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**Full Stack Java Developer**

**Capstone Project**



**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/Gopalakrishnan20/Capstone-Project-mAadhar-Application.git**](https://github.com/Gopalakrishnan20/Capstone-Project-mAadhar-Application.git)