or pylint for Django, and type checking (TypeScript/Flow for React or mypy for Python) - Automated code quality checks as part of CI/CD are standard.
8. Maintain **ongoing documentation** (README updates, API docs, code comments)