Within Project Documentation

Team

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Project Overview

Within is a single-page-application, built with the MERN Stack. It serves as an internal organization portal, that could be used for universities, companies, etc. Currently, it provides user authentication and dashboard functionality. It includes features like user registration, login, password reset, and a dynamic dashboard with announcements, posts, and calendar integration. This is the beta version so it does not have all functions that we have in mind, but for the final project there will be much more features.
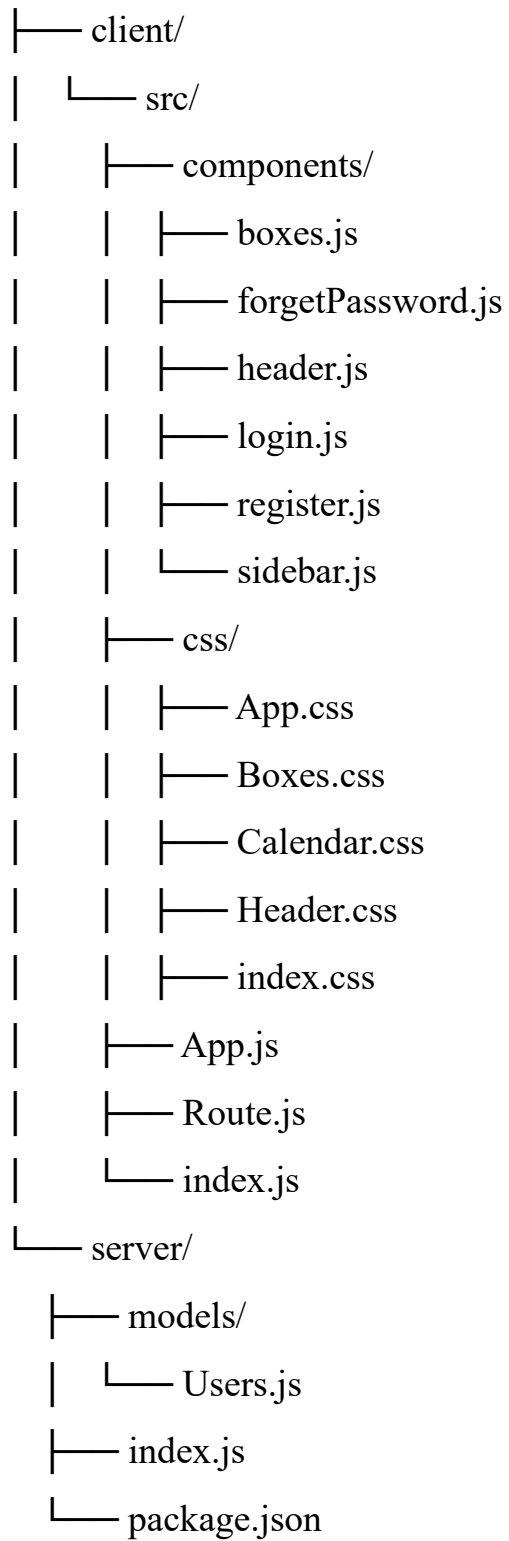
Technology Stack (MERN)

Backend

- Node.js
- Express.js
- MongoDB (with Mongoose)
- bcryptjs (for password hashing)
- CORS
- Body-parser

Frontend

- React.js
- React Router DOM
- React Bootstrap
- Axios
- React Calendar

Project Structure

```
within/
├── client/
│   └── src/
│       ├── components/
│       │   ├── boxes.js
│       │   ├── forgetPassword.js
│       │   ├── header.js
│       │   ├── login.js
│       │   ├── register.js
│       │   └── sidebar.js
│       ├── css/
│       │   ├── App.css
│       │   ├── Boxes.css
│       │   ├── Calendar.css
│       │   ├── Header.css
│       │   ├── index.css
│       ├── App.js
│       ├── Route.js
│       └── index.js
└── server/
    ├── models/
    │   └── Users.js
    ├── index.js
    └── package.json
```

MongoDB Cluster Structure

Users

- _id: int32 *(unique)*
- username: string *(unique)*
- email: string *(unique)*
- password: string *(hashed)*
- type: string *(user | admin)*

Server-Side

API Endpoints

1. POST /login

- Purpose: Authenticate user

- Request Body:

```
{
  "username": "string",
  "password": "string"
}
```

- Response: **{ success: boolean, message: string, type: string }**

2. POST /register

- Purpose: Create new user

- Request Body:

```
{
  "username": "string",
  "email": "string",
  "password": "string",
  "type": "string"
}
```

- Response: **{ success: boolean, message: string }**

3. POST /forgetPassword

- Purpose: Reset user password

- Request Body:

```
{
  "username": "string",
  "password": "string",
  "newPassword": "string"
}
```

- Response: { success: boolean, message: string }

Client-Side

Components

1. Login Component

- Handles user authentication
- Form fields: username, password
- Navigation to register and forgot password pages

2. Register Component

- Handles user registration
- Form fields: username, email, password
- Input validation for email format

3. ForgetPassword Component

- Handles password reset functionality
- Form fields: username, current password, new password

4. Dashboard Components

1. Header: Search functionality and notifications
2. Sidebar: Navigation menu and welcome message
3. Boxes: Grid layout with announcements, posts, and calendar

Routing

```
<BrowserRouter>
  <Routes>
    <Route index element={<Login />} />
    <Route path="login" element={<Login />} />
    <Route path="register" element={<Register />} />
    <Route path="reset" element={<ForgetPassword />} />
    <Route path="home" element={<App />} />
  </Routes>
</BrowserRouter>
```

Setup Instructions

Server Setup

1. Navigate to server directory:

```
cd server
```

2. Install dependencies:

```
npm install
```

3. Start server:

```
node index.js
```

Client Setup

1. Navigate to client directory:

```
cd client/client
```

2. Install dependencies:

```
npm install
```

3. Start development server:

```
npm start
```

Environment Requirements
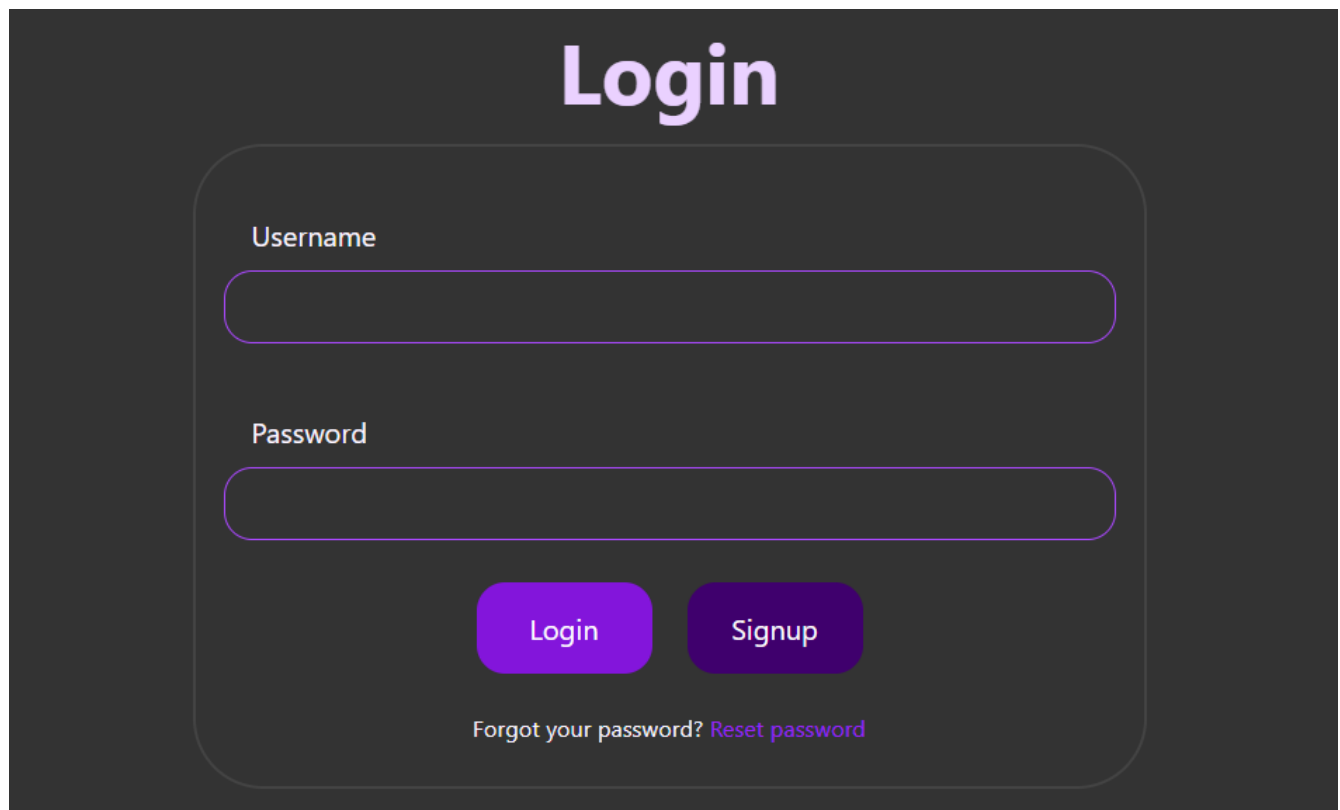
- Node.js version: 14.x or higher
- MongoDB connection string required
- Port 4000 for server
- Port 3000 for client (default React port)

Security Features

- Password hashing using bcryptjs
- Case-insensitive username/email handling
- Input validation for registration
- Error handling and user feedback

<u>Screenshots</u>

Login

Regsiter

Reset Password

Errors Preview

Login

Username

yassin

Password

•••

Incorrect password

Login   Signup

Forgot your password? Reset password

Register

Username

yassin

Email

yassin@gmail.com

Password

•••

Type

Student

Username already exists

Signup

Already have an account? Login

Main Dashboard

Within

🏠 Home
👤 Profile
📅 Calendar
📋 Forms

Welcome to the Portal!

Explore the resources, stay connected, and make the most of our platform to achieve your goals. We're here to support you—dive in and make the most of it!

Logout

🔍 Search...

🔔5 ⚙️ 👤

Announcement 1

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Announcement 2

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