

# Portfolio of Projects : By Iqra fatima

## Introduction

This document contains the detailed description and setup instructions for three web development projects I have built using React and related technologies. The projects demonstrate my understanding of frontend development, component design, routing, state management, and UI/UX principles.

- **Projects Included:**

1. Universal Translator – A multilingual text translation web app with favorite languages and translation history.
2. React Router Demo – A simple React app demonstrating navigation using React Router.
3. Random String Generator – A tool for generating secure random strings with configurable options.

- **Technologies & Skills Demonstrated**

- React (Functional Components, Hooks, Router)
- State Management (useState, useEffect, useRef, useCallback)
- CSS and Tailwind CSS for styling and responsive design
- Local Storage for persisting user data
- Vite and React project setup
- Clean UI/UX design and component reusability

- **Objective**

This portfolio is created to showcase my practical skills in web development and to provide guidance for anyone who wishes to explore or run these projects locally.

- Projects structure

```
projects/
|
└─ translation app/
    |
    └─ src/
    |
    └─ public/
    |
    └─ package.json
    └─ README.md
|
└─ react-router-demo/
    |
    └─ src/
    |
    └─ public/
    |
    └─ package.json
    └─ README.md
|
└─ random-string-app/
    |
    └─ src/
    |
    └─ public/
    |
    └─ package.json
    └─ README.md
|
└─ docs/
```

- **Translator Project README.md:**

```
# Universal Translator - Language Bridge
```

## ## Description

A web application that instantly translates text between multiple languages. Supports translation history, favorite languages, copy-to-clipboard, and live updates.

## ## Technologies Used

- React
- Tailwind CSS
- JavaScript (ES6)
- LocalStorage for storing favorites

## ## Features

- Translate between 15+ languages
- Copy translated text to clipboard
- Save favorite target languages for quick access
- Keyboard shortcut: Ctrl+Enter to translate
- Auto-save translation history (last 10 entries)
- Responsive UI with animated background

## ## Setup Instructions

1. Clone the repository:

```
``` bash
git clone <repo-url>
```

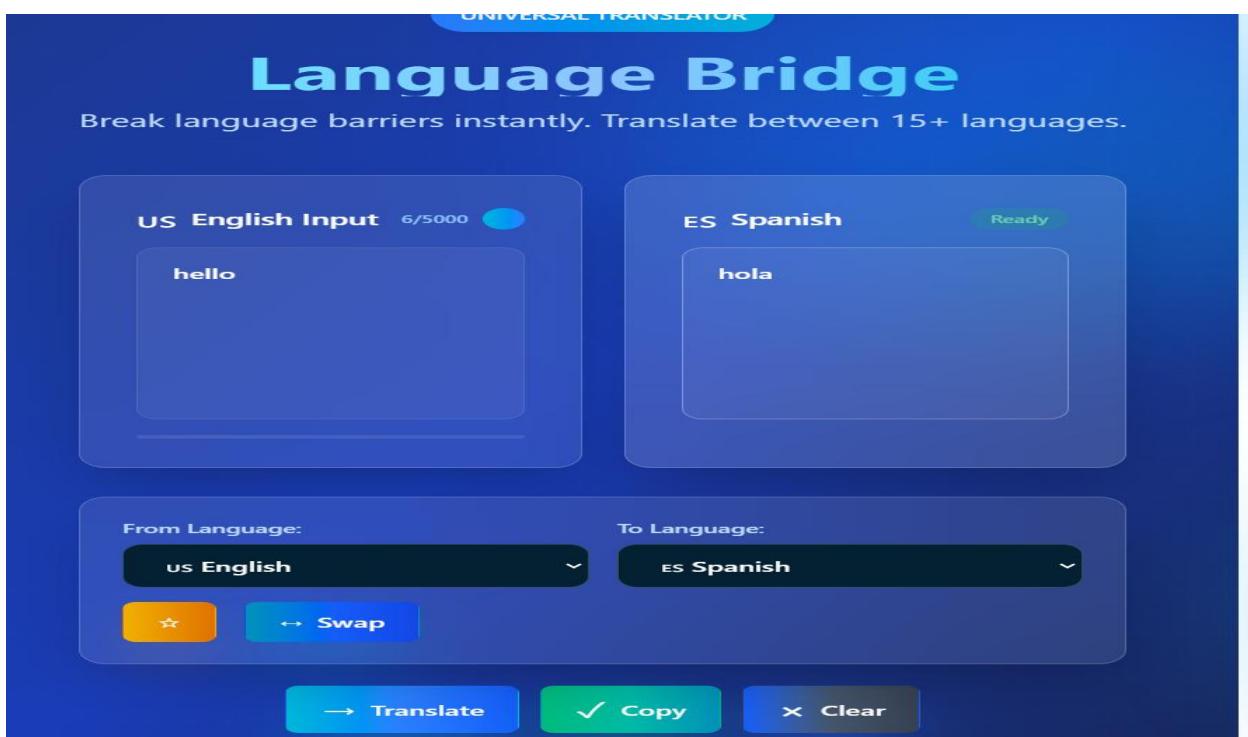
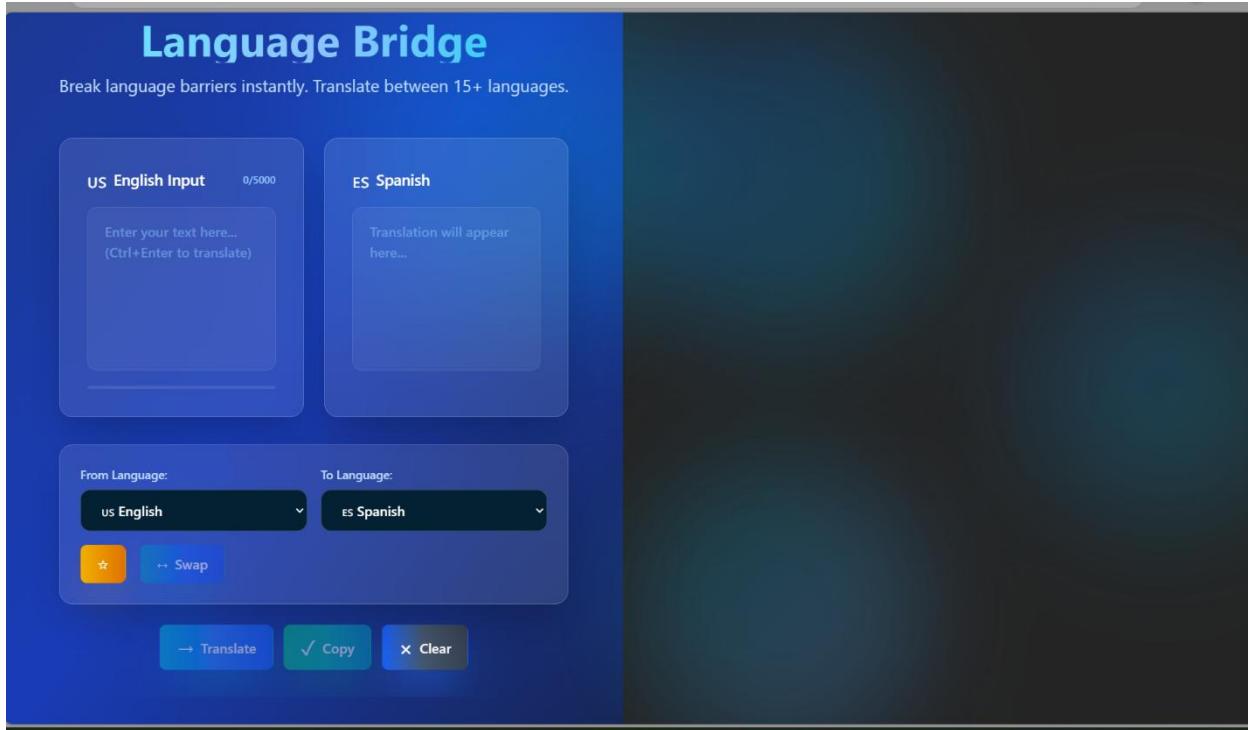
- **Install dependencies:**

Npm install

- **Run locally:**

npm run dev

- Screenshot:



- React Router Demo README.md

## React Router Demo

- Description

A simple React application demonstrating the usage of React Router for page navigation. Includes Home, About, and Contact pages, along with a 404 page.

- Technologies Used

- React
- React Router DOM
- CSS
- Featured

- a. Navigation bar with active link highlighting
- b. Home, About, and Contact pages
- c. 404 page for unknown routes
- d. Clean and minimal design

- Setup Instructions

### 1. Clone the repository:

```
```bash
```

```
git clone <repo-url>
```

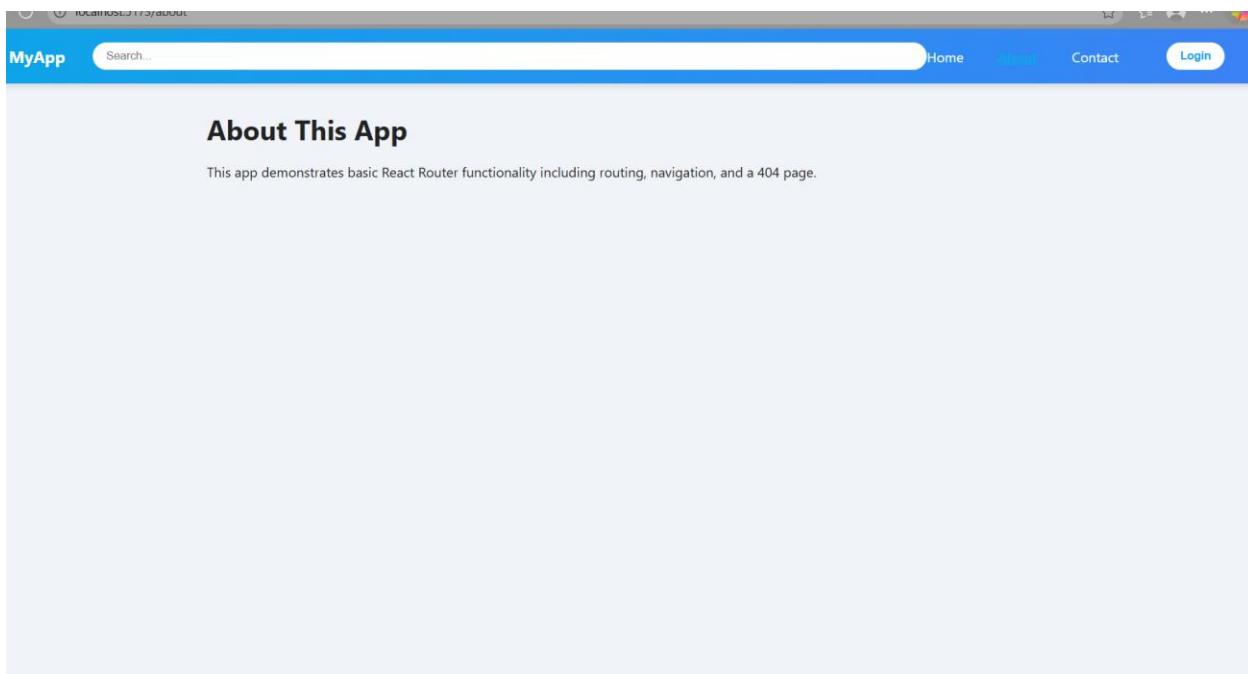
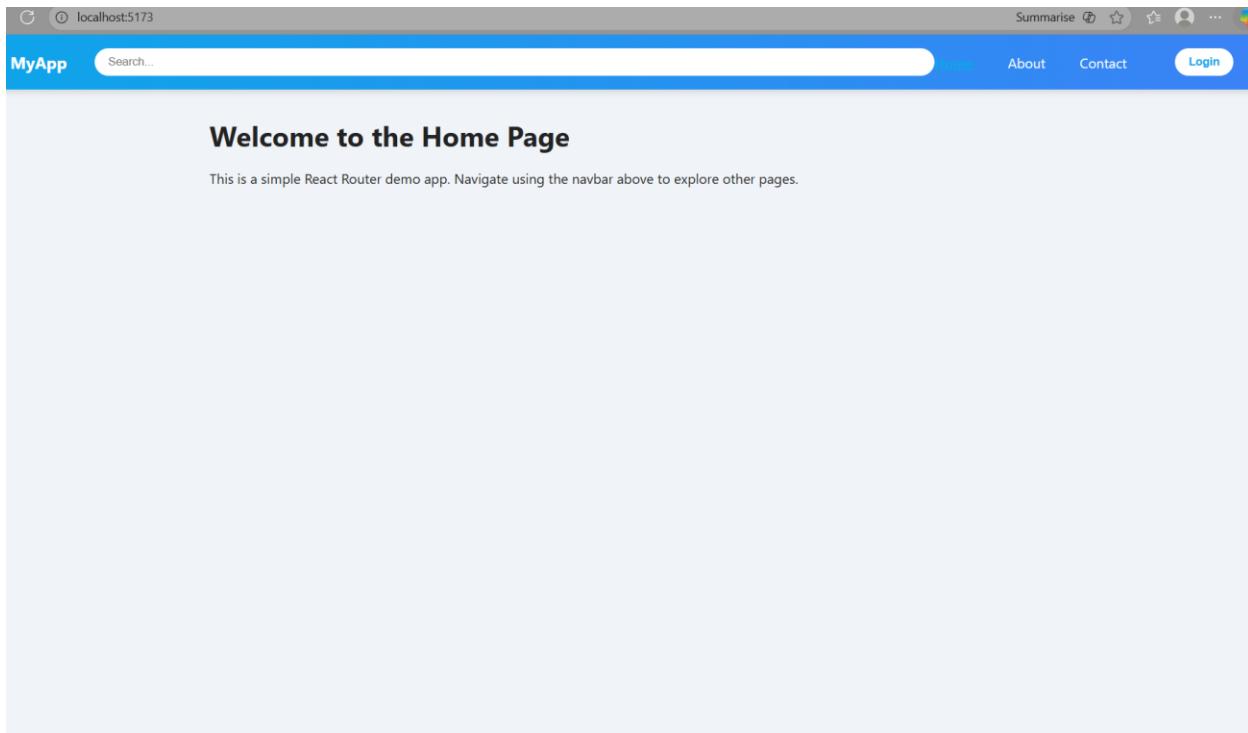
- Install dependencies:

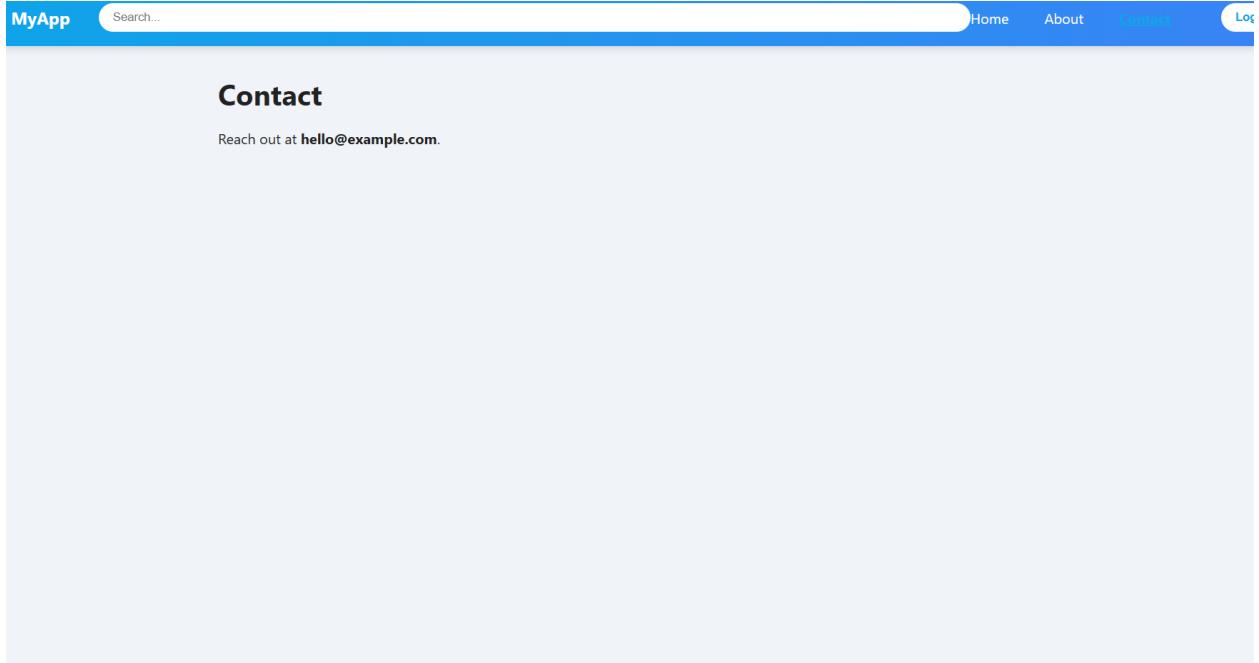
```
npm install
```

- Run locally:

```
npm start
```

- screenshots





## String Generator Project README.md

string

### Description

A web app that generates secure random strings with customizable options. Users can select string length, character types, and copy the result to clipboard.

### Technologies Used

- React
- Vite
- CSS/SCSS

### Features

- Generate random strings with options for:
- Lowercase letters

- Uppercase letters
- Numbers
- Symbols
- Auto-generate strings when options change
- Copy to clipboard functionality
- Configurable string length
- Real-time feedback (Copied! message)
- Clean, responsive UI

## Setup Instructions

1. Clone the repository:

```
```bash
```

```
git clone <repo-url>
```

Install dependencies:

```
npm install
```

Run locally:

```
npm run dev
```

- Screenshots:

