

# Job Portal Web Application

## (About my Angular project)

**A Job Portal Web Application built using Angular provides a seamless platform for job seekers and employers to connect. It features secure authentication, dynamic job listings with filters, job posting and management for employers, and an enquiry section for user queries. Angular's component-based architecture, two-way data binding, and efficient routing ensure a responsive, scalable, and user-friendly experience, making it ideal for managing the recruitment process effectively.**

# Features used in this project:

## 1. User Authentication & Authorization:

- Secure login/signup for job seekers and recruiters.
- Role-based access to control user functionalities.

## 2. Home Page:

- Provides a quick overview of the latest job postings, featured companies, and trending job categories.

## 3. Job Listings:

- Displays a list of available jobs with filters for location, category, salary, and experience.
- Pagination and sorting for easy navigation.

# Features:

## **4. Job Postings (For Employers):**

1. Employers can post, edit, and manage job listings.
2. Ability to add company details and define job requirements.

## **5. Enquiry Section:**

1. Allows users to submit queries or contact for assistance.
2. Admin can manage and respond to these inquiries efficiently.

## **6. Login and Authentication:**

1. Users can log in to access job listings or manage postings.
2. JWT tokens for session management and API protection.

# Component Architecture:

- ▶ The **Job Portal Web Application** utilizes **Angular** with **Bootstrap** for a modern, responsive interface. By using **standalone components**, it eliminates the need for NgModules, improving performance and simplifying maintenance.
- ▶ Bootstrap's grid system ensures a mobile-first design, while its pre-styled components like modals, buttons, and forms enhance the user experience.
- ▶ The application also leverages Angular's **lazy loading** to optimize page load times, and **form validation** is implemented to ensure data integrity during login, registration, and job postings.
- ▶ Additionally, Angular's **routing and guards** manage secure navigation between pages, ensuring a seamless and secure user journey.

# Installing Required Dependencies

- **angular.json** does not manage dependencies directly.
- Dependencies are installed and managed through the **package.json** file.
- After installing, Angular uses **angular.json** to define:
  1. **Styles** (CSS, SCSS)
  2. **Scripts** (JS, external libraries)
  3. Asset paths, build options, etc.

To add any dependency to an Angular project:  
(`npm install package-name`)

- This adds the package to dependencies in **package.json** file.
- With `npm install` command Node Modules will be installed in the project

# Using Standalone Component

- Standalone components allow you to create Angular components **without the need for NgModules**.
- They simplify the structure by removing the need for **app.module.ts**.
- Introduced in Angular 14+ and now fully supported in Angular 17+.
- To generate a Standalone Component:  
**ng g c my-component --standalone**

## **Benefits of Using Standalone Components:**

- No need to create app.module.ts
- Faster startup and smaller bundle size
- Improved maintainability and modularity
- Easier to manage dependencies

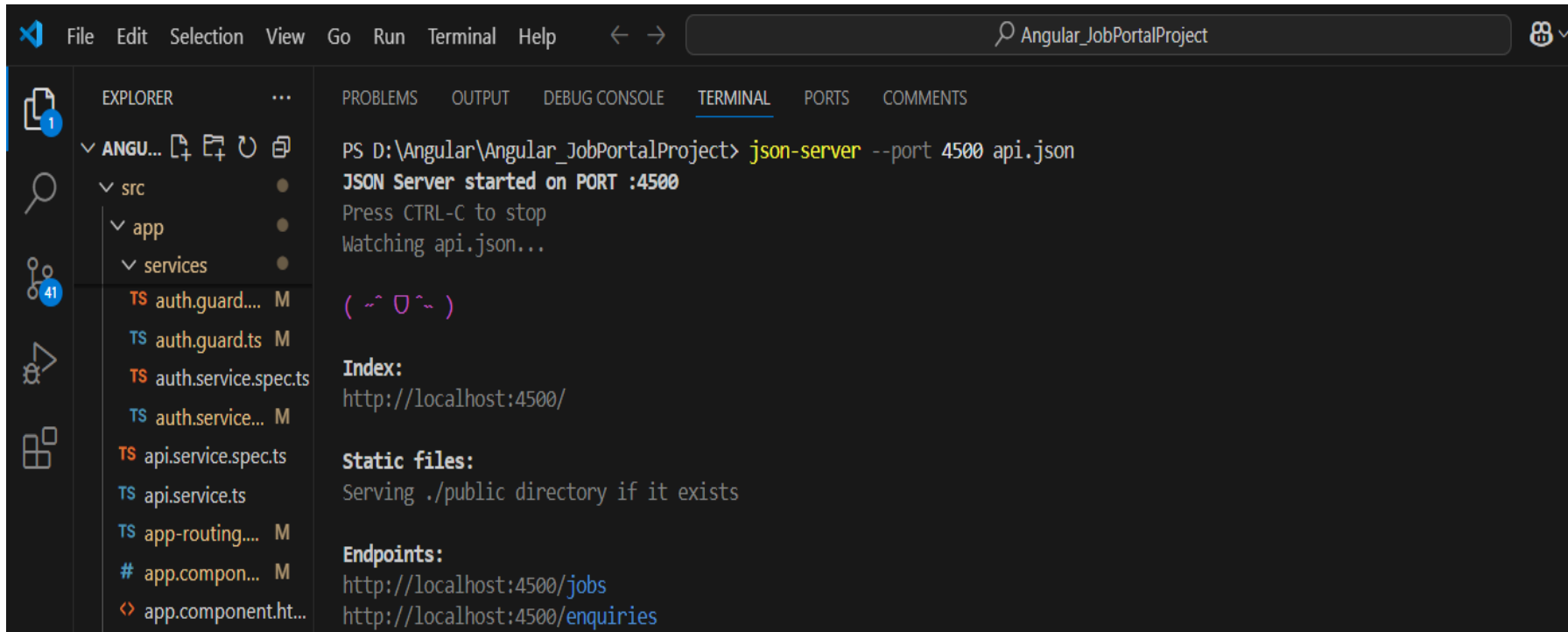
# Bootstrapping:

- Bootstrapping is the process of **starting the Angular application** by loading the root component.
- Traditionally, this is done through AppModule with bootstrap: [AppComponent] inside @NgModule.
- With **standalone components**, there's no AppModule required. Instead, you bootstrap the app directly using bootstrapApplication().

## Benefits of using Standalone Bootstrapping:

- Faster load time and smaller bundle size
- No need to manage AppModule
- Directly bootstrap multiple components if needed
- Easier to manage and maintain

# Running the Angular Project by starting an json server:



The screenshot shows the Visual Studio Code interface for the 'Angular\_JobPortalProject'. The Explorer sidebar on the left shows the project structure with folders 'src', 'app', and 'services'. The 'app' folder is expanded, showing files like 'auth.guard.ts', 'auth.service.spec.ts', 'auth.service.ts', 'api.service.spec.ts', 'api.service.ts', 'app-routing.module.ts', 'app.component.spec.ts', and 'app.component.ts'. The Terminal panel on the right shows the command 'json-server --port 4500 api.json' executed in the PowerShell prompt. The output indicates the JSON Server is started on port 4500 and is watching 'api.json'. Below the command output, there is a decorative ASCII art cat face, followed by the 'Index:' URL 'http://localhost:4500/', the 'Static files:' section indicating the './public' directory is served, and the 'Endpoints:' section listing 'http://localhost:4500/jobs' and 'http://localhost:4500/enquiries'.

```
PS D:\Angular\Angular_JobPortalProject> json-server --port 4500 api.json
JSON Server started on PORT :4500
Press CTRL-C to stop
Watching api.json...

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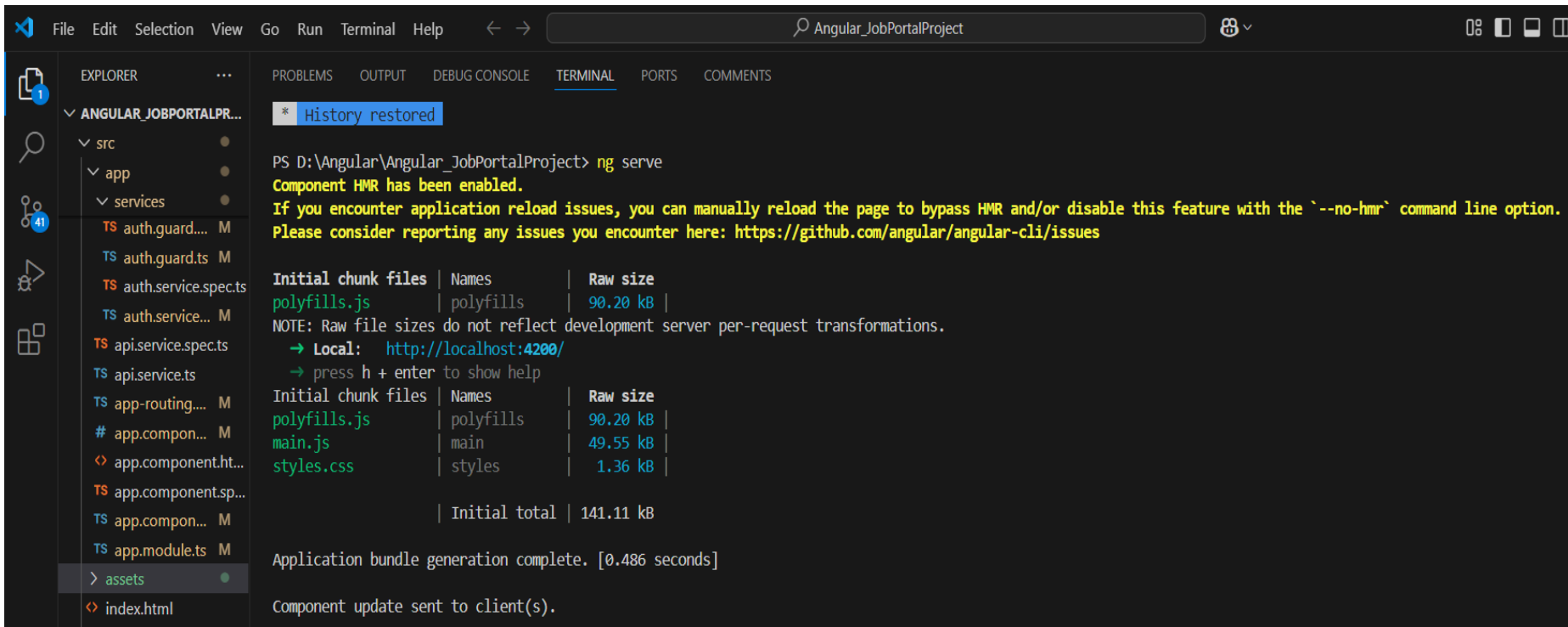
Index:
http://localhost:4500/

Static files:
Serving ./public directory if it exists

Endpoints:
http://localhost:4500/jobs
http://localhost:4500/enquiries
```



After running json server.....need to put the **ng serve** command to receive the port with url:



The screenshot shows the Visual Studio Code interface with the Angular CLI command `ng serve` executed in the terminal. The output indicates that the application has been built and is now running on `http://localhost:4200/`. The terminal also displays the initial chunk files and their raw sizes.

```
PS D:\Angular\Angular_JobPortalProject> ng serve
Component HMR has been enabled.
If you encounter application reload issues, you can manually reload the page to bypass HMR and/or disable this feature with the `--no-hmr` command line option.
Please consider reporting any issues you encounter here: https://github.com/angular/angular-cli/issues

Initial chunk files | Names | Raw size
polyfills.js | polyfills | 90.20 kB |
NOTE: Raw file sizes do not reflect development server per-request transformations.
→ Local: http://localhost:4200/
→ press h + enter to show help

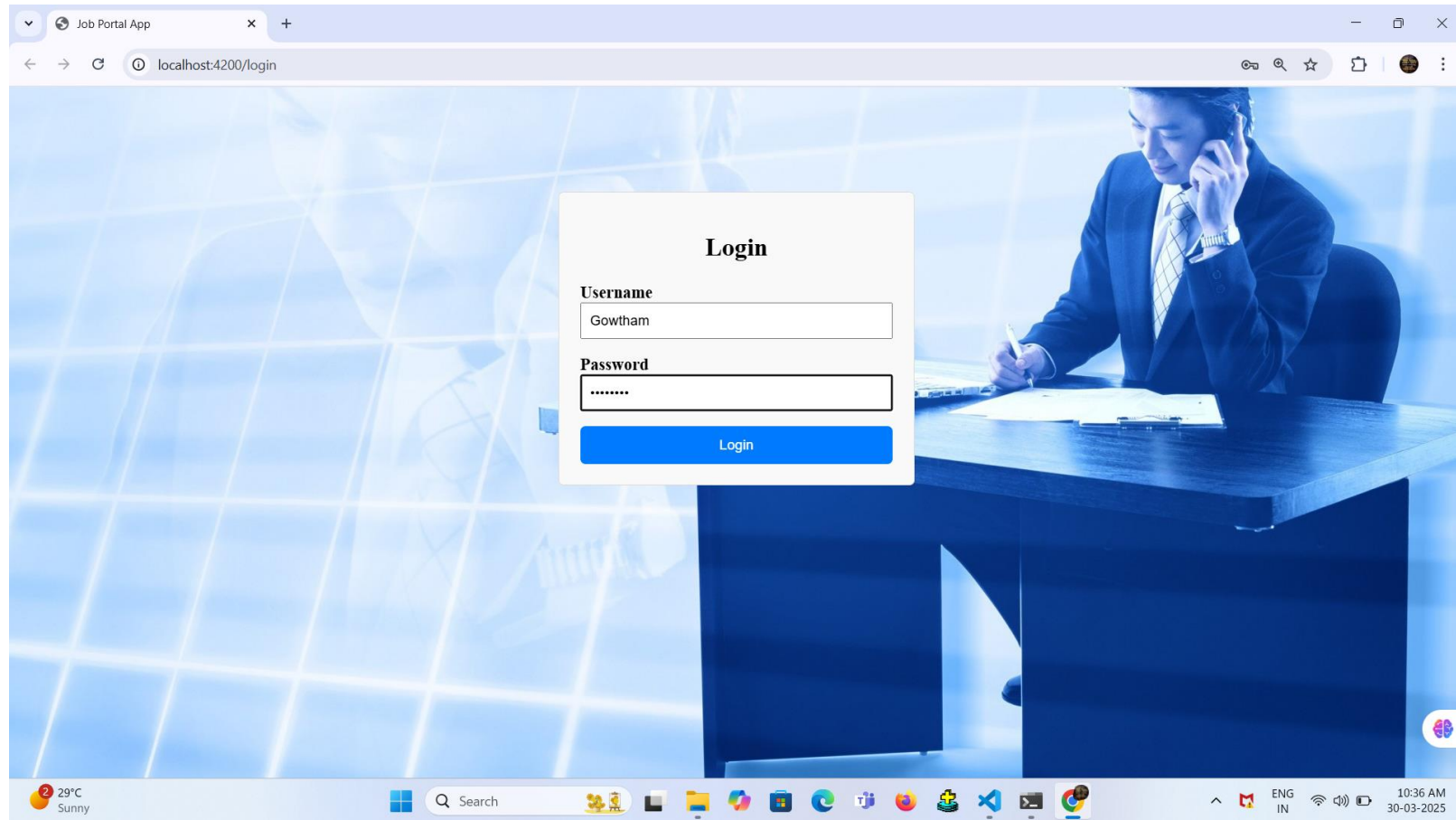
Initial chunk files | Names | Raw size
polyfills.js | polyfills | 90.20 kB |
main.js | main | 49.55 kB |
styles.css | styles | 1.36 kB |

| Initial total | 141.11 kB

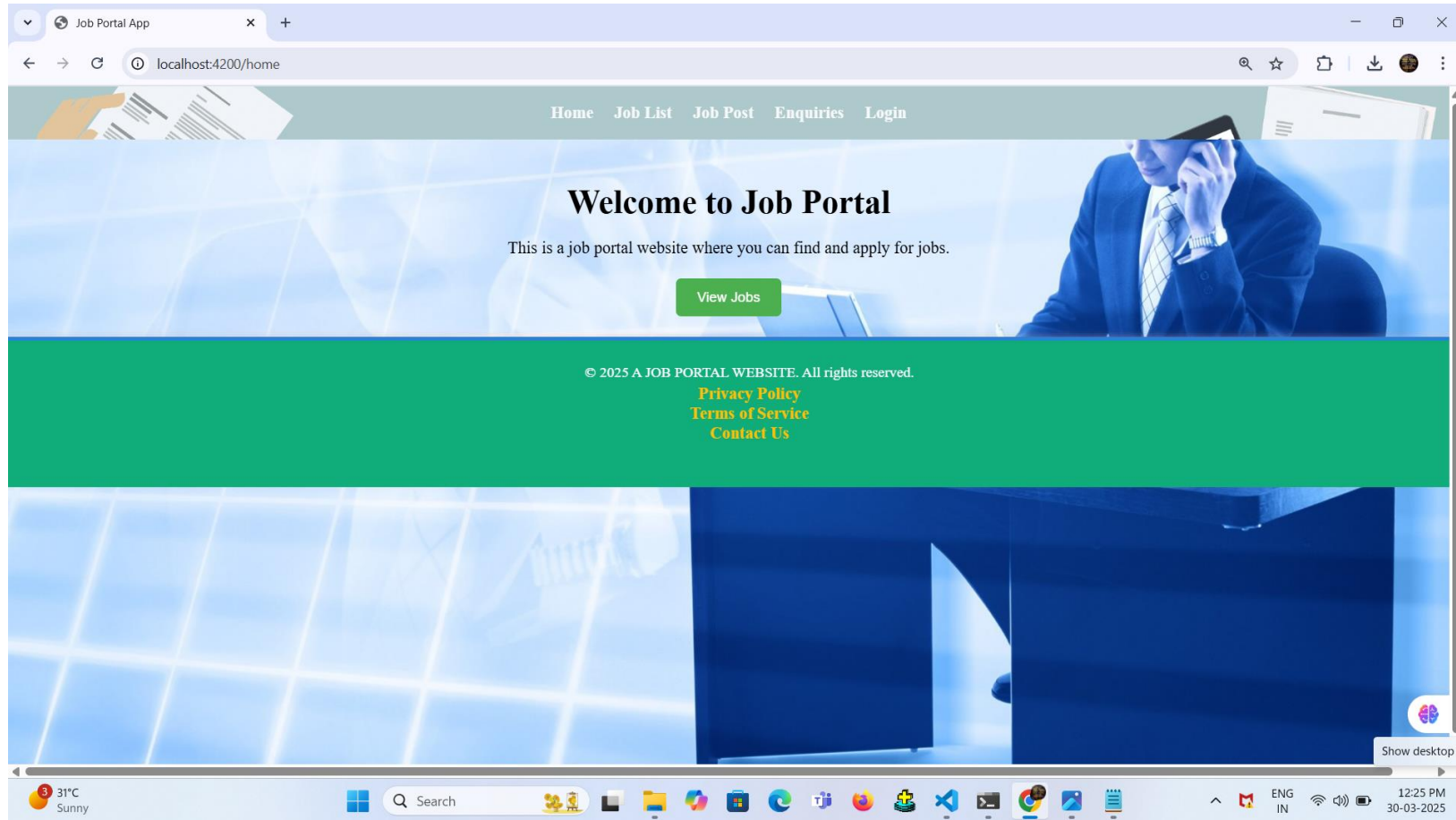
Application bundle generation complete. [0.486 seconds]
Component update sent to client(s).
```

The Explorer panel on the left shows the project structure, including the `src` directory with subdirectories `app` and `services`. The `assets` directory is also visible.

# Login Page screenshot



# Home Page of Job Portal



# Post Job Page of Job Portal

Job Portal App

localhost:4200/job-post

Home Job List Job Post Enquiries Login

## Post a Job

**Job Title**  
Enter job title

**Job Description**  
Enter job description

**Job Location**  
Enter job location

**Job Salary**  
Enter job salary

Post Job

Trending videos  
Golden retriever...

Search

ENG IN 12:34 PM 30-03-2025



If any job need to post, it can be posted by filling the form with its description,...

Job Portal App

localhost:4200/job-post

Home Job List Job Post Enquiries Login

### Post a Job

**Job Title**

**Job Description**

Design, develop, and test software applications to meet business requirements. Collaborate with cross-functional teams to identify and prioritize project requirements. Write clean, efficient, and well-documented code, ensuring high-quality software delivery. Troubleshoot and resolve technical issues, staying up-to-date with industry trends and emerging technologies.

**Job Location**

**Job Salary**

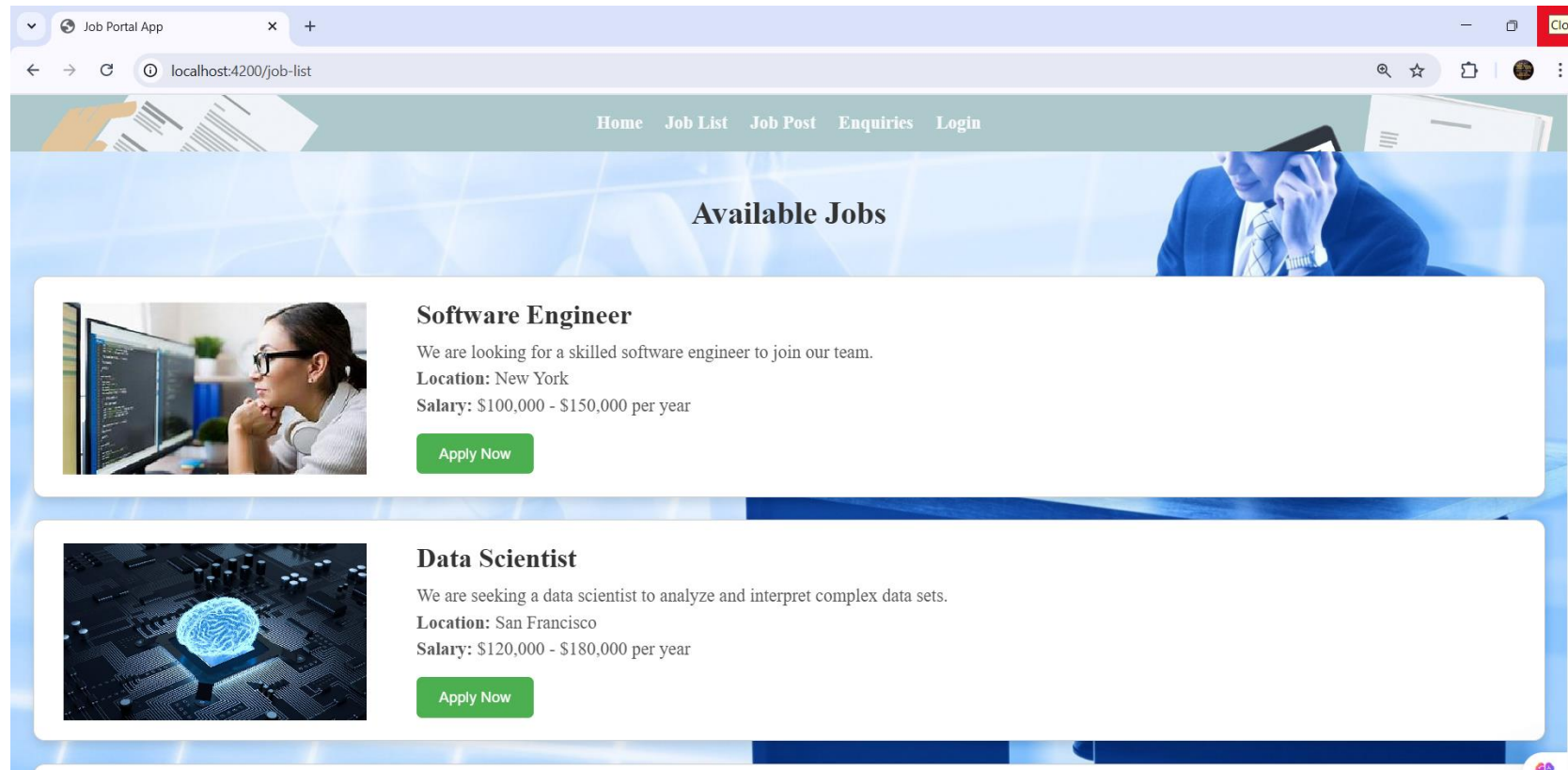
Post Job

Trending videos  
Golden retriever...

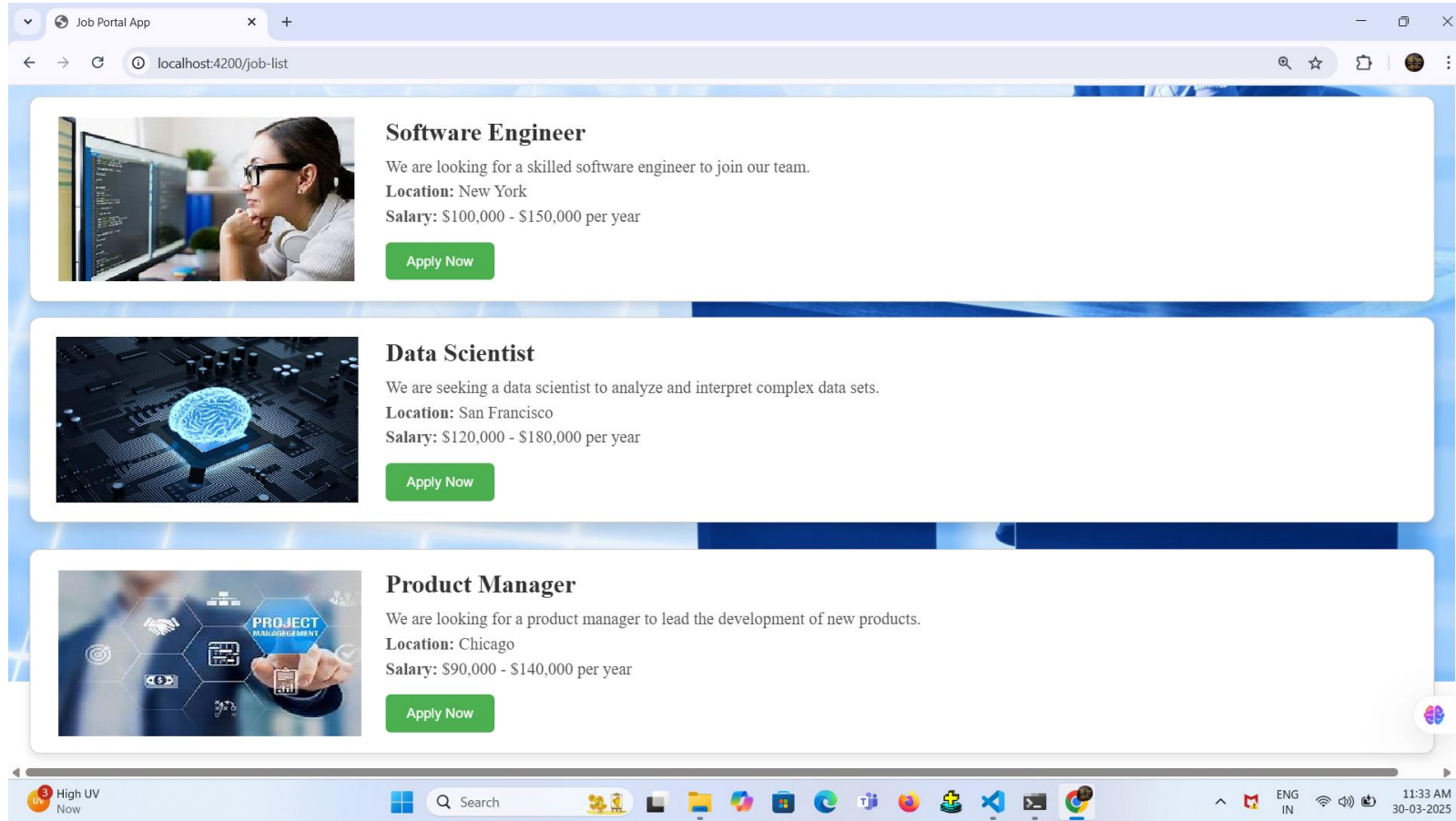
Search

ENG IN 12:34 PM 30-03-2025

Job List Page shows the available jobs...where the candidate can see and apply here...



# Full Page view of Available jobs:

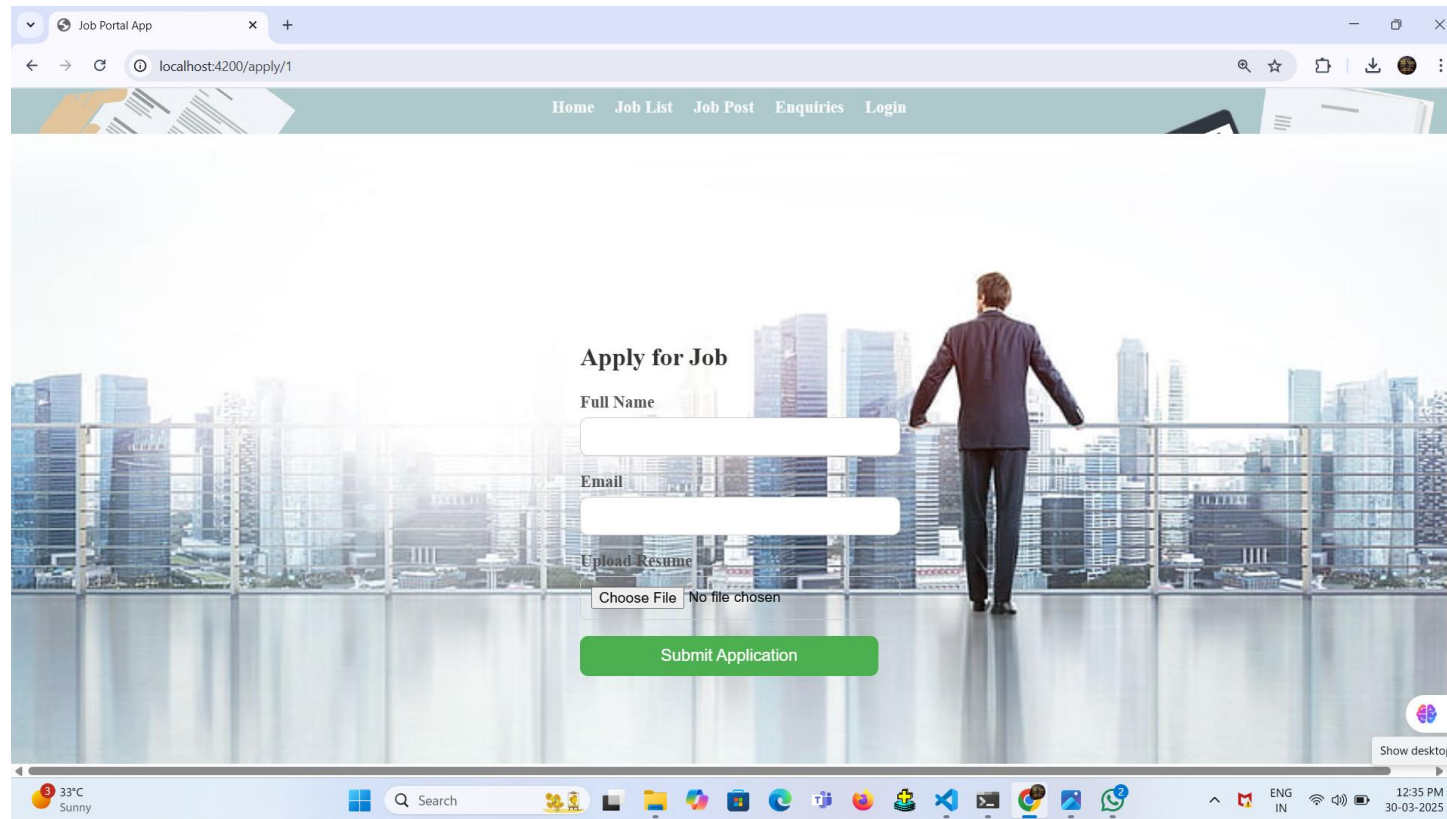


The screenshot displays a web browser window titled "Job Portal App" with the address bar showing "localhost:4200/job-list". The page features three job listings, each with a representative image, a title, a description, location, salary, and an "Apply Now" button.

- Software Engineer**  
We are looking for a skilled software engineer to join our team.  
**Location:** New York  
**Salary:** \$100,000 - \$150,000 per year  
[Apply Now](#)
- Data Scientist**  
We are seeking a data scientist to analyze and interpret complex data sets.  
**Location:** San Francisco  
**Salary:** \$120,000 - \$180,000 per year  
[Apply Now](#)
- Product Manager**  
We are looking for a product manager to lead the development of new products.  
**Location:** Chicago  
**Salary:** \$90,000 - \$140,000 per year  
[Apply Now](#)

The browser's taskbar at the bottom shows a "High UV Now" notification, a search bar, and various application icons. The system clock indicates 11:33 AM on 30-03-2025.

When Clicking Apply Now button, it will redirects to the **Apply for Job...**



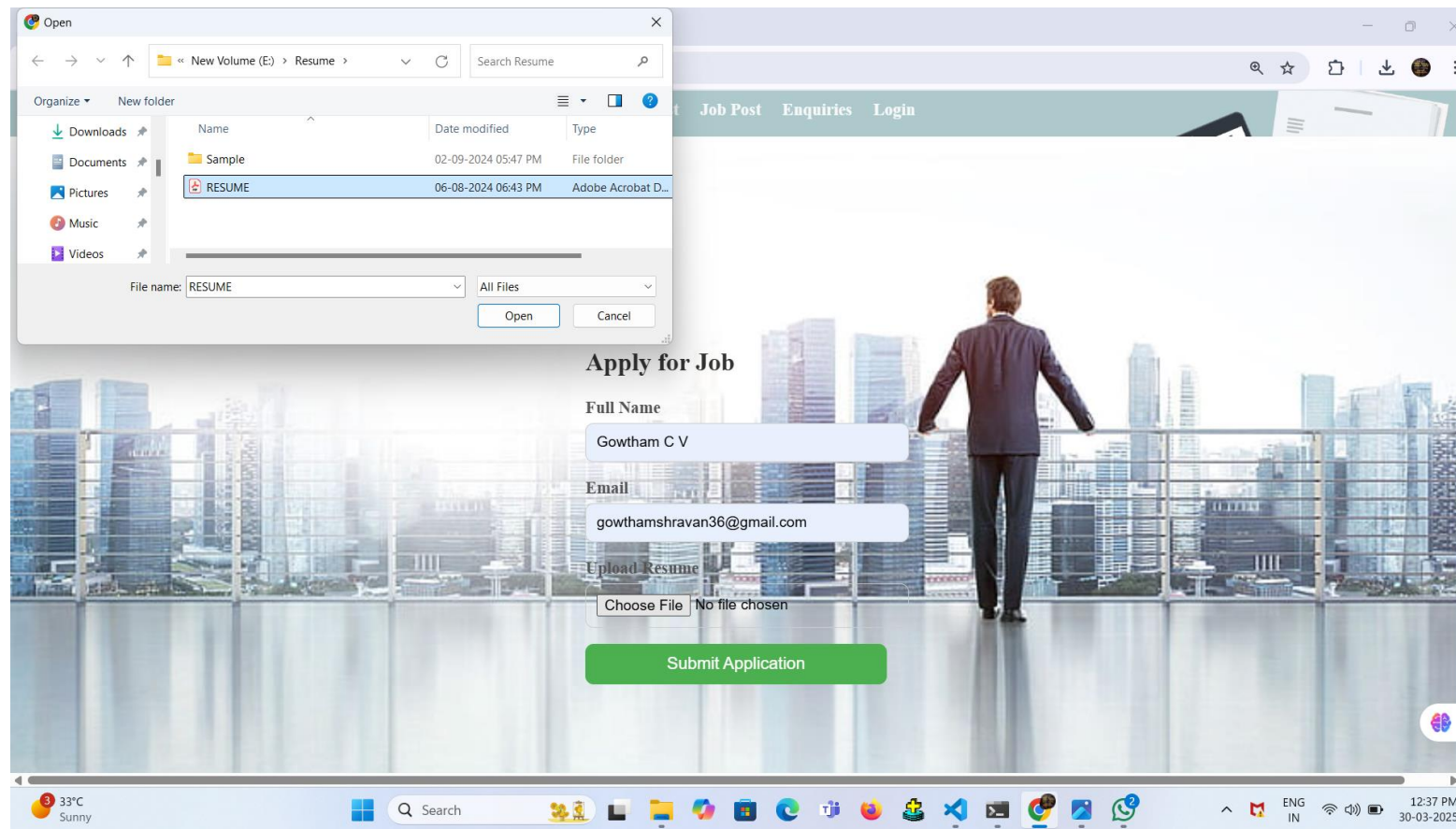
The screenshot displays a web browser window with the title 'Job Portal App'. The address bar shows 'localhost:4200/apply/1'. The navigation menu includes 'Home', 'Job List', 'Job Post', 'Enquiries', and 'Login'. The main content area features a background image of a person in a suit standing on a balcony overlooking a city skyline. Overlaid on this image is the 'Apply for Job' form, which includes the following fields and buttons:

- Full Name**: A text input field.
- Email**: A text input field.
- Upload Resume**: A section containing a 'Choose File' button and the text 'No file chosen'.
- Submit Application**: A green button at the bottom of the form.

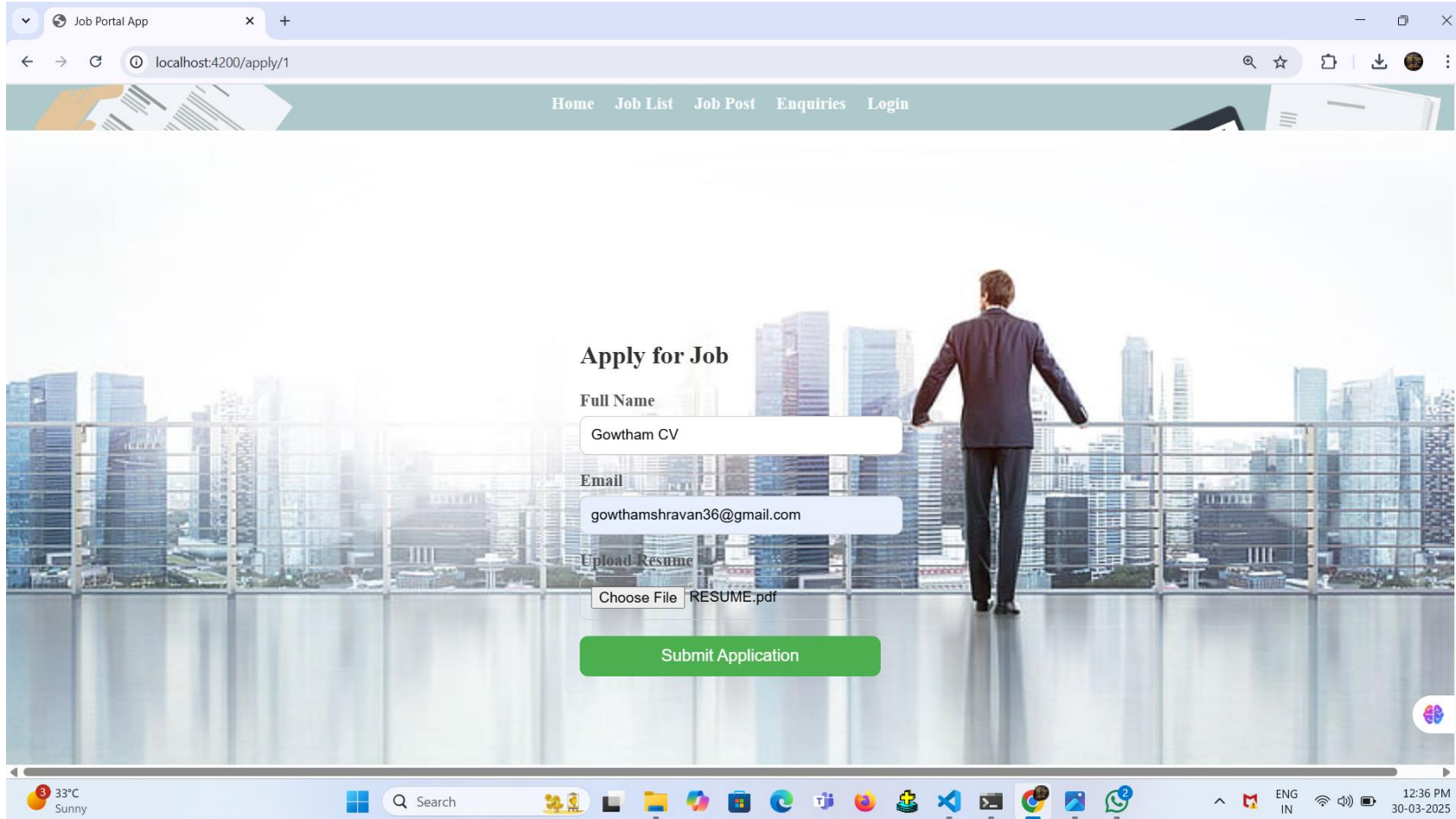
The Windows taskbar at the bottom shows the system clock as 12:35 PM on 30-03-2025, with a temperature of 33°C and a 'Sunny' weather forecast.



The candidate can apply for the job by filing the details along with their resume...



After submitting their resume, they can submit the application...



Job Portal App

localhost:4200/apply/1

Home Job List Job Post Enquiries Login

### Apply for Job

Full Name

Gowtham CV

Email

gowthamshravan36@gmail.com

Upload Resume

Choose File RESUME.pdf

Submit Application

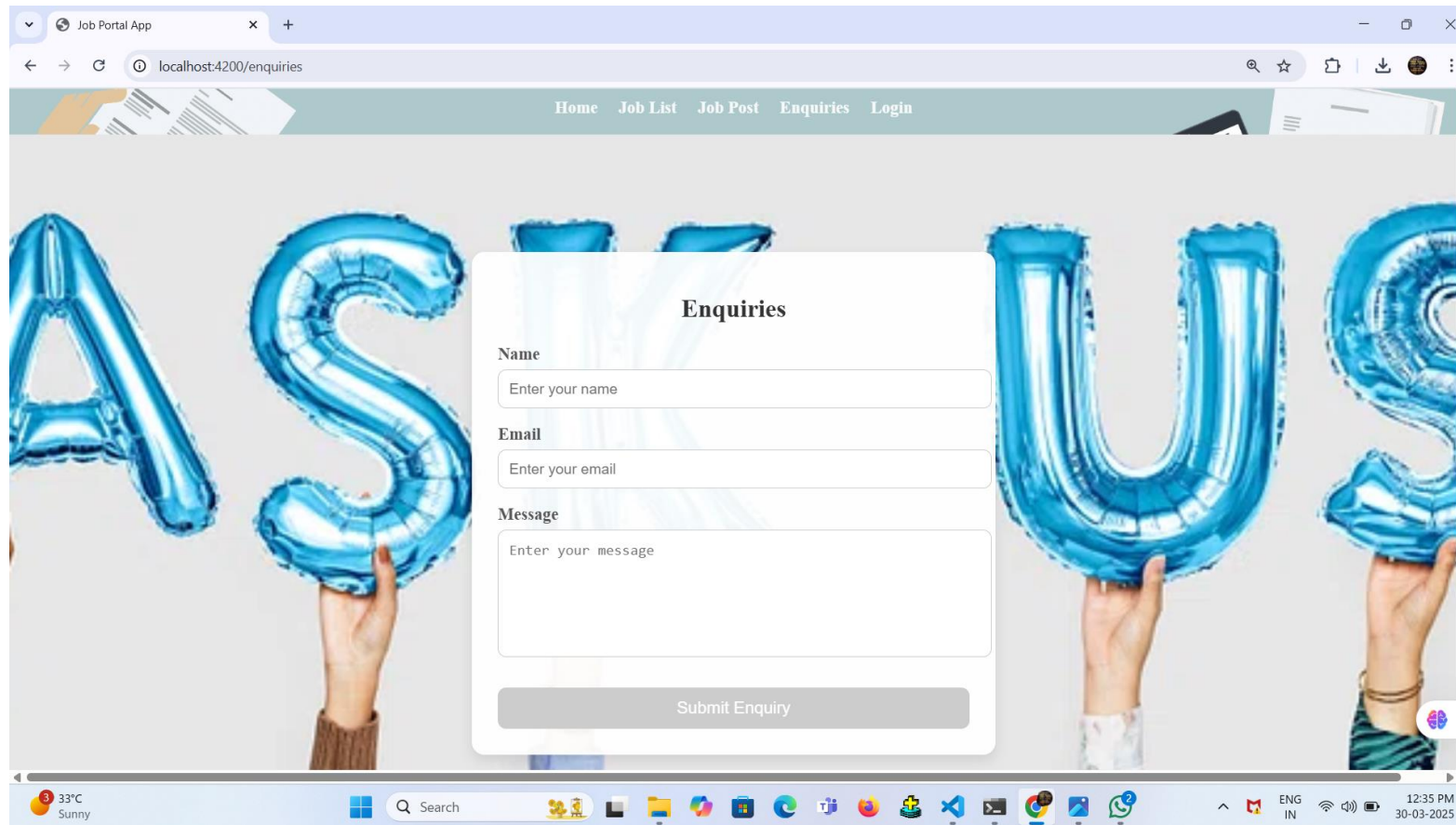
33°C Sunny

Search

ENG IN

12:36 PM 30-03-2025

If any enquiries regarding the job role, they can ask by filling the enquiry form...

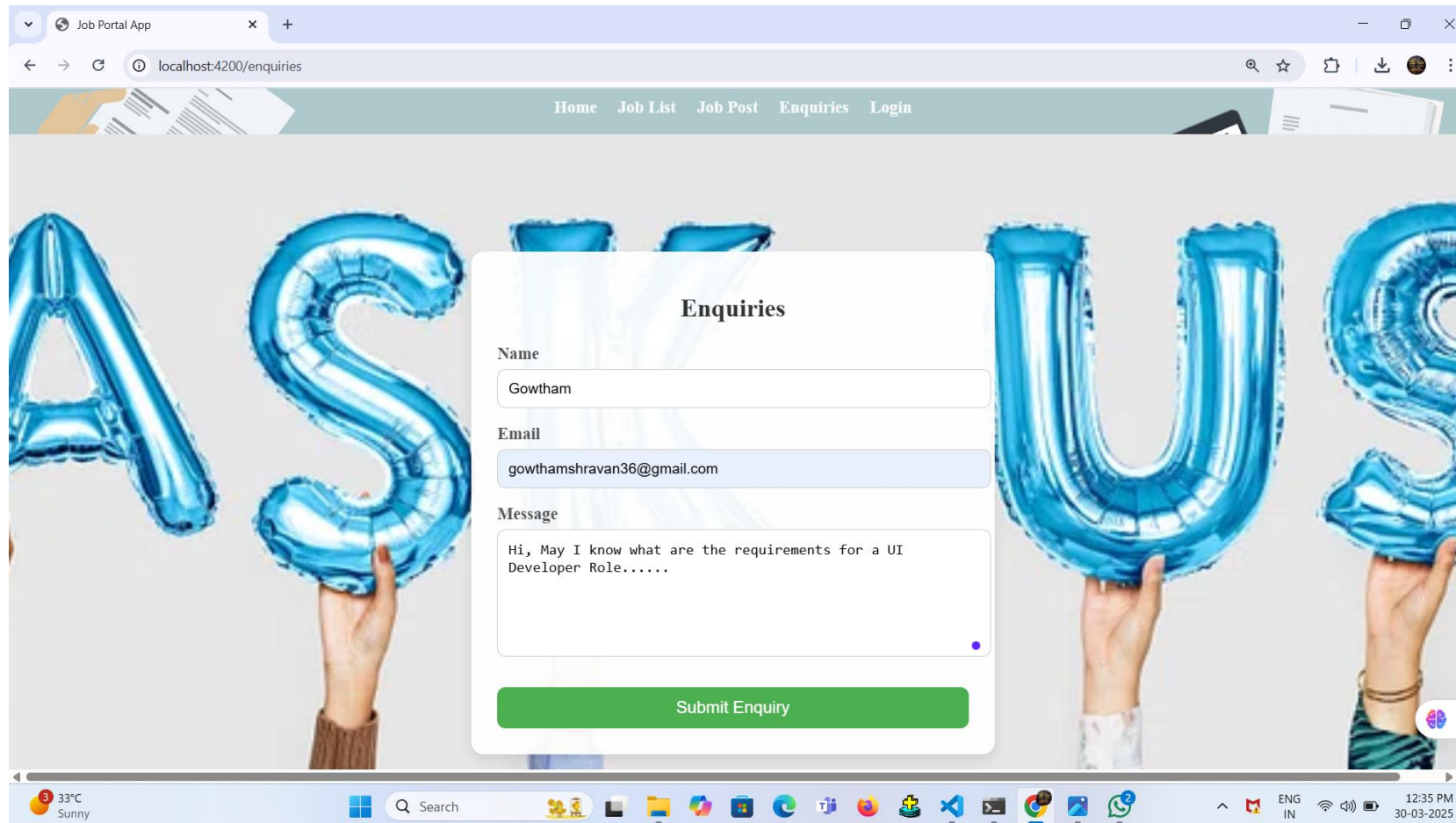


The screenshot displays a web browser window titled 'Job Portal App' with the address bar showing 'localhost:4200/enquiries'. The navigation menu includes 'Home', 'Job List', 'Job Post', 'Enquiries', and 'Login'. The background features large blue balloons spelling 'ASUS' held by hands. A white 'Enquiries' form is centered over the page, containing the following fields:

- Name**: A text input field with the placeholder 'Enter your name'.
- Email**: A text input field with the placeholder 'Enter your email'.
- Message**: A text area with the placeholder 'Enter your message'.
- Submit Enquiry**: A grey button at the bottom of the form.

The Windows taskbar at the bottom shows the system clock as 12:35 PM on 30-03-2025, with a temperature of 33°C and 'Sunny' weather.

Finally the enquiry form will be submitted...after filling the details



The screenshot shows a web browser window titled "Job Portal App" with the address bar displaying "localhost:4200/enquiries". The browser's navigation bar includes links for "Home", "Job List", "Job Post", "Enquiries", and "Login". The background of the page features large blue balloons spelling out "ASUS". Overlaid on this is a white "Enquiries" form. The form contains the following fields:

- Name:** A text input field containing the name "Gowtham".
- Email:** A text input field containing the email address "gowthamshravan36@gmail.com".
- Message:** A text area containing the message "Hi, May I know what are the requirements for a UI Developer Role.....".

At the bottom of the form is a green button labeled "Submit Enquiry". The browser's status bar at the bottom shows a temperature of 33°C, a "Sunny" weather icon, a search bar, and system icons for language (ENG IN), network, and time (12:35 PM, 30-03-2025).



# Conclusion

The **Angular Job Portal Application** is a dynamic and responsive platform that enables job seekers to explore listings and apply for positions seamlessly. Built using **Angular with standalone components**, it ensures a modular and maintainable architecture. The project integrates **REST APIs** for data fetching, provides secure **authentication**, and uses **routing** for smooth navigation. It supports **mock APIs** using JSON Server during development and is optimized for production with **NGINX deployment**. This project effectively demonstrates practical knowledge of Angular concepts and serves as a scalable foundation for future enhancements.