

## **Requirement Analysis:**

### **Admin section:**

1. This is a multi user system to perform interactions between normal user and admin
2. A admin can do signup using manual information (name, email, password
3. Admin can do sign in
4. A admin is able to do logout from the system
5. Admin is able to perform all operation after sign in
6. Admin can update his profile information
7. Admin can update his profile picture
8. Admin change his password
9. Admin can see activity log
10. Admin can add new user
11. A new user can login added by admin
12. Admin can update an existing user information
13. Admin can delete temporary or soft delete user
14. Admin can search user with pagination and de-bouncing

### **User section:**

1. User can do login
2. User can do logout
3. User can change his password
4. User can update his profile picture
5. User can update his profile information.

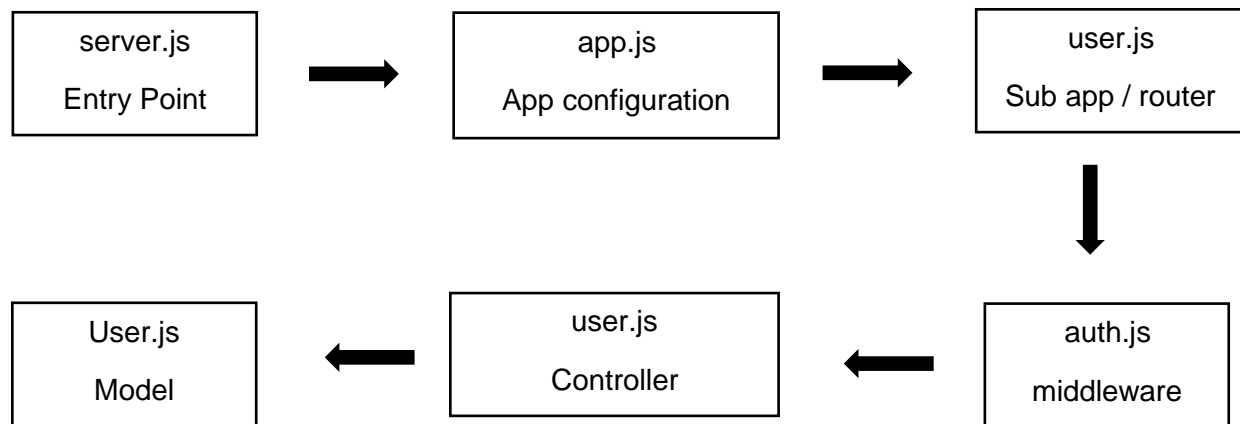
## **Technologies are used:**

1. Javascript ( programming language )
2. NodeJs, ExpressJs ( backend )
3. JWT ( authentication )
4. ReactJs ( frontend )
5. Redux, Redux Toolkit ( state management library )
6. MongoDB ( NoSql Database )
7. Mongoose ( ORM )
8. Styled-components ( Styling )
9. Multer, axios, Bcryptjs, express-validator, http-errors, jsonwebtoken, momentjs, uuid, js-file-download, jwt-decode, react-router-dom(v6) [ others third-party librar

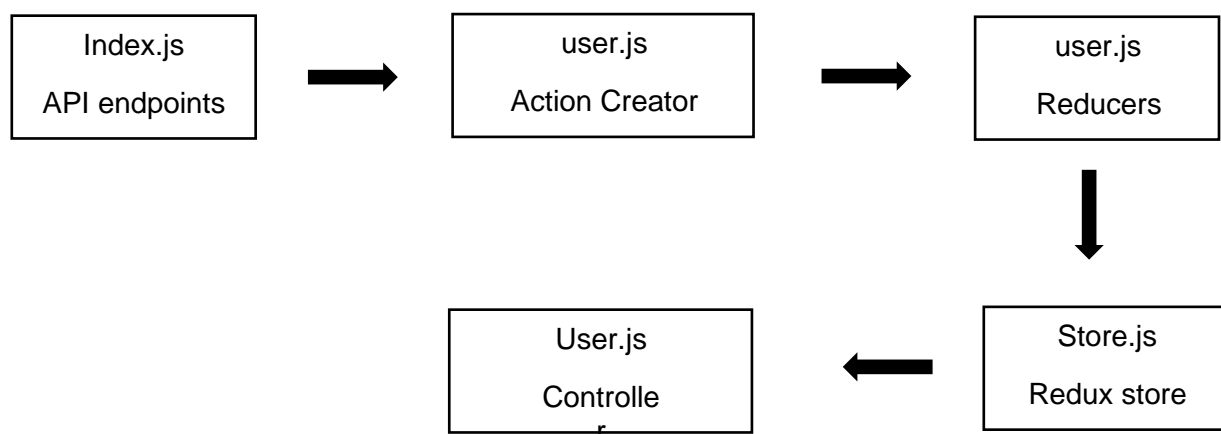
## All Backend API End Points:

1. Post("/admin") → Create admin user manually
2. Get("/auth") → Signin user
3. Patch("/admin/:id") → Upload profile, update profile
4. Patch("/admin/change-password/:id") → Change password
5. Get("/admin/activity-logs") → Get activity logs
6. Post("/users") → Add new user
7. Patch("/users/:id") → Update an existing user
8. Get("/users/:id") → Get single user
9. Get("/users/all") → Get all user
10. Get("/users") → Search user
11. Patch("/users/delete/:id") → Delete temporary user

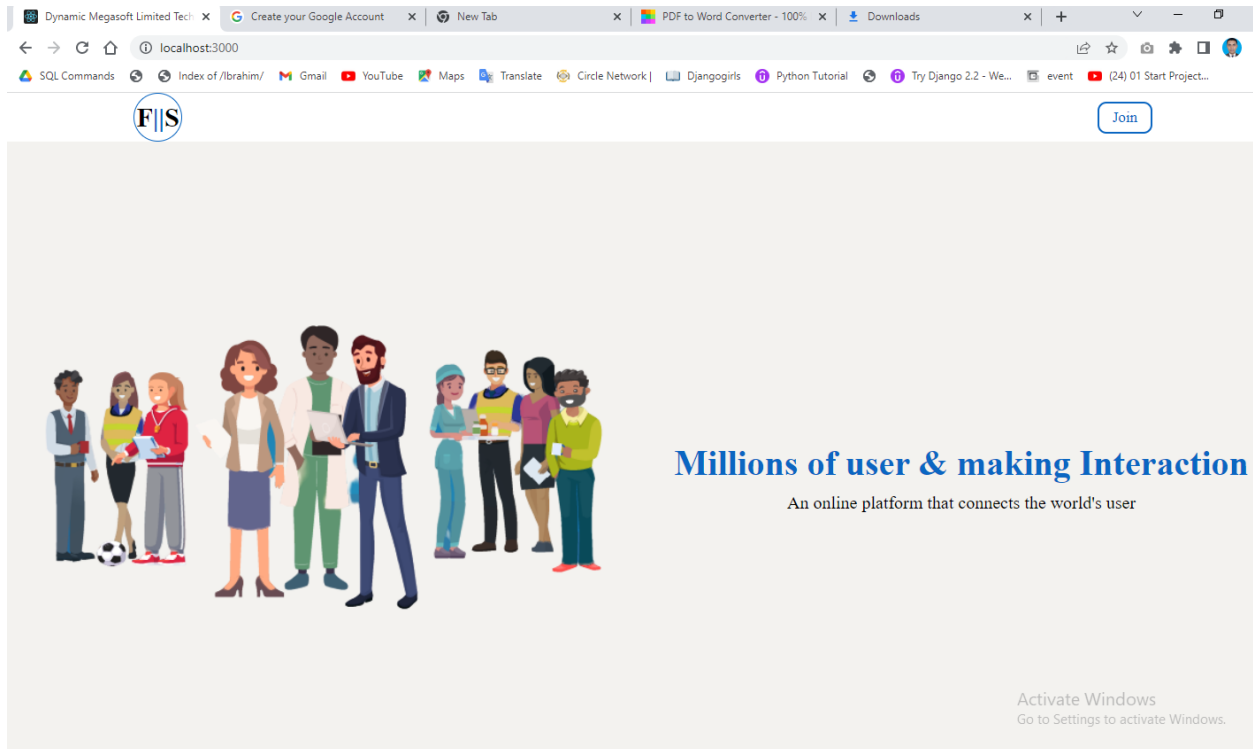
## Backend Coding Structure:



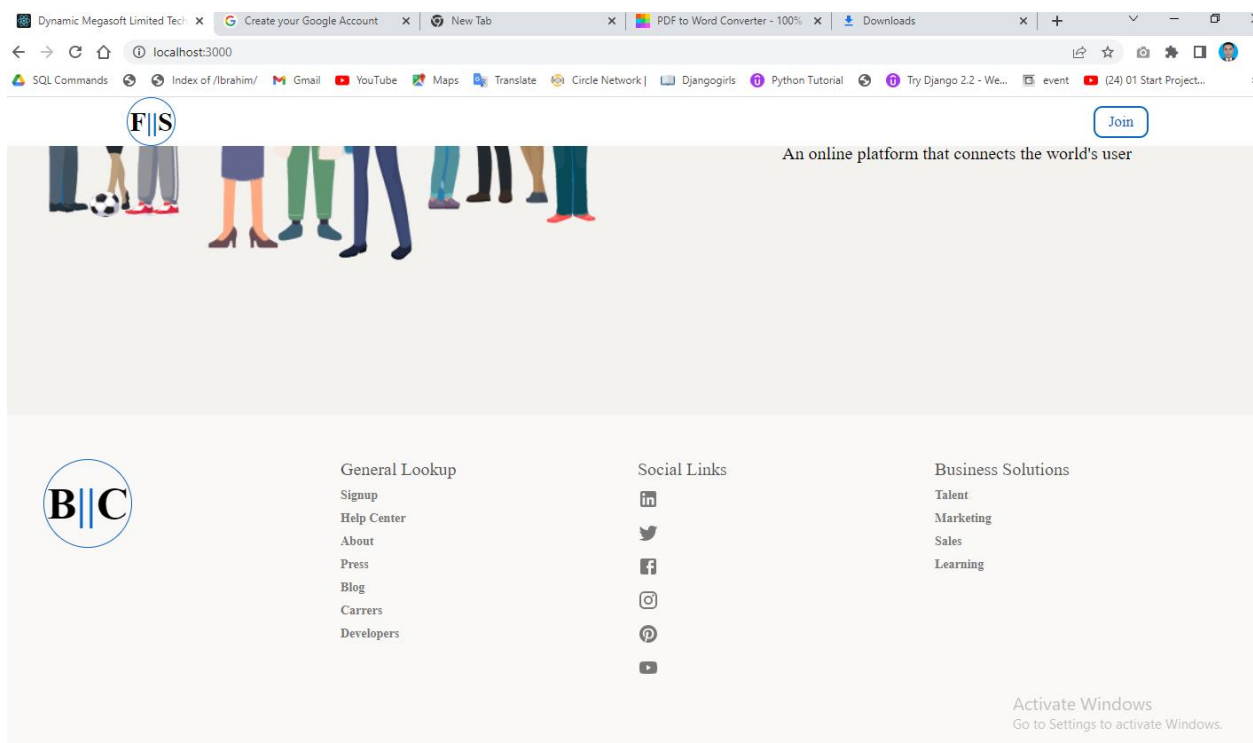
## Frontend Coding Structure:



**Note:** All codes are implemented by following Javascript modularity, clean coding, well documented comme



## Home page



## Footer

You can navigate home page to join page by clicking respectively logo(left) & join(right) button

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localhost:3000/login

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F||S Join

## Signin

Email

Password (8 or more characters)

Signin

[Don't have an account ? Signup](#)

Activate Windows  
Go to Settings to activate Windows.

Sign in page

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localhost:3000/login

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F||S Join

## Create an Account

Name

Email

Password (8 or more characters)

Confirm Password

Signup & Join

[Already signup ? Signin](#)

Activate Windows  
Go to Settings to activate Windows.

Signup page

The screenshot shows a web browser window with the address bar displaying 'localhost:3000/login'. The browser's tab bar includes 'Dynamic Megasoft Limited Tech', 'Create your Google Account', 'New Tab', 'PDF to Word Converter - 100%', and 'Downloads'. The browser's bookmark bar contains 'SQL Commands', 'Index of /Ibrahim/', 'Gmail', 'YouTube', 'Maps', 'Translate', 'Circle Network', 'Djangogirls', 'Python Tutorial', 'Try Django 2.2 - We...', 'event', and '(24) 01 Start Project...'. The website's header features a logo with the letters 'F||S' and a 'Join' button. The main content area displays a 'Create an Account' form with the following fields and validation messages:

- Name:** A text input field with a red border and the message 'You should provide a valid name' below it.
- Email:** A text input field with a red border and the message 'You should provide a valid email address' below it.
- Password (8 or more characters):** A password input field with a red border, a toggle eye icon, and the message 'You should provide a valid credential' below it.
- Confirm Password:** A text input field.

Below the fields is a blue 'Signup & Join' button and a link that reads 'Already signup? Signin'. In the bottom right corner, there is a 'Activate Windows' watermark with the text 'Go to Settings to activate Windows.'

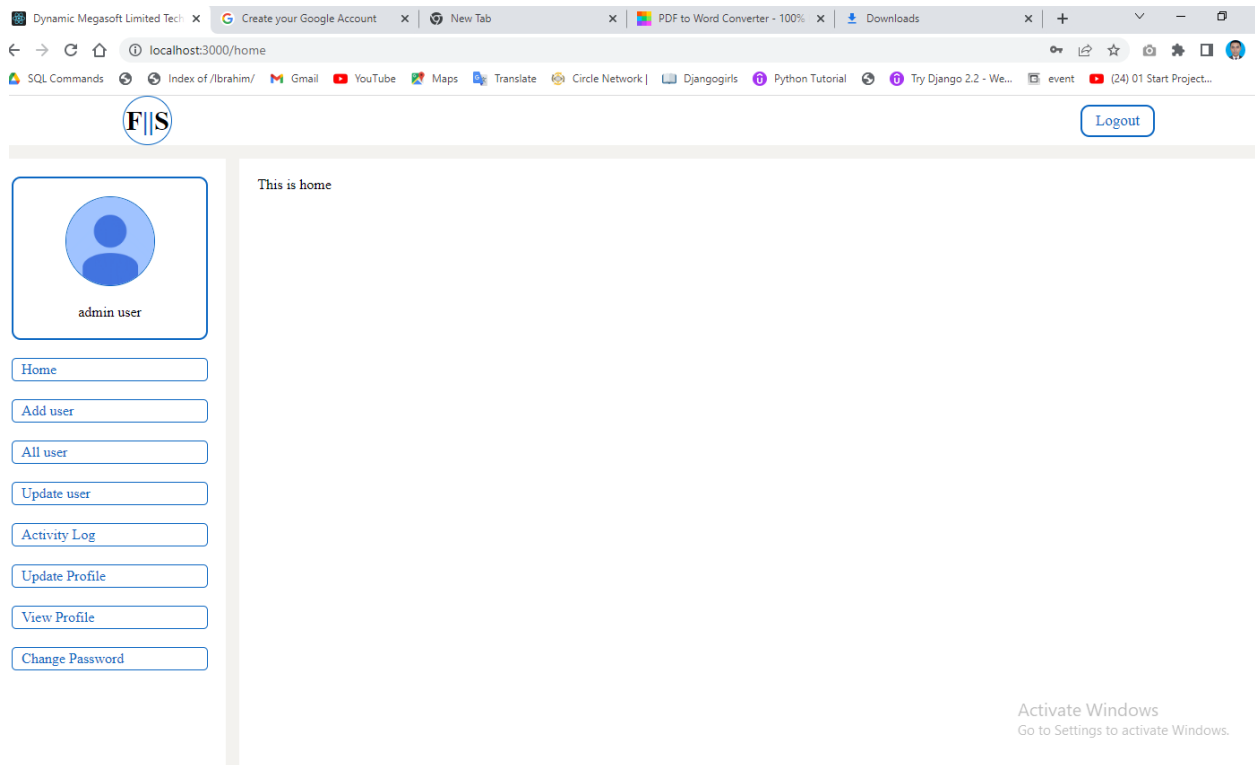
### Validation before a signup admin user

An admin user has to pass within some validation before signup. There are some frontend validation like **invalid name**, **password doesn't match** and there are some backend validation like **user already exist**, or **numeric value and at least one special char**, **strong password**.

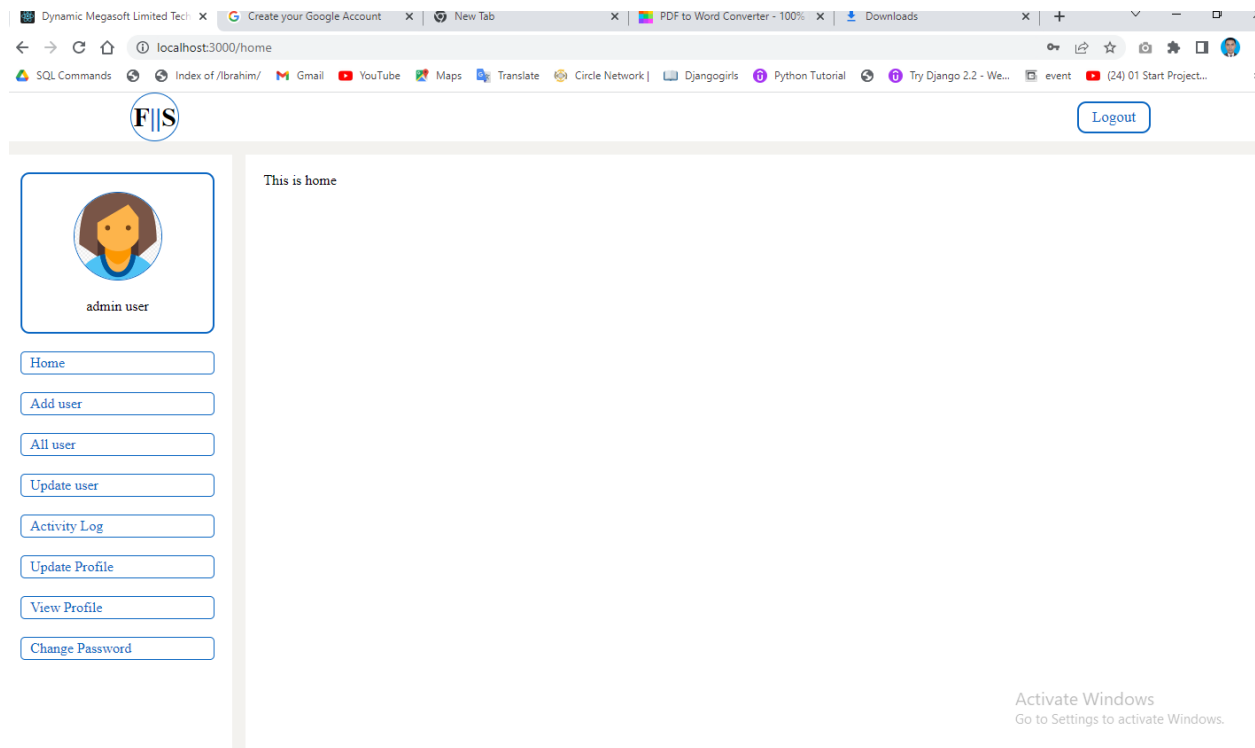
This is the end of the authentication system. I have used JWT for authentication and Bearer Access\_Token for authorization. I stored password as encrypted format, I have used bcryptjs for hashed password. I have used JWT sign method for access\_token.

As for the frontend I have used a separate redux file for state management and used axios for http request.

## Admin Section:



## Home page after first signup



## Admin home after change profile




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localhost:3000/update-profile

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**F||S** Logout



admin user

Home

Add user

All user

Update user

Activity Log

Update Profile

View Profile

Change Password

### Update profile

Name  
admin user

Email  
admin@test.com

Phone  
+0888875544333

Present Address  
xyz

Permanent Address  
xyz

City  
xyz

Country  
xyz

Profile  
Choose File No file chosen

Update Profile

Activate Windows  
Go to Settings to activate Windows.


## Admin update profile change

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localhost:3000/view-profile

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**F||S** Logout



admin user

Home

Add user

All user

Update user

Activity Log

Update Profile

View Profile

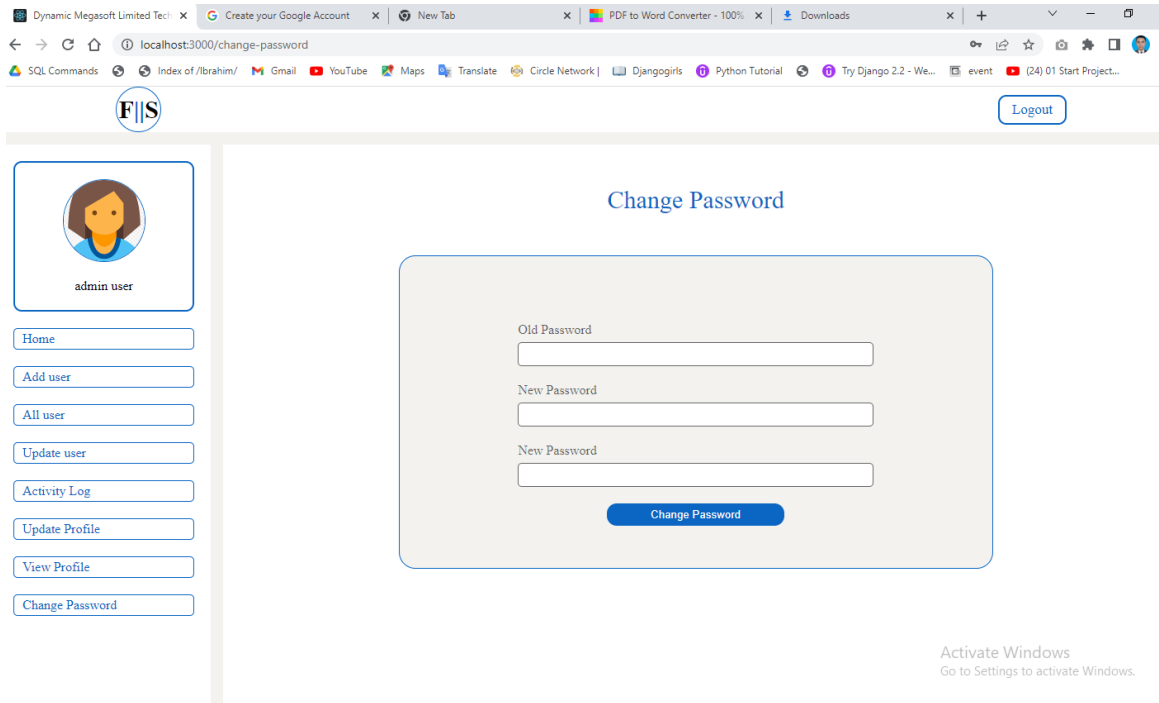
Change Password

### Your Information

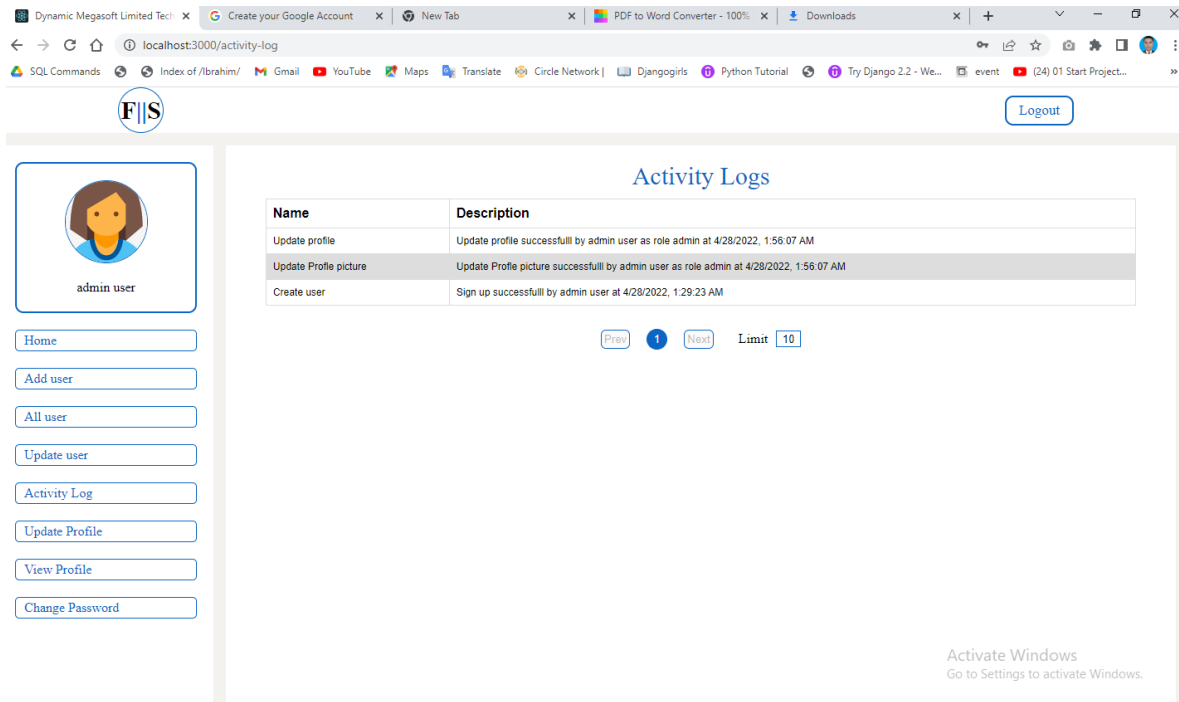
Name	Information
ID	
Name	admin user
Email	admin@test.com
Phone	+0888875544333
Present Address	xyz
Permanent Address	xyz
City	xyz
Country	xyz

Activate Windows  
Go to Settings to activate Windows.

## Admin view profile



## Admin change password



## Admin activity log with pagination

This is server side pagination with previous button, next button, jump to particular page, page size

## Add new user

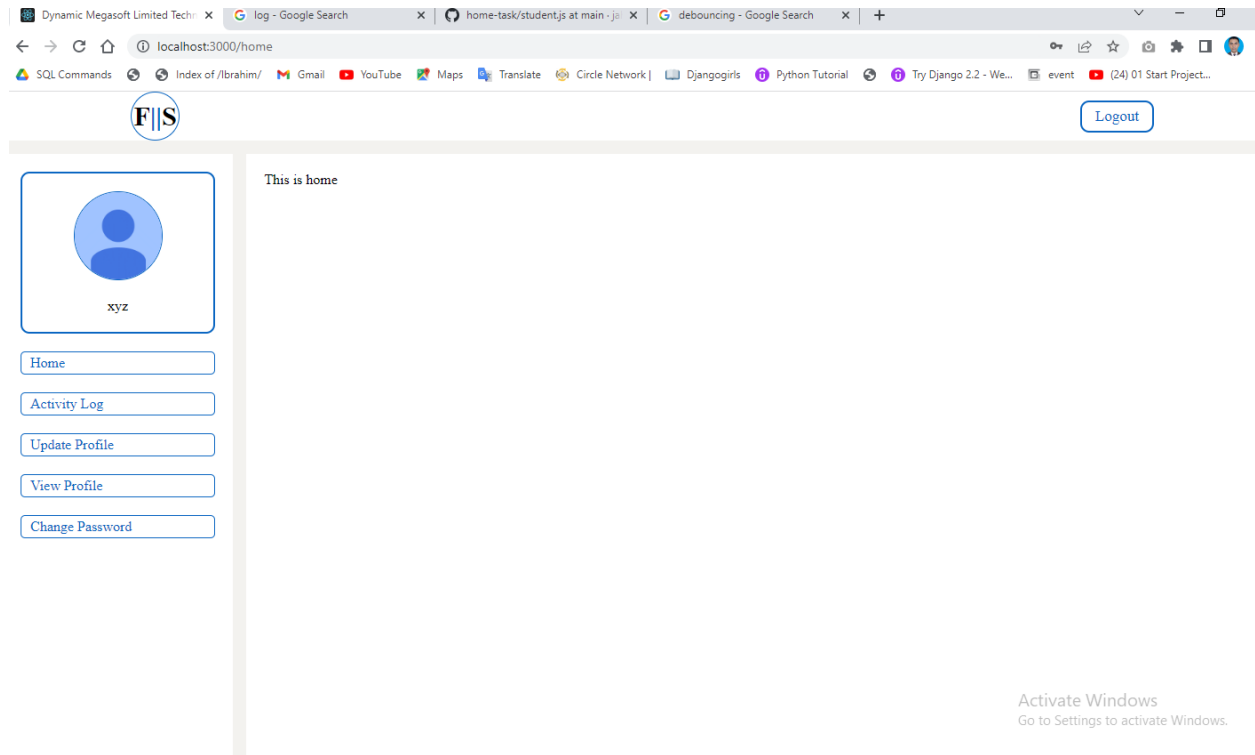
Add new user with name, cardId, phone, date of birth, email, address, gender, created by, created time, updated by, updated time

Card ID	Name	Phone	Email	Date of Birth	Address	Gender	createdBy	createdTime	updatedBy	updatedTime	Action
456546535466455	zyx abc	+0888755443464	xyz2@gmail.com	January 0, 1994	xyz	female	admin user	April 4, 2022		April 4, 2022	
456546535466466	zyx	+0888755443463	xyz2@gmail.com	January 0, 1994	xyz	female	admin user	April 4, 2022		April 4, 2022	
456546535466452	alpha	+088875544339	xyz2@gmail.com	January 0, 1994	xyz	female	admin user	April 4, 2022		April 4, 2022	
456546535466452	pqr	+088875544339	xyz2@gmail.com	January 0, 1994	xyz	female	admin user	April 4, 2022		April 4, 2022	
456546535466452	pqr	+0888755443364	xyz2@gmail.com	January 0, 1994	xyz	female	admin user	April 4, 2022		April 4, 2022	
456546535466452	abcd	+088875544335	xyz2@gmail.com	January 0, 1994	xyz	female	admin user	April 4, 2022		April 4, 2022	
456546535466452	xyz xyz	+088875544335	xyz2@gmail.com	January 0, 1994	xyz	female	admin user	April 4, 2022		April 4, 2022	
45654653546632	xyz zbcd	+088875544334	xyz1@gmail.com	January 6, 1994	xyz	female	admin user	April 4, 2022		April 4, 2022	

## User list

Admin can see list of user with pagination and search option implement search debouncing. Admin can soft delete a particular user by clicking right side red delete button. After deleting a particular user information, it won't be show to admin but it won't delete from database

## User Section:



### User home page

User can do some common functionality like admin

1. Activity logs
2. Update profile
3. View profile
4. Change password

## Project Setup:

### **Backend setup** [ Run bellow commond ]

git clone <https://github.com/tawhidul-islam/technical-test>

cd server

yarn

yarn dev

### **Frontend setup** [ Open another terminal to project folder ]

cd client

yarn

yarn dev