Writeup for mAadhar Application

- Begin

- Design the database schema to store user information, Aadhar application details

- Backend

- Implement RESTful APIs for registration, login, applying for a new Aadhar card, updating Aadhar details, applying for a duplicate Aadhar card, and applying to close Aadhaar card (due to death).

- Use Spring Boot to simplify API development.

- Utilize JPA and Hibernate for object-relational mapping to interact with the MySQL database.

- Frontend

- Develop a user-friendly web application where users can register, login, and perform other Aadhar-related operations.

- Use Angular as the frontend framework to build dynamic and responsive web pages.

- Utilize Bootstrap for easy styling and layout.

- Use HTML/CSS for designing the user interface.

- Admin Portal

    - Login through admin credentials
    - Approve new Aadhaar Card request
    - Verify request for duplicate Aadhaar
    - Display all issued Aadhaar Card
    - Delete Aadhaar card details for dead citizen

- User Portal

    - Sign in to apply for a new Aadhar Card
    - Login to see the Aadhar number assigned by the admin

    - Update address, phone number, and date of birth of Aadhaar
    - Request duplicate Aadhaar Card

- Automation and Testing

- Implement test automation using Selenium and TestNG for functional and integration testing.
- Write test cases to validate different functionalities of the application

- DevOps
- Use Git for version control to manage the source code.
- Host the code repository on GitHub for collaboration and easy access.
- Set up a Jenkins pipeline for continuous integration and deployment.
- Use Docker to containerize the application for easier deployment and scalabilit

- End