

Objective

Build a User Management System with Django REST Framework (backend) and a simple JavaScript frontend. The application should demonstrate authentication, profile management, and CRUD operations.

Requirements

1. Authentication

- Implement User Registration (username, email, password).
- Implement Login & Logout using JWT token authentication.
- Only authenticated users can access their profile and CRUD features.

2. Profile Management

- Each user has a profile with:
 - Full name
 - Date of birth
 - Email
 - Address
 - Gender
 - Mobile Number
- Users should be able to:
 - View their profile
 - Update their profile
 - Reset Password

3. CRUD Module

- Create a simple entity, e.g., Notes or Tasks with fields:
 - Title (String)
 - Description (Text)
 - Created_at (Auto Generated)
 - Modified_at (Auto Generated)
 - Attachment (File Field)

- APIs required:
 - Create a note/task
 - List all notes/tasks (only for logged-in user)
 - Update a note/task
 - Delete a note/task

4. Frontend (Basic)

- A minimal JavaScript frontend (HTML, JS, JQuery) to:
 - Register & login
 - View profile & update profile
 - Perform CRUD operations on tasks/notes

Technical Expectations

- Backend: Django, Django REST Framework, SQLite/Postgres/MySQL
- Frontend: Any JS
Authentication: JWT
Code should follow best practices (PEP8, modular structure)
- Use Git for version control

Deliverables

1. A GitHub/GitLab repository with:
 - Full code with fronted and backend code
 - README.md with setup instructions
 - Requirements.txt
2. API documentation (Swagger / DRF browsable API / Postman collection).
3. Deployed application on any platform with live link provided

Bonus (Optional)

- Unit tests for APIs
- Pagination & search in CRUD APIs

Time

- Expected time: 1 day (within 24 hours of assignment start)
- Submit within 48 hours from assignment start.