

Student Management System – User Guide

✓ Frontend Setup (React.js + Redux + TailwindCSS)

GitHub Repo:

 https://github.com/SheikhGH/SMS_React_Frontend.git

 Prerequisites

- Node.js v16+
- npm or yarn

📖 Frontend Setup Steps

1. Clone the Repository

```
git clone https://github.com/SheikhGH/SMS_React_Frontend.git
cd SMS_React_Frontend
```

2. Install Dependencies

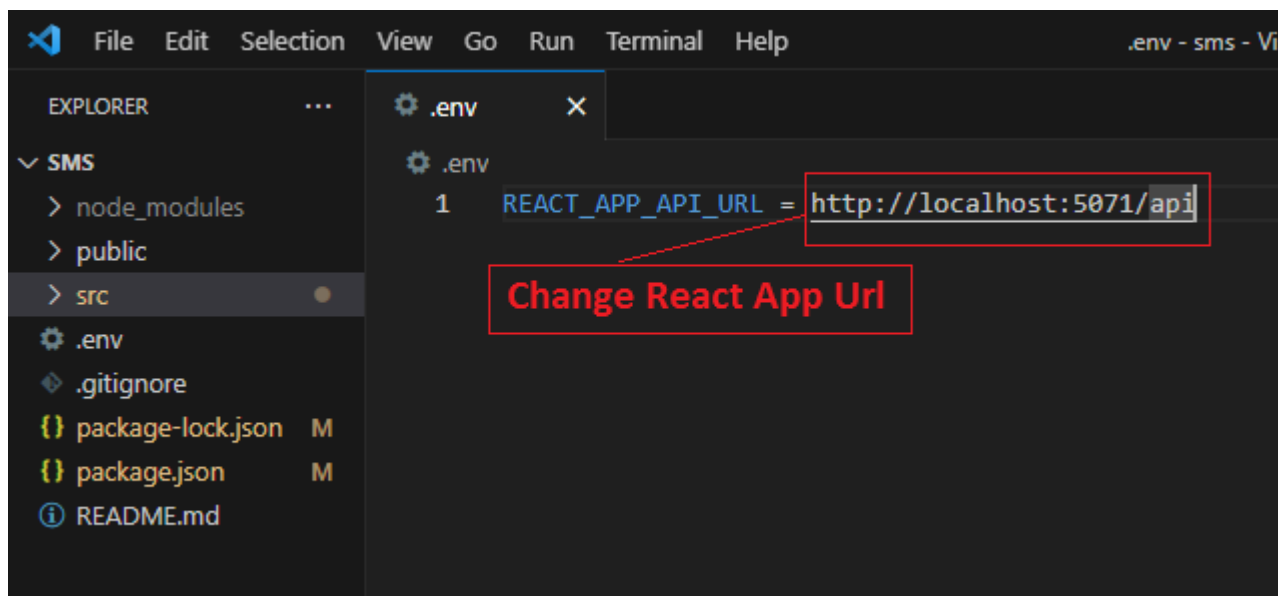
```
npm install
```

3. Check API URL

Open `.env` file or wherever the base API URL is set, and verify:

```
REACT_APP_API_URL=http://localhost:5071/api
```

Change React Application Site Url in the `.env` file



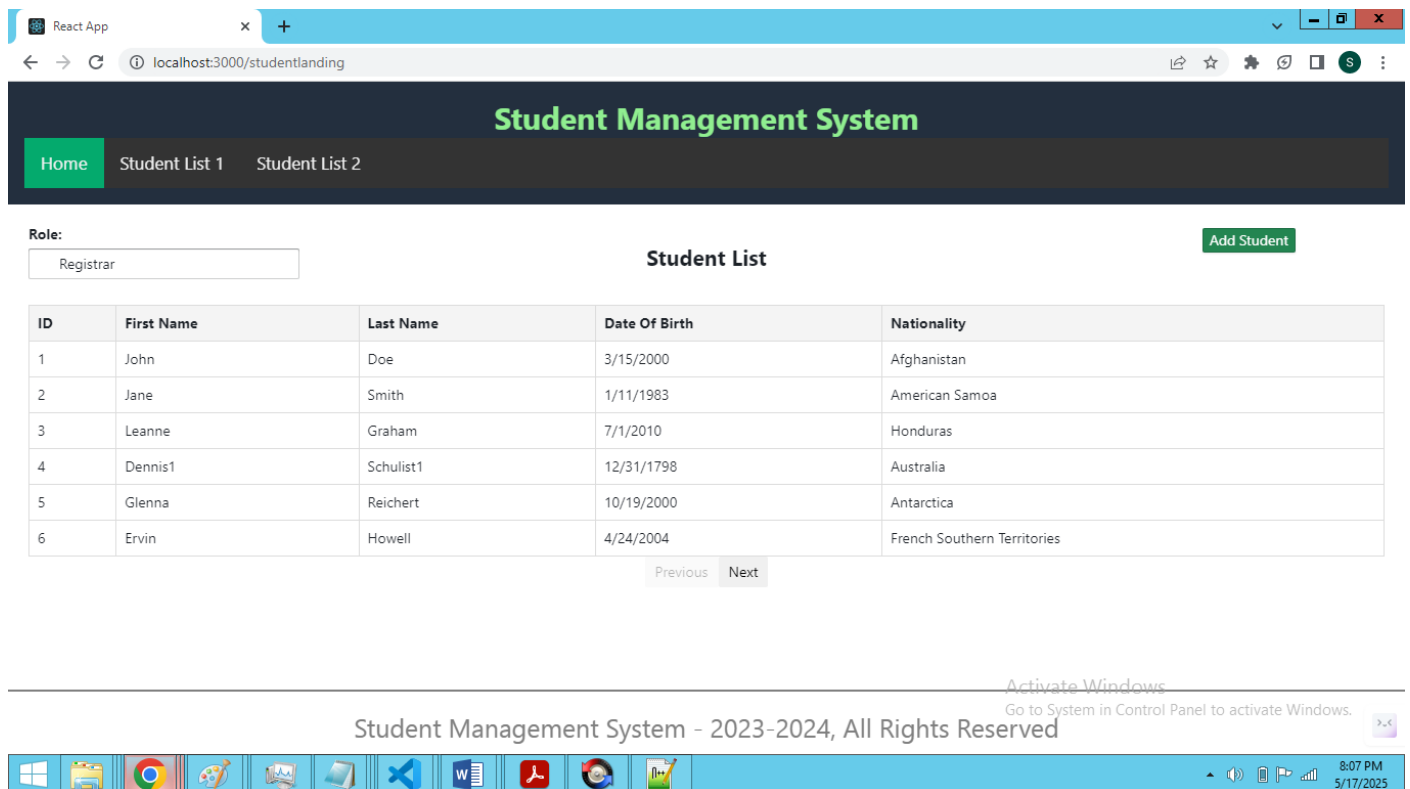
4. Run the React App

```
npm start
```

Run 'npm start' command in the Terminal. It will automatically create `node_module` files in the react application

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS G:\Desktop\React\Workspace\Stroika\sms> npm start
```

🌐 Visit frontend here:
<http://localhost:3000>



❑ How It Works (Frontend Behavior)

👤 Users & Roles

- **Admin:** Can **only add** and **view** students
- **Registrar:** Can **add, view, approve, edit, and delete**

🏠 Landing Page Features

- Role dropdown: Select Admin or Registrar
- 'Add Student' button: Opens form to add student
- Student list displayed
- Clicking a student row opens a **modal popup**
 - Displays Student & Family Member data
 - Role-based access control inside modal

Swagger UI

React App

https://jsonplaceholder.typicode.com/

localhost:3000

Student Management System

Student Details

Add Student

First NameChelsey

Last NameDietrich

NationalityAustralia

Date of Birth10/11/2011

Add Student

Add Family Member

First NameKurtis

Last NameWeissnat

NationalityAustralia

RelationshipParent

Date of Birth06/06/2002

Add Family Member

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React App

localhost:3000

Student Management System

Home

Student List 1

Student List 2

Role:Admin

Student List

Add Student

ID	First Name	Last Name	Date Of Birth	Nationality
1	John	Doe	3/15/2000	Afghanistan
2	Jane	Smith	1/11/1983	American Samoa
3	Leanne	Graham	7/1/2010	Honduras
4	Dennis	Schulist	12/31/1798	Cape Verde
5	Glenna	Reichert	10/19/2000	Antarctica
6	Ervin	Howell	4/24/2004	French Southern Territories
7	Chelsey	Dietrich	10/11/2011	Australia

PreviousNext

New Student detail is added in the student list

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React App x +

localhost:3000

Student Details

Edit Student	Edit Family Member
First Name Jane	First Name Jack
Last Name Smith	Last Name Connor
Nationality American Samoa	Nationality American Samoa
Date of Birth 01/11/1983	Relationship Sibling
	Date of Birth 10/21/1983
Update Student	Update Family Member

If role is Admin: Only view the Student and Family Member. He cannot approve, update, delete it

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React App x +

localhost:3000

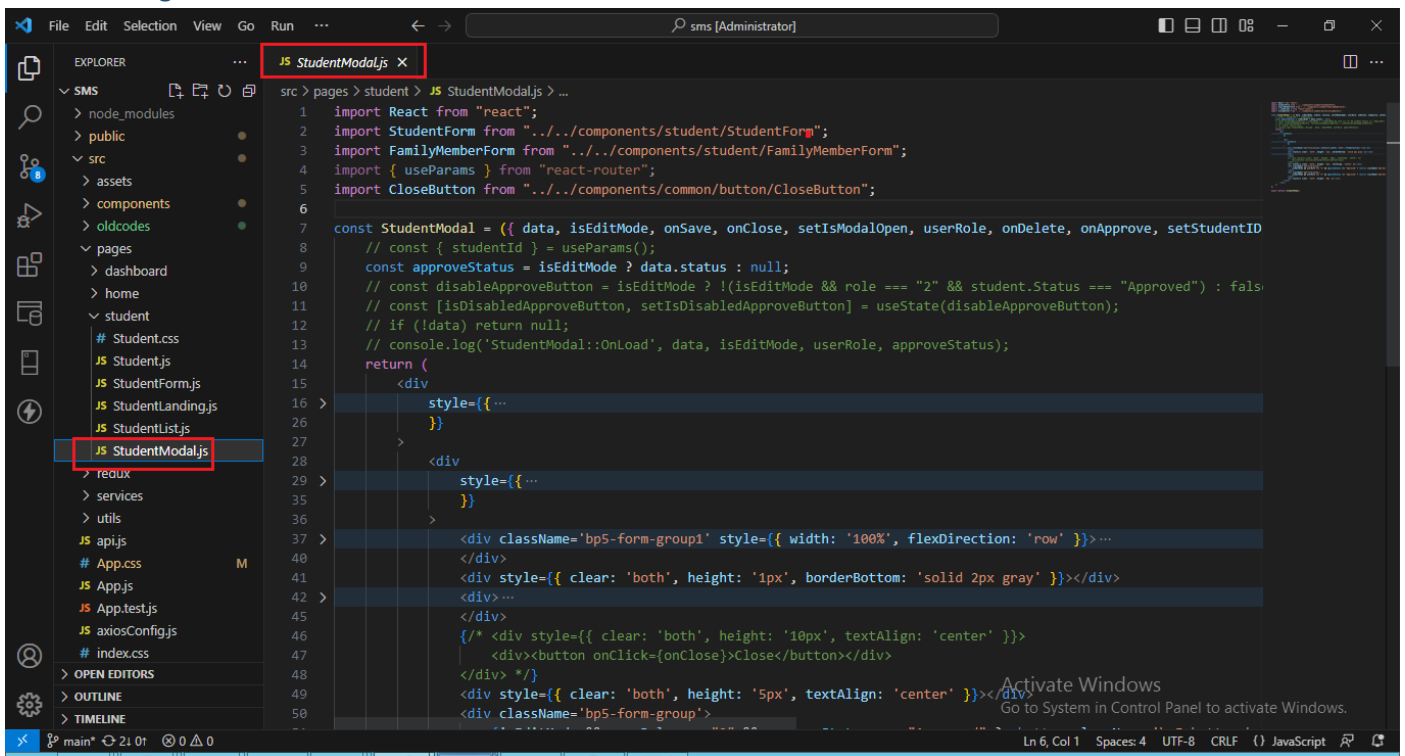
Student Details

Edit Student	Edit Family Member
First Name Dennis	First Name George
Last Name Schulist	Last Name Rhys
Nationality Cape Verde	Nationality Cape Verde
Date of Birth 12/31/1798	Relationship Spouse
	Date of Birth 12/31/1898
Update Student	Update Family Member
Approve	

If role is Registrar: He can view, approve, update, and delete the Student and Family Member

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Detail Page Workflow



Stage 1:

- Registrar edits Student & FamilyMember info
- Can Approve student

React App

localhost:3000/studentlanding

Student Details

Edit Student

First Name

Chelsey1

Last Name

Dietrich1

Nationality

Australia

Date of Birth

10/11/2011

Update Student

Edit Family Member

First Name

Kurtis2

Last Name

Weissnat2

Nationality

Australia

Relationship

Parent

Date of Birth

06/06/2002

Update Family Member

Update student and family member

Approve

Activate Windows

React App

localhost:3000/studentlanding

Student Management System

Home

Student List 1

Student List 2

Role:

Registrar

Add Student

Student List

ID	First Name	Last Name	Date Of Birth	Nationality
1	John	Doe	3/15/2000	Afghanistan
2	Jane	Smith	1/11/1983	American Samoa
3	Leanne	Graham	7/1/2010	Honduras
4	Dennis1	Schulist1	12/31/1798	Australia
5	Glenna	Reichert	10/19/2000	Antarctica
6	Ervin	Howell	4/24/2004	French Southern Territories
7	Chelsey1	Dietrich1	10/11/2011	Australia

Previous

Next

Now student and family member updated

Activate Windows

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Student Details

Edit Student

First Name

Sheiek Abdul

Last Name

Khadar

Nationality

Bangladesh

Date of Birth

08/13/2024

Update Student

Edit Family Member

First Name

Sheiek Abdul

Last Name

Smith1

Nationality

Macao

Relationship

Spouse

Date of Birth

01/02/2025

Update Family Member

Approve

Student Details

Edit Student

First Name

Chelsey1

Last Name

Dietrich1

Nationality

Australia

Date of Birth

10/11/2011

Update Student

Edit Family Member

First Name

Kurtis2

Last Name

Weissnat2

Nationality

Australia

Relationship

Parent

Date of Birth

06/06/2002

Update Family Member

Now approve the student

Approve

Stage 2:

- After approval, only **Update** and **Delete** buttons remain

Student Details

Edit Student

First Name
Chelsey1

Last Name
Dietrich1

Nationality
Australia

Date of Birth
10/11/2011

Update Student

Edit Family Member

First Name
Kurtis2

Last Name
Weissnat2

Nationality
Australia

Relationship
Parent

Date of Birth
06/06/2002

Update Family Member

Delete

once approved - Update and Delete button will display
so user Registrar Edit and Delete student

Student Details

Edit Student

First Name
Sheiek Abdul

Last Name
Khadar

Nationality
Bangladesh

Date of Birth
08/13/2024

Update Student

Edit Family Member

First Name
Sheiek Abdul

Last Name
Smith1

Nationality
Macao

Relationship
Spouse

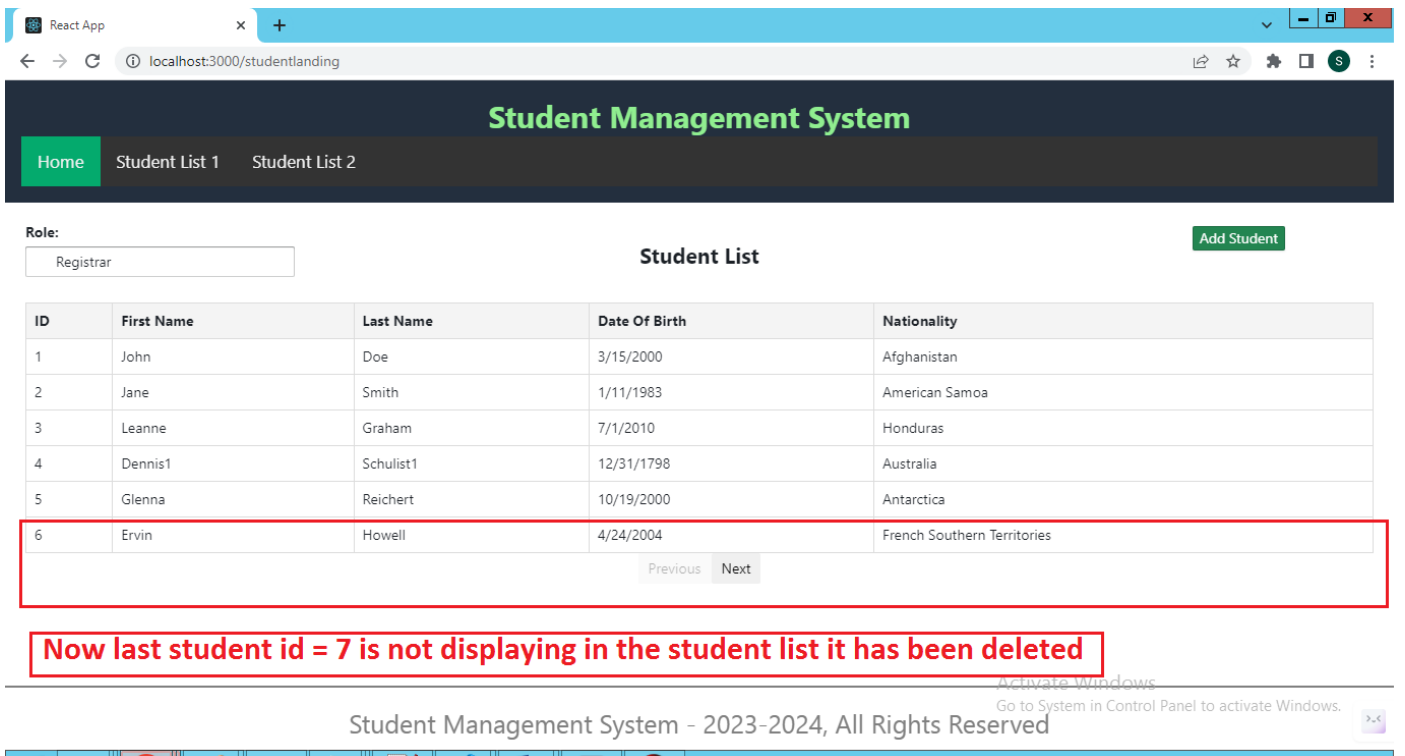
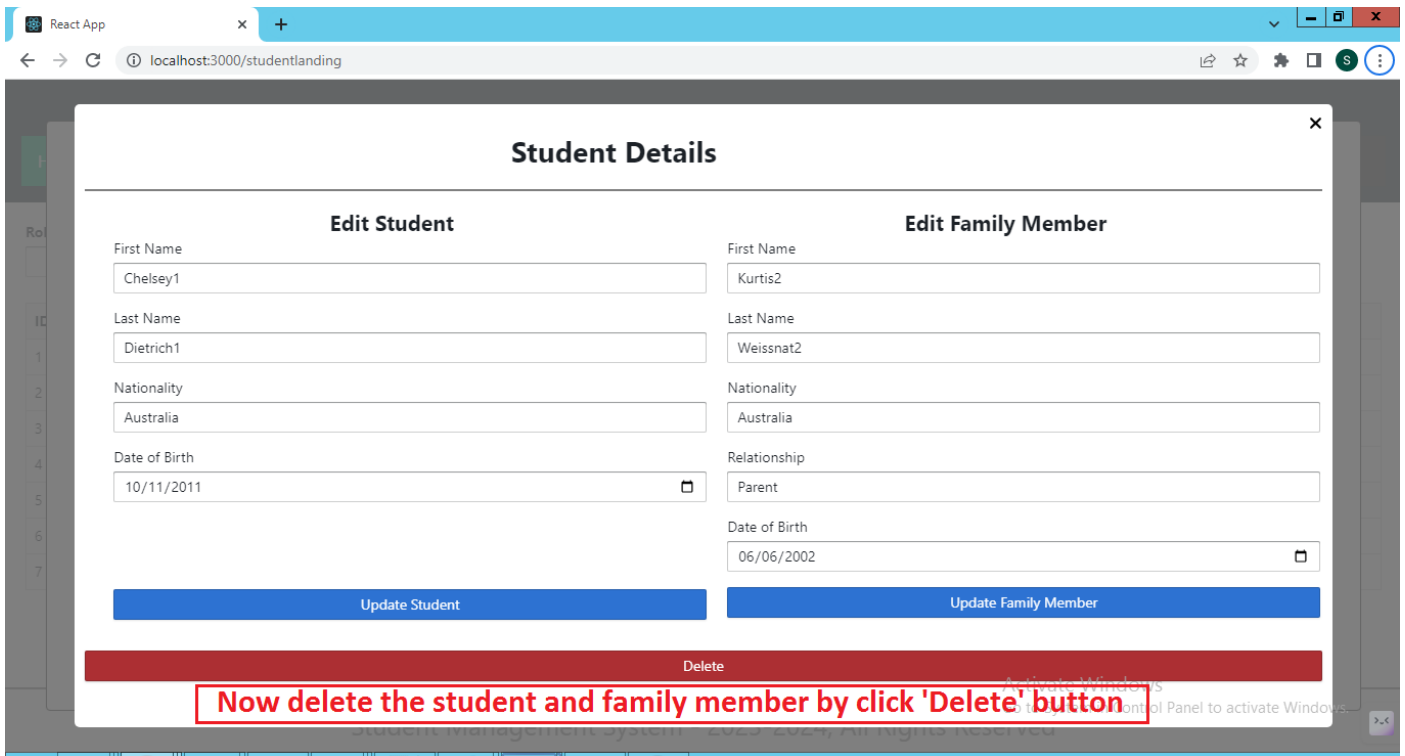
Date of Birth
01/02/2025

Update Family Member

Delete

Stage 3:

- After any action (Approve/Edit/Delete), redirects to landing page
- Updated student list is shown



✓ Final Check

Component	Status
Backend running at <code>http://localhost:5071</code>	✓
Database created	✓
React frontend running at <code>http://localhost:3000</code>	✓
Role-based UI with Student & Family Member modals	✓

