# **TODO** application

#### **Use Cases:**

- 1. User should be able to login
- 2. User should be able to logout
- 3. User should be able to create account
- 4. User should be able to Forgot password
- 5. User Should be able Change their Password
- 6. User should view the todo list
- 7. User should be able to create todo items
- 8. User Should be able to Delete Todo items
- 9. User should be able to mark completed todo

### **API Endpoints:**

#### **Authentication**

- 1. POST /create → Create Account
- 2. POST /login → Login User
- 3. POST /logout → Logout User

#### **User Profile**

- 4. GET /me → Get User Profile
- 5. PUT /me  $\rightarrow$  Update Profile
- 6. PUT /me/password → Change Password

#### **Todo Management**

- 8. GET /items → Get All Todo Items
- 9. POST /items → Create Todo Item

- 10. DELETE /items/ $\{id\}$   $\rightarrow$  Delete Todo Item
- 11. PUT /items/ $\{id\}$ /complete  $\rightarrow$  Mark Todo as Completed

# Schema:

## **User Table**

Column	Data Type	Constraints	Description
id	INT	PK, AUTO_INCREMENT	Unique User ID
fn	VARCHAR(50)	NOT NULL	First Name
In	VARCHAR(50)	NOT NULL	Last Name
email	VARCHAR(100)	UNIQUE, NOT NULL	User Email (Login ID)
password	VARCHAR(255)	NOT NULL	Hashed Password
photo_url	VARCHAR(255)	NULL	Profile Photo Path
created_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	Account Creation Date

#### **Todos Table**

Column	Data Type	Constraints	Description
id	INT	PK, AUTO_INCREMENT	Unique Todo ID
user_id	INT	FK → users(id), NOT NULL	User who owns the Todo
task	VARCHAR(255)	NOT NULL	Todo Task Description
status	ENUM	DEFAULT 'pending'	Task Status (pending / completed)
created_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP	Task Creation Date

### **Tech Stack:**

• Frontend: ReactJS

• Backend: Node.js (Express.js)

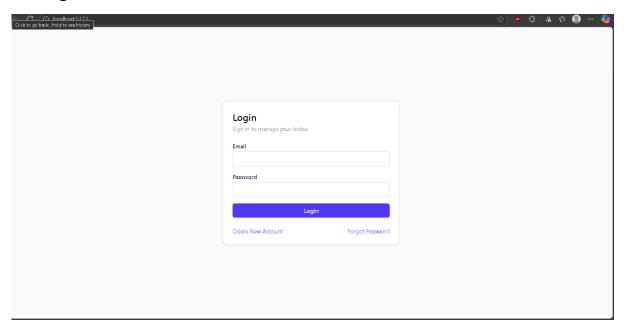
• Database: MySQL

• Authentication: JWT

• Password Security: Bcrypt

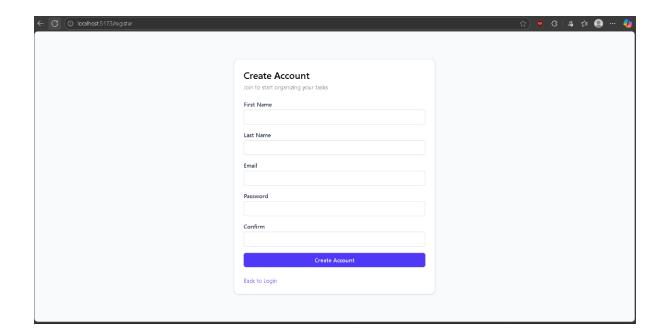
### Work Flow:

## 1. Home Page:

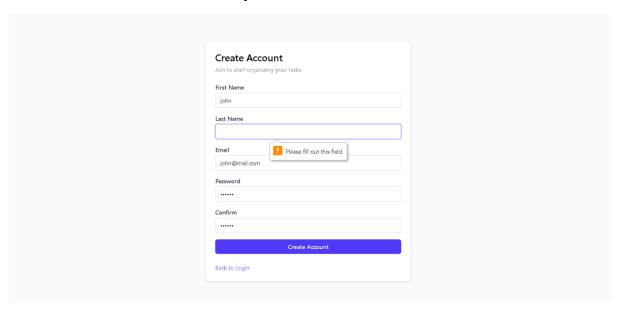


#### 2.User Registration

- Endpoint: POST /create
- User enters First Name, Last Name, Email, Password.
- If email is unique, account is created.
- Screenshot: Registration form.

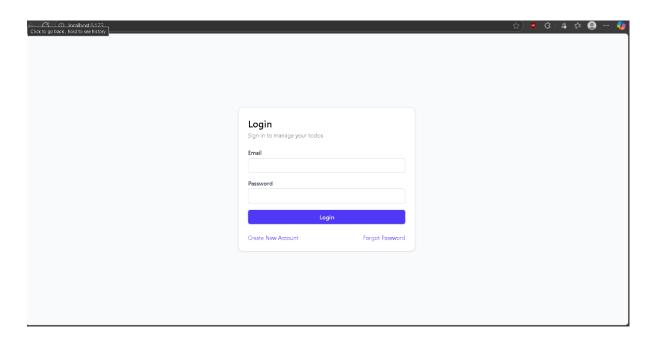


# There is validation check in every form if the input field is empty or invalid character and also for email input

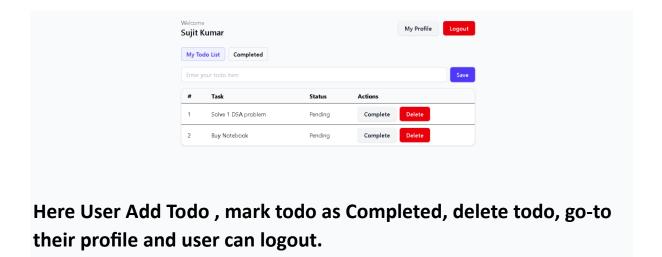


#### 3.User Login

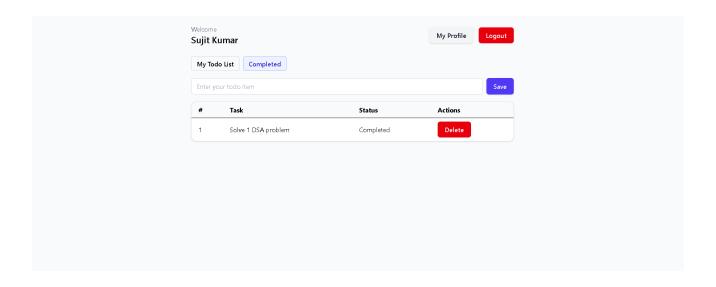
- Endpoint: POST /login
- User enters **Email + Password**.
- On success → API returns a **JWT Token**.
- Screenshot: Login form



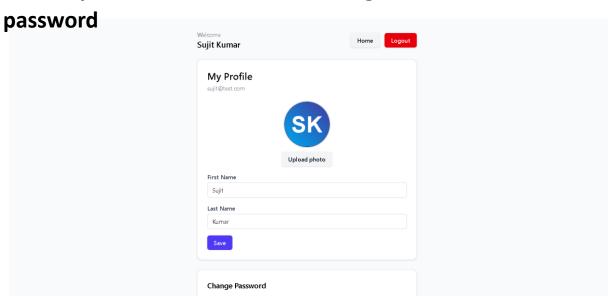
# **After Login:**



# When User Click on Completed the todo will move in the completed tab



Now In profile section user can change their name and also



# From profile page the user also change password by using old password and then new password

Old Password

