

Milestones

1. Project Setup and Planning (1 day)

- Initialize Git repository.
- Setup project folders for backend and frontend.
- Define `.env` and configuration templates for secrets.

2. Database & Backend Foundation (2-3 days)

- Design PostgreSQL schema and create initial EF Core models.
- Setup `DbContext` and run first migration.
- Seed roles (`Admin`, `User`).

3. Authentication & Authorization API (3-4 days)

- Implement JWT auth with local signup/login.
- Implement refresh token mechanism.
- Build middleware for role-based authorization.

4. OAuth Integration (2 days)

- Configure Google and GitHub OAuth providers.
- Implement user creation or lookup on successful OAuth login.

5. Frontend UI (Login, Signup, Navigation) (2-3 days)

- Implement login/signup pages using React + Bootstrap.
- Handle local and OAuth flows on frontend.
- Implement user state management (JWT handling).

6. User Management UI (CRUD) (3 days)

- Build user table and CRUD forms.
- Add conditional rendering for Admin-only actions.

7. Testing & Security Enhancements (2 days)

- Add integration tests for auth flows.
- Enable HTTPS, add rate-limiting and CORS handling.

8. Deployment (1 day)

- Deploy to chosen environment (Docker, Azure, AWS).
- Setup environment variables, DB migrations, and monitoring.