Project plan/Gantt Chart

(Group : 6)
Annamitra

Task Timeline & Milestones (26 Aug – 20 Nov)

Week	Duration	Key Tasks / Milestones	Roadblocks / Challenges	Planned / Next Steps
Week 1	15 – 21 Sept	• Finalized DB schema (User, Donation, NGO, Volunteer, Proof, Feedback). • Set up backend (Node.js + Express). • Connected MongoDB for initial testing. • Defined basic API endpoints.	• Confusion in linking Donor–NGO–Volunteer relationships. • Uncertainty between PostgreSQL vs MongoDB choice.	• Finalize database choice. • Begin UI/UX wireframes & static page design.
Week 2	22 – 28 Sept	• Started wireframes (Home, About, Contact, role-based pages). • Created static frontend pages.	• Layout issues for multi-role dashboards. • Responsive design problems.	• Implement donation/donor functionality. • Finalize models, controllers, helpers.

		• Defined routes for static pages.	• Route segregation confusion (public vs private).	• Integrate mock frontend with APIs.
Week 3	29 Sept – 5 Oct	• Developed Donation model & controller. • Implemented donor functionality (Create, Update, View Donations). • Added NGO request flow.	• Handling many-to-many relationships (Donor ↔ NGO ↔ Donation). • Multiple NGO requests conflict.	• Add authentication & authorization. • Finalize role-based access. • Start backend testing.
Week 4	6 – 12 Oct	• Implemented authentication (Passport Local). • Secured routes by role. • Completed UI for login/signup and dashboards. • Started frontend-backend connection.	• Session & redirect issues in Passport integration. • API connectivity problems (CORS).	• Fix CORS/map issues. • Conduct internal testing. • Draft documentation.

Week 5	13 – 19 Oct	• UI polish & validation checks. • Notification system (Firebase/SMS mock). • Dummy account user testing. • Added NGO-side features.	–	• Integration & bug testing. • Performance optimization.
Week 6	20 – 26 Oct	• Functional & integration testing. • Bug fixing & performance tuning. • Captured screenshots & video demo.	–	• Prepare documentation & PPT. • Schedule review meeting.
Week 7	27 Oct – 2 Nov	• Documentation & presentation draft. • Internal review meeting. • UI/UX feedback applied.	–	• Final testing & polishing.

Week 8 (Final Stretch)	3 – 20 Nov	• Final build submission. • Presentation rehearsals. • Delivered final submission (20 Nov).	–	

Team Task Assignments

Member	Role	Key Responsibilities
Hardip, **Aakash**, **Kashish S.**	**Backend Developers / Database Leads**	Designed and optimized the database schema (MongoDB), developed RESTful backend APIs, implemented authentication and authorization modules, and handled donation and request management workflows.
Honey, **Bhumi**, **Mohit**	**Frontend Developers**	Developed responsive user interfaces using modern web technologies (EJS/React + Tailwind), integrated APIs with backend services, and implemented donor, NGO, and volunteer dashboards.
Mohit, **Kashish K.**	**UI/UX Designers**	Designed intuitive wireframes and mockups, created consistent UI layouts for all roles, and ensured usability and accessibility across web and mobile views.
Anirudh, **Rajvi**	**System Analysts / UML Designers**	Created detailed SRS and UML diagrams (Use Case, Class, DFD, ERD), defined system architecture, and ensured alignment between functional and technical requirements.
Kashish S.	**Project Manager**	Planned and tracked development milestones using Trello & Jira, managed task allocation, monitored sprint progress, and coordinated communication across all teams.
Mohit	**Tester & Documentation Lead**	Conducted unit, integration, and user acceptance testing, validated end-to-end functionality, and prepared final documentation, reports, and presentation materials.

Tools Used

s

Category	Tool / Technology	Purpose / Description
Frontend Development	**JavaScript (React)**	Designed responsive user interfaces and dashboards for donors, NGOs, and volunteers.
Backend Development	**Node.js, Express.js**	Implemented server-side logic, API routes, and middleware for all modules.
Database	**MongoDB (Mongoose ODM)**	Managed storage of user, donation, and request data using a flexible NoSQL schema.
Authentication & Security	**Passport.js (Local Strategy)**	Provided user authentication and session management for role-based access control.
Version Control	**Git, GitHub**	Used for source code management, collaboration, and version tracking.
UI/UX Design	**Figma**	Designed wireframes and UI layouts ensuring a clean and intuitive user experience.
Project Management	**Trello, Jira**	Planned sprints, tracked tasks, and monitored project progress and milestones.

Testing & Debugging	Postman	Tested REST API endpoints and verified backend responses.
Documentation & Reporting	MS Word, Google Docs	Prepared project reports, SRS, and final presentation documents.

Project Progress Summary (as of Oct 9)

- UML Diagrams → Completed
- Backend APIs → 80% Done
- Database Integration → Done
- Frontend UI → Under Progress
- Testing + Documentation → To be started after Oct 20

GANTT CHART:

Anna Mitra Project Timeline