



## Test Task for Full-Stack Web Developer (3 Hours)

### Objective:

Build a login and registration system with added complexities, including dynamic validations, secure data handling, and logical constraints.

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### Task Description:

#### Frontend (React/Angular):

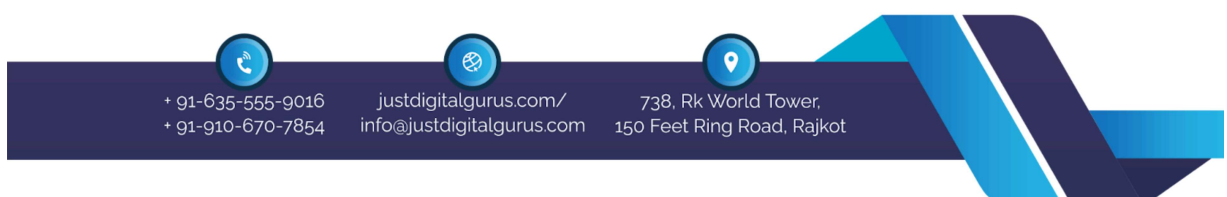
1. Create two pages:

- **Registration Page:**

- Fields: Name, Email, Password, Confirm Password, Date of Birth.
- Dynamic Validation Logic:
  - Name: Must not contain any numbers or special characters.
  - Email: Must be unique (backend validation required).
  - Password:
    - Must contain at least 8 characters, including uppercase, lowercase, a number, and a special character.
    - Cannot include the user's name or email substring.
  - Date of Birth: Must verify that the user is at least 18 years old.
- Style using Bootstrap.

- **Login Page:**

- Fields: Email, Password.
- Backend validation required.
- Include a "Forgot Password" link (logic handled by backend, but only a stub implementation is required).



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2. After a successful login, redirect to a **Profile Page** displaying the user's details (fetched from the backend).

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### Backend (Laravel or PHP):

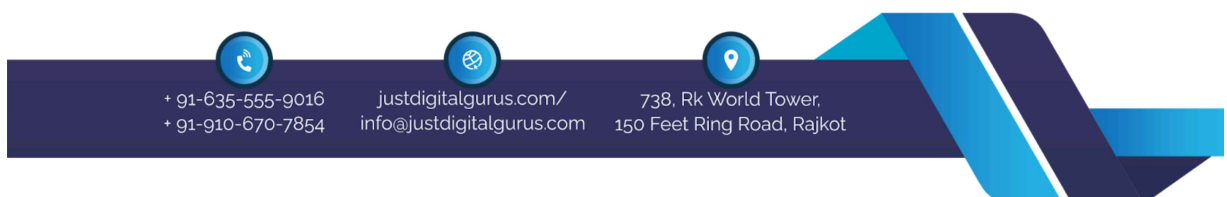
#### 1. API Endpoints:

- **Registration (POST /api/register):**
  - Accept Name, Email, Password, and DOB.
  - Validate all fields as per the frontend requirements.
  - Hash the password securely before saving.
  - Store the user data in the database.
  - Respond with appropriate error messages for validation failures.
- **Login (POST /api/login):**
  - Accept Email and Password.
  - Validate against stored user data.

If the user enters the wrong password **three times consecutively**, lock their account for 15 minutes and return an error message like:

```
{ "message": "Account locked. Try again after 15 minutes." }
```

- If login is successful, return a token for session management.
- **Check Email Uniqueness (GET /api/check-email?email=example@mail.com):**
  - Validate if the provided email is already registered.



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## 2. Database Structure:

- **users** Table/Collection:
  - ID
  - Name
  - Email
  - Password (hashed)
  - Date of Birth
  - Failed Login Attempts (default: 0)
  - Account Lock Time (nullable)

---

### Additional Challenges:

1. During **registration**, implement logic to generate a unique **User ID** that starts with the user's initials and includes a random 4-digit number (e.g., for **John Doe**, the ID could be **JD8734**).
2. Implement a backend utility function to periodically clear account locks after 15 minutes.

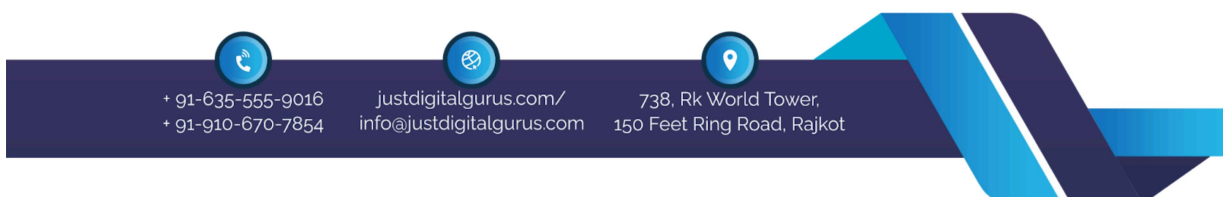


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### Optional (Bonus):

1. Add a **"Forgot Password" feature**:
  - Endpoint: **POST /api/forgot-password**
  - Accept Email.
  - Return a mock response with a randomly generated password reset token.
2. Write test cases to validate the backend logic.



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### Submission Guidelines:

1. Submit the source code in a **GitHub repository** with "Yourname-test-task-jdg" .  
Mail to : [dev@justdigitalgurus.com](mailto:dev@justdigitalgurus.com) , cc : [nishchay@justdigitalgurus.com](mailto:nishchay@justdigitalgurus.com)
2. Include a **README.md** explaining:
  - How to set up and run the application.
  - Any challenges faced or assumptions made.

### Evaluation Criteria:

- Logical correctness of registration and login features.
- Proper handling of edge cases (e.g., email uniqueness, account lock logic).
- Code quality, readability, and security practices (e.g., password hashing).
- Efficient use of frontend and backend integration.
- Bonus points for implementing optional features.



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# BEST OF LUCK



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