**User Management CRUD Application**

A full-stack web application built using React.js, .NET Core (Web API), and MySQL. It allows users to input, view, update, and delete personal information such as name, address, state, district, date of birth, and preferred language.

* **Features**
* Add new users with details
* View users in a tabular format
* Edit existing user details
* Delete users
* Real-time updates using Axios API calls
* **Tech Stack**

|  |  |
| --- | --- |
| Layer | Technology |
| Frontend | React.js |
| Backend | ASP.NET Core (C#) |
| Database | MySQL |
| ORM | Entity Framework |
| Styling | Inline CSS |

* **Project Structure**

----------- Getting Started ------------------

**1. Setup MySQL Database**

Open MySQL Workbench or your CLI and run:

--- sql

CREATE DATABASE userdetailsdb;

USE userdetailsdb ;

CREATE TABLE Users (

Id INT AUTO\_INCREMENT PRIMARY KEY,

Name VARCHAR(100),

Address VARCHAR(255),

State VARCHAR(100),

District VARCHAR(100),

DateOfBirth DATE,

Language VARCHAR(50)

);

**2. Backend Setup (.NET Core)**

cd UserApi

dotnet restore

dotnet run

* **Make sure appsettings.json has correct MySQL config:**

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"ConnectionStrings": {

"DefaultConnection": "server=localhost;database=userdetailsdb;user=root;password=root;"

}

**API Endpoints:**

 GET /api/Users

 POST /api/Users

 PUT /api/Users/{id}

 DELETE /api/Users/{id}

**3. Frontend Setup (React)**

cd user-crud

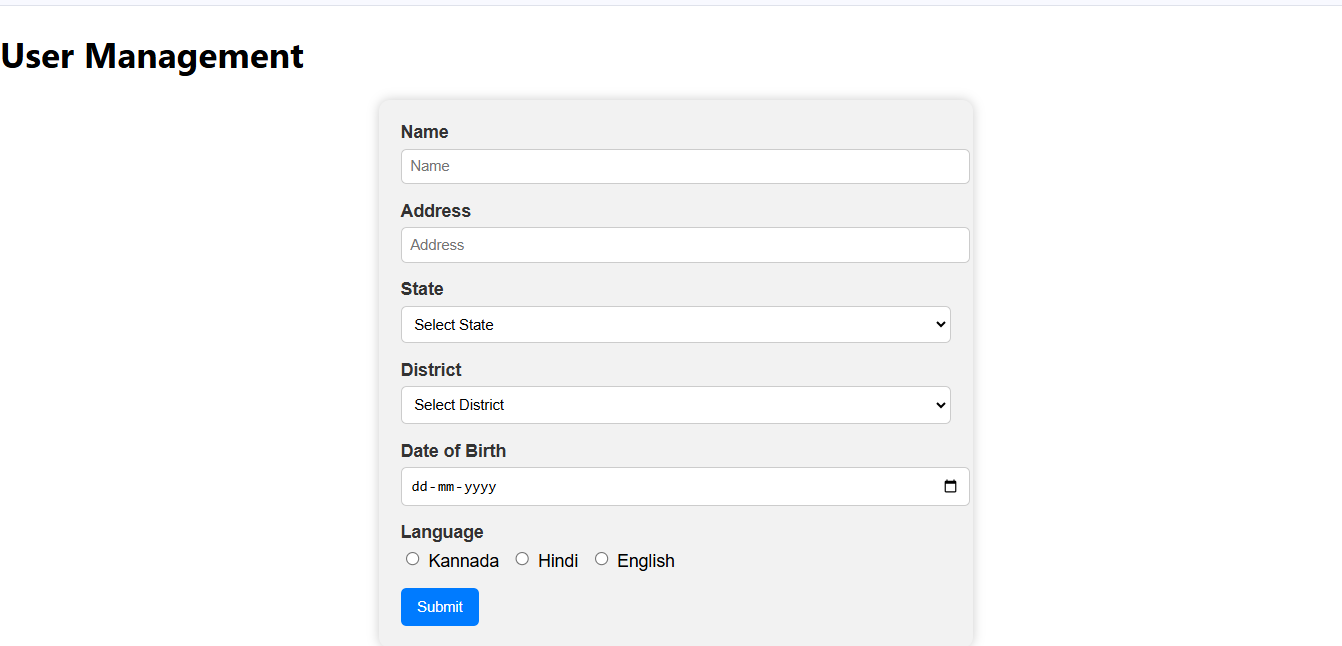
npm install

npm start

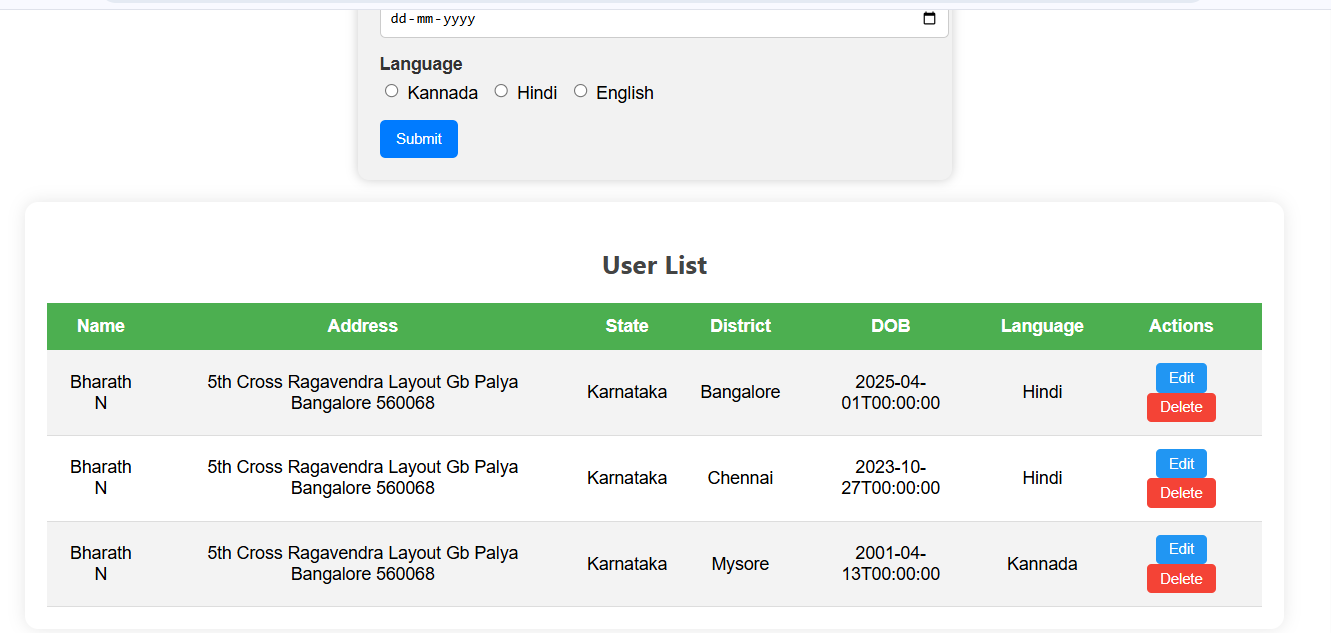
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Frontend runs on http://localhost:3000  
Make sure backend (http://localhost:5239) is running before you test the form.

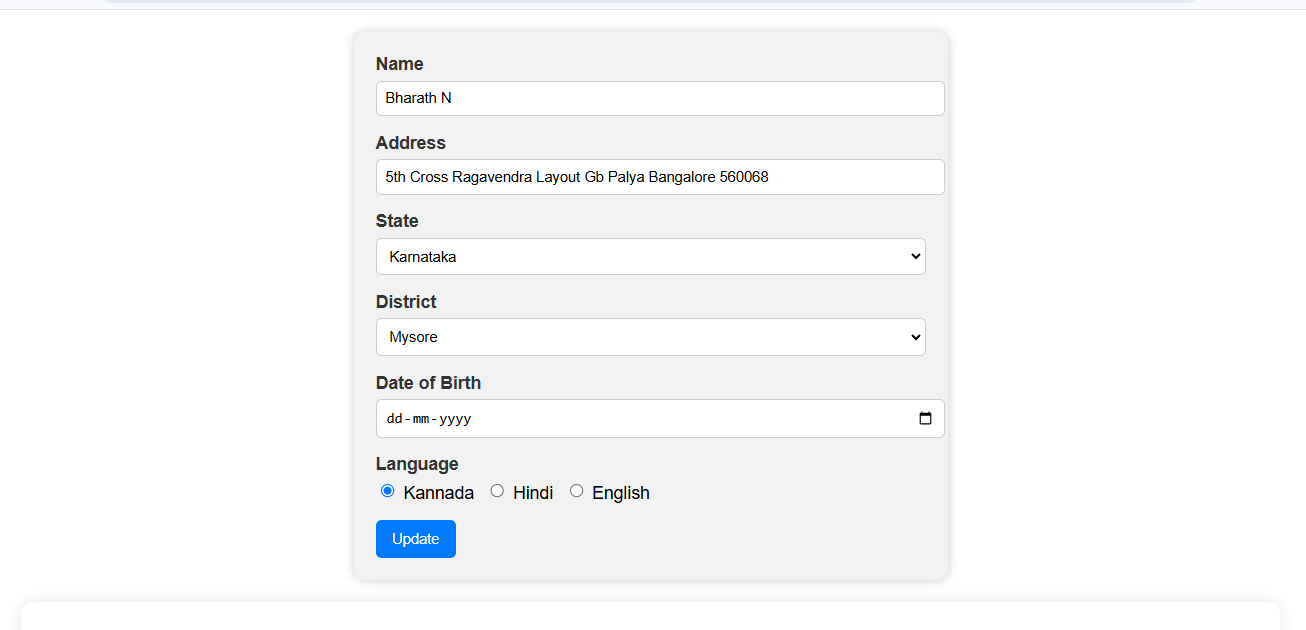
* **Screenshots**



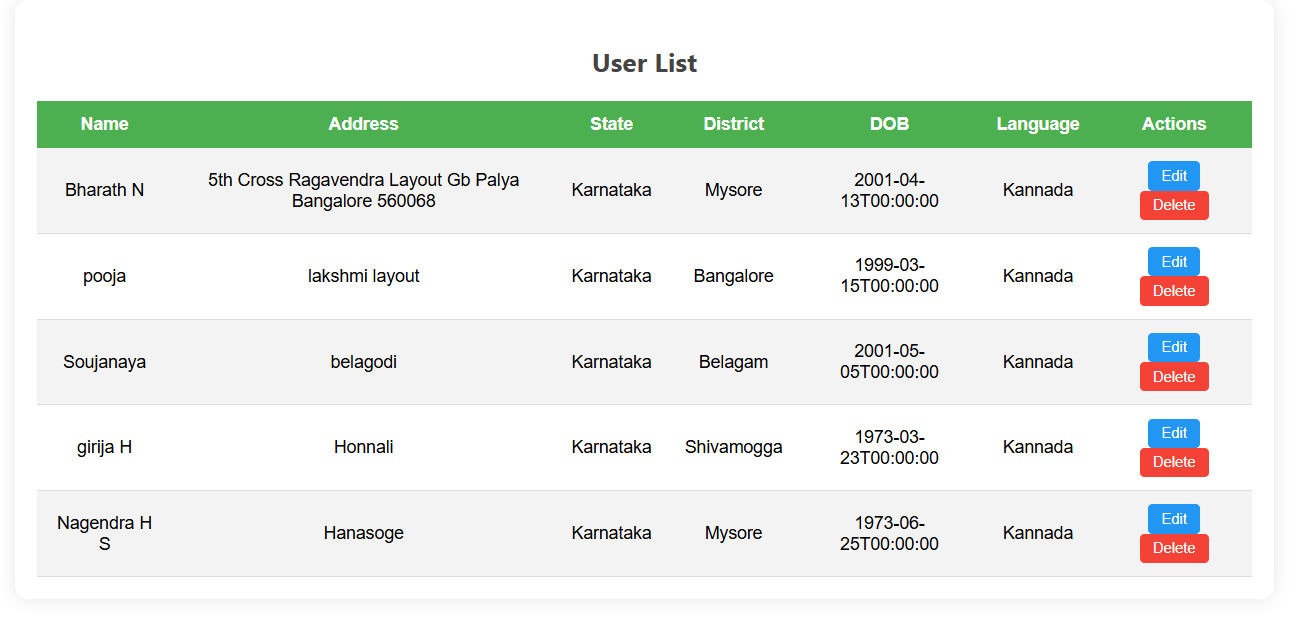
1. **Form image**



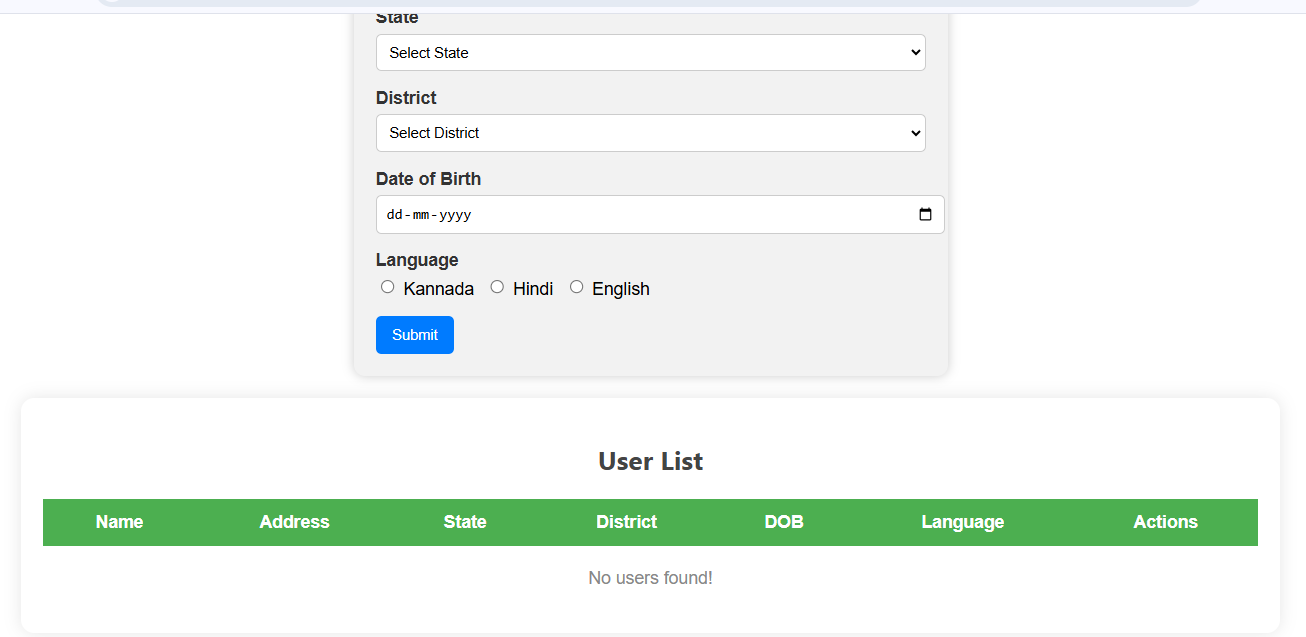
1. **User List image**

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1. **Update the User list**



1. **Before deleting the records**



1. **After deleting the records**

* **Folder Structure**

frontend/ → React frontend

├── src/

│ ├── components

└──UserForm.js

└──UserTable.js

│ ├── app.js

│ ├── index.js

├── api.js

backend/ → .NET Core backend

├── Controllers/

│ └── UsersController.cs

├── Models/

│ └── User.cs

├── Data/

│ └── UserDbContext.cs

├── appsettings.json

├── Program.cs

Database/ → backend

├──schema.sql

* **Author**

**Name:** Bharath N  
**Email:** bharathkalki8255@gmail.com  
**GitHub:** [your-github-link]  
**LinkedIn:** [your-linkedin-link]

=========== Thank you =============