



Full Stack Java Developer

Capstone Project



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mAadhar Application – writeup

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Problem statement:

Develop an application to automate the process of applying for an Aadhar Card by making it smoother for Indian citizens.

Scenario:

Varniraj Service PVT. LTD is closely working with “The Government of India” to help them get a solution for processing applications for Aadhaar Card.

Application is intended to register citizens and let them display ID to process their Aadhar Card application.

Steps involved in the procedure:

Step 1: create a registration page

Step 2: And then enter the login page

Step 3: Then applied for a new Aadhar card

Step 4: And then place a request for updating the Aadhar details

Step 5: In this procedure Admin part – to approve the Aadhar application and issue a new Aadhar number

Step 6: Then apply to close the Aadhar card (due to death)

The technologies should be used:

- **Database:** MySQL
- **Backend:** Java Programming (Spring Boot, JPA, Hibernate)
- **Frontend:** Angular, Bootstrap, and HTML/CSS
- **Automation and testing technologies:** Selenium and TestNG

- **DevOps tools/technologies:** Git, GitHub, Jenkins, and Docker.

Admin Portal:

The admin portal deals with all the backend data generation. The admin user should be able to:

- 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:

It deals with user activities. The end-user should be able to:

- 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 Card

Request duplicate Aadhaar Card.

Front-end validation part:

- For admin: The password should have at least: One Uppercase, one lowercase, one special character (@, #, &....), and one number.
- For citizens: The password should consist of only digits.

Back-end Validation part:

- Mobile number validation should be applied.
- Password length should not be less than 6 characters.
- For citizens: The home page would authenticate only if the mobile number provided in Aadhaar is matching with the password.

The input data for Backend Rest API:

➤ To register for the new citizens:

HTTP Method: POST

URL: <http://localhost:6789/AadharApp/citizens>

Request Body:

```
{
  "name": "Uttam Patel",
  "dob": "2011-08-23",
  "address": "2/5 Heerabagh Flats",
  "emailId": "uttampatel0811@gmail.com",
  "mobile No": "7976694711",
  "gender": "Male"
}
```

➤ Apply for Aadhar Card using an existing citizen ID:

HTTP Method: POST

URL: <http://localhost:6789/AadharApp/issueAadhar>

RequestBody:

```
{
  "citizenId": 1002,
  "passportId": null,
  "issueDate": "2020-04-25"
}
```

GITHUB-LINK:

<https://github.com/bhushanbisane/Capstone-project-Madhaar-app.git>

Link for Application Screenshots:

<https://github.com/bhushanbisane/Capstone-project-Madhaar-app/tree/main/Snaps>