

Task Assignment & Roles

1. Mahmoud Ramadan

Role: Project Manager & Backend Developer

Tasks:

Project Planning & Management:

1. Create and maintain the project timeline (Gantt Chart).
2. Monitor progress and ensure deadlines are met.
3. Conduct team meetings and provide updates.

Backend Development:

1. Develop API routes using Next.js API Routes.
2. Implement user authentication using JWT.
3. Set up PostgreSQL database and manage data models.
4. Implement real-time features using Socket.io.

Testing & Debugging:

1. Write unit tests and integration tests for backend functionality.
2. Debug and resolve backend issues.

Final Presentation & Reports:

1. Prepare the final project presentation (PPT/PDF).
 2. Create technical documentation for the backend.
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2. Youssef Munir

Role: Frontend Developer & Requirements Analyst

Tasks:

Requirements Gathering:

1. Collect and document functional and non-functional requirements.
2. Create user stories and use cases.

Frontend Development:

1. Develop the user interface using Next.js and Tailwind CSS.
2. Implement features like user authentication, posts, stories, and notifications.
3. Ensure the application is fully responsive.

Assistance in Implementation:

1. Collaborate with the backend team to integrate APIs.
2. Assist in debugging and resolving frontend issues.

Testing & Debugging:

1. Write unit tests for frontend components.
 2. Test the application for usability and responsiveness.
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3. Hager Zain El-Abdeen

Role: Frontend Developer

Tasks:

System Analysis & Design:

1. Create Use Case Diagrams, DFDs, and ER Diagrams.
2. Design the database schema and relationships.

Frontend Development:

1. Implement the designed UI components.
2. Ensure consistency in design across all pages.

Assistance in Implementation:

1. Collaborate with the backend team to integrate APIs.
2. Assist in debugging and resolving frontend issues.

4. Malak Emad

Role: Frontend Developer

Tasks:

System Analysis & Design:

1. Assist in creating Use Case Diagrams, DFDs, and ER Diagrams.
2. Help design the database schema and relationships.

Frontend Development:

1. Implement the designed UI components.
2. Ensure responsiveness and cross-browser compatibility.

Assistance in Implementation:

1. Collaborate with the backend team to integrate APIs.
2. Assist in debugging and resolving frontend issues.

Collaboration & Communication

Tools:

1. **GitHub:** For version control and code collaboration.
2. **Telegram:** For team communication and updates.
3. **Notion:** For task management and tracking progress.

Meetings:

1. Weekly team meetings to discuss progress and challenges.

Key Deliverables

- **Project Proposal & Plan:** Mahmoud Ramadan.
- **System Design & Database Schema:** Hager Zain El-Abdeen & Malak Emad.

- **Frontend Development:** Youssef Munir, Hager Zain El-Abdeen, & Malak Emad.
- **Backend Development:** Mahmoud Ramadan.
- **Testing & Debugging:** Mahmoud Ramadan & Youssef Munir.
- **Final Presentation & Reports:** Mahmoud Ramadan.