



Online Learning App

using Angular

Problem Statement

Develop a Comprehensive Single Page Application (SPA) in Angular Utilizing the Following Concepts:

- Components
- Parent-Child Components
- Directives (Structural, Attribute)
- @Input and @Output
- Routing and Routing Parameters
- Local Storage
- Routing Guards
- Services and Observables
- API Calls
- Form Handling (Template and Model-Based Approaches)
 - Inbuilt Pipes Custom Pipes





Website Features

01.

Listing Top course;

The home page, built with Angular, utilizes distinct components for each section, providing a modular and organized layout. It features a prominent hero section with a call-to-action, seamless navigation through Angular's routing,



02.

User Authentication Signup & Login

– Users must register and log in before accessing destinations. Session Persistence – Users remain logged in until they manually log out. Auth Guards – Prevent unauthorized access to itinerary and booking pages.

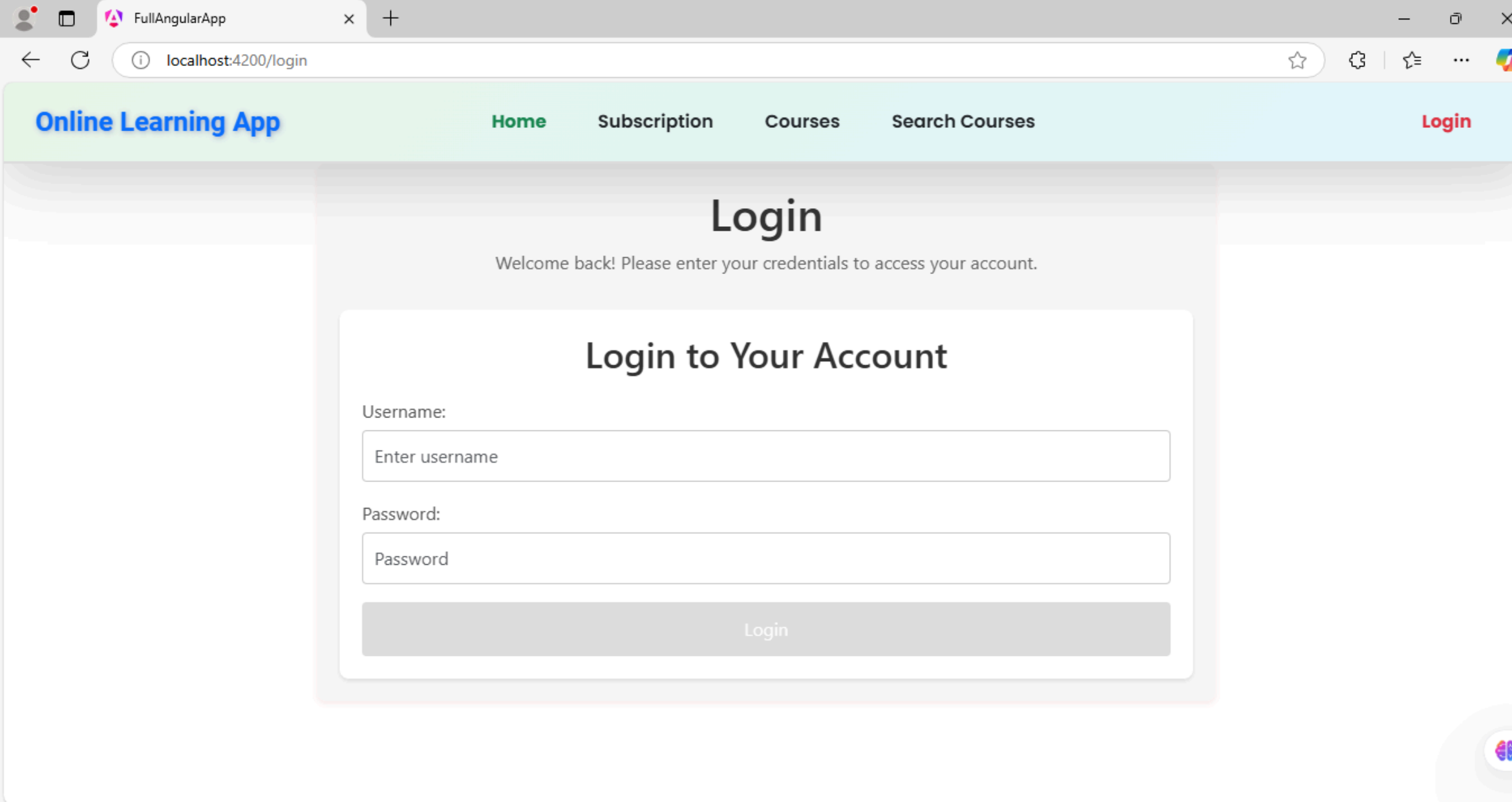
03.

Advanced Angular Features

- 1.Components & Routing: Organized navigation across various pages for a seamless user experience.
 - 2.Pipes for Data Formatting: Formats costs, dates, and filters for clear presentation of information.
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Login page

The login page ensures user authentication. It also helps in enabling the premium features to the logged in users. Angular's guard feature is used to achieve this.



The screenshot shows a web browser window with the address bar displaying 'localhost:4200/login'. The page has a light blue header with the text 'Online Learning App' on the left and navigation links 'Home', 'Subscription', 'Courses', 'Search Courses', and 'Login' on the right. The main content area features a large 'Login' heading, a welcome message 'Welcome back! Please enter your credentials to access your account.', and a 'Login to Your Account' section. This section contains two input fields: 'Username:' with a placeholder 'Enter username' and 'Password:' with a placeholder 'Password'. Below these fields is a grey 'Login' button. A small circular logo is visible in the bottom right corner of the page.

FullAngularApp

localhost:4200/login

Online Learning App

Home Subscription Courses Search Courses Login

Login

Welcome back! Please enter your credentials to access your account.

Login to Your Account

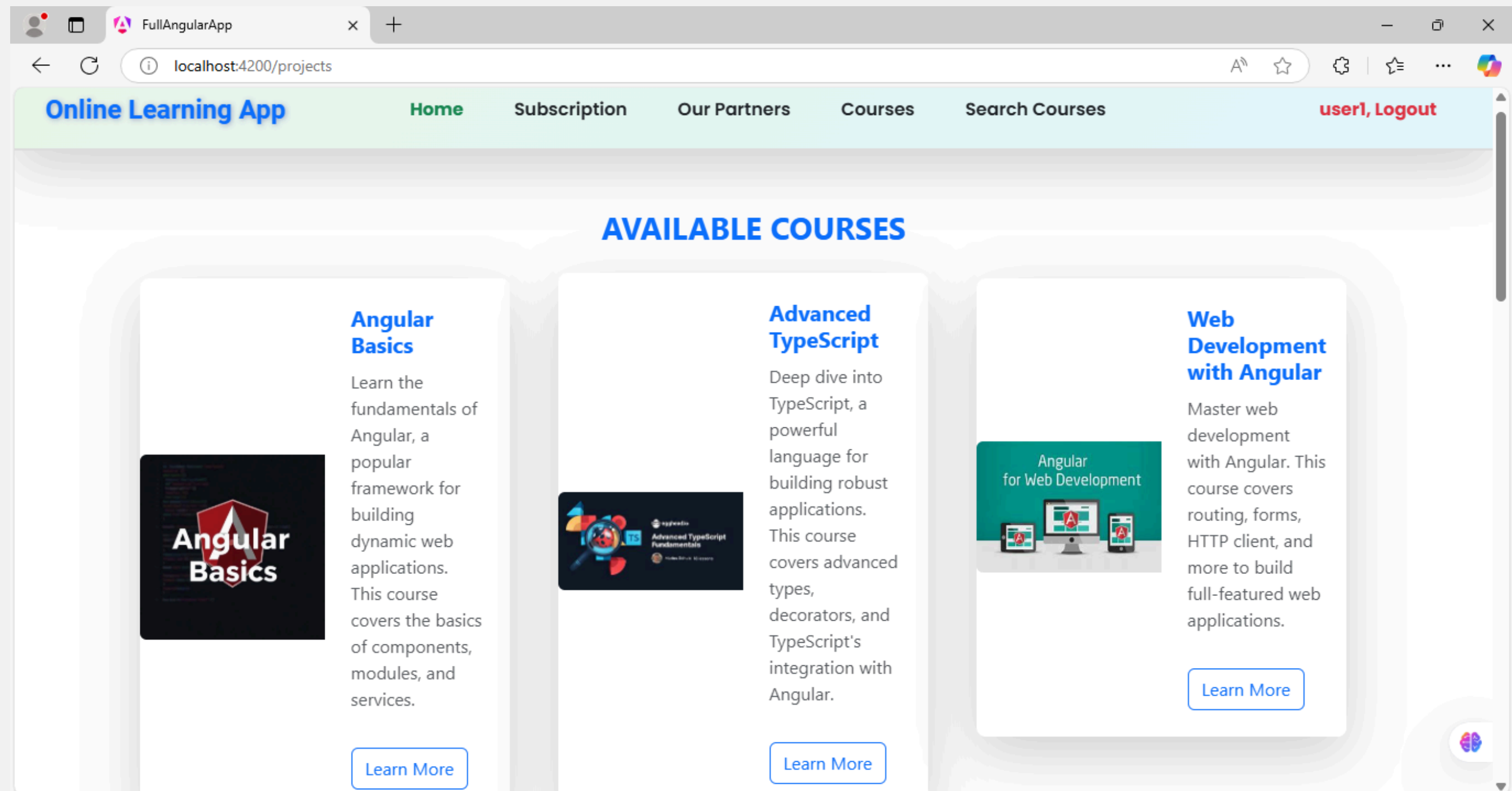
Username:

Password:

Login

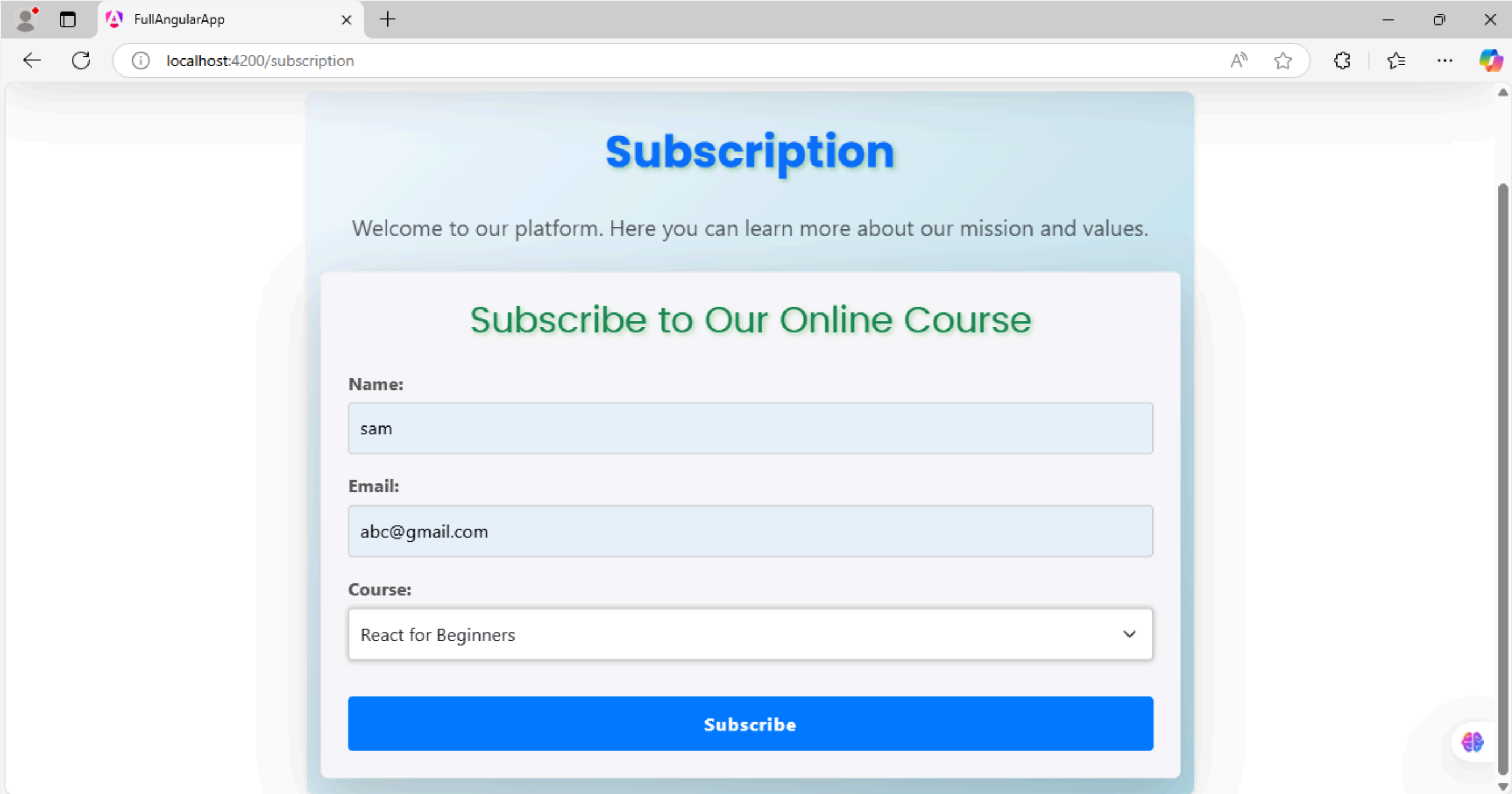
Course page

This page lists all the courses available. To achieve this, I have used an API service to fetch the real-time data using a JSON server to dynamically display the courses with title, description, and a Learn more button.



Subscription page

This page enables users to subscribe to our online courses, granting them access to course materials.



The screenshot shows a web browser window with the title 'FullAngularApp' and the address bar displaying 'localhost:4200/subscription'. The page content is as follows:

Subscription

Welcome to our platform. Here you can learn more about our mission and values.

Subscribe to Our Online Course

Name:

Email:

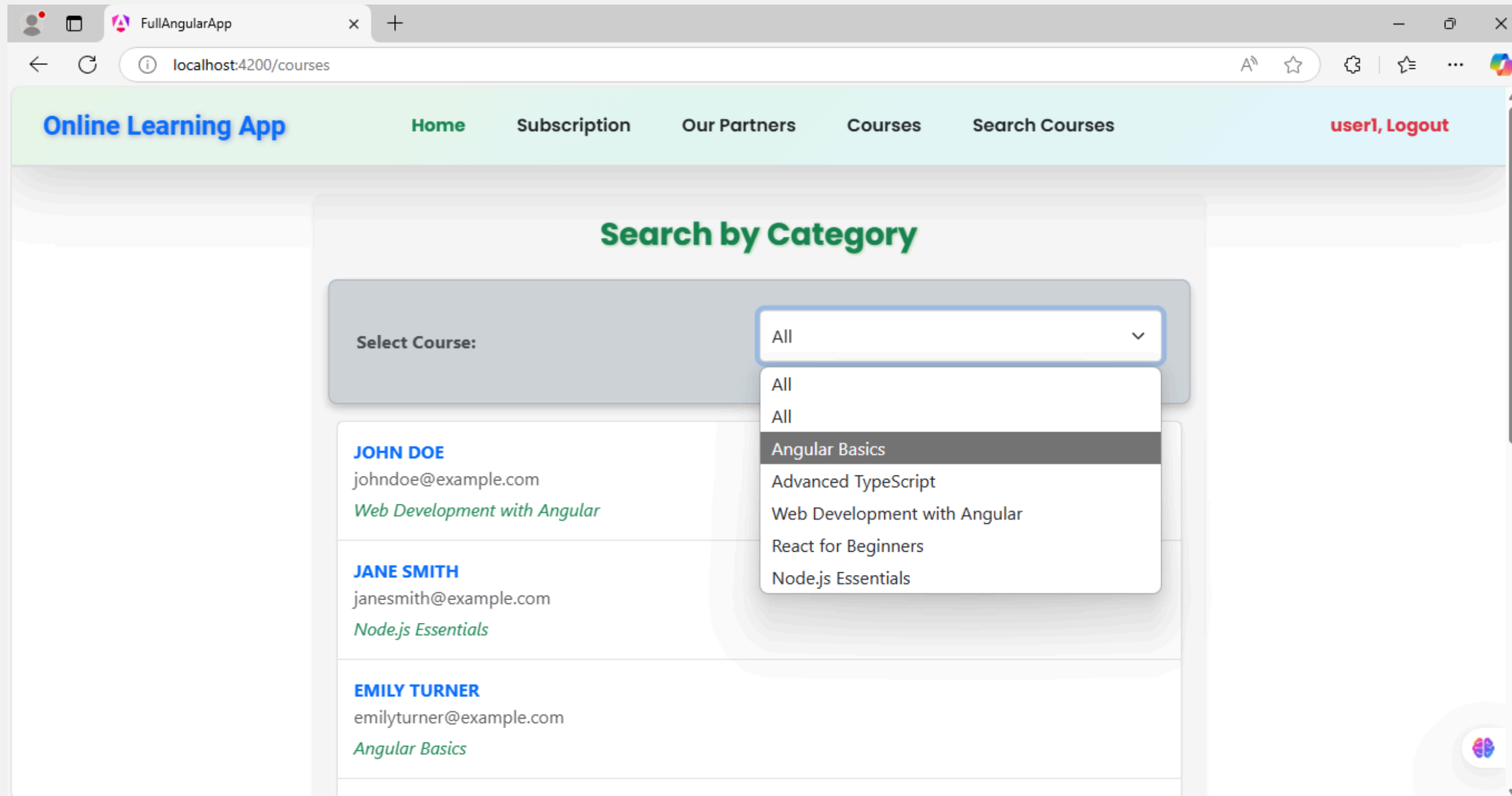
Course:

React for Beginners ▼

Subscribe

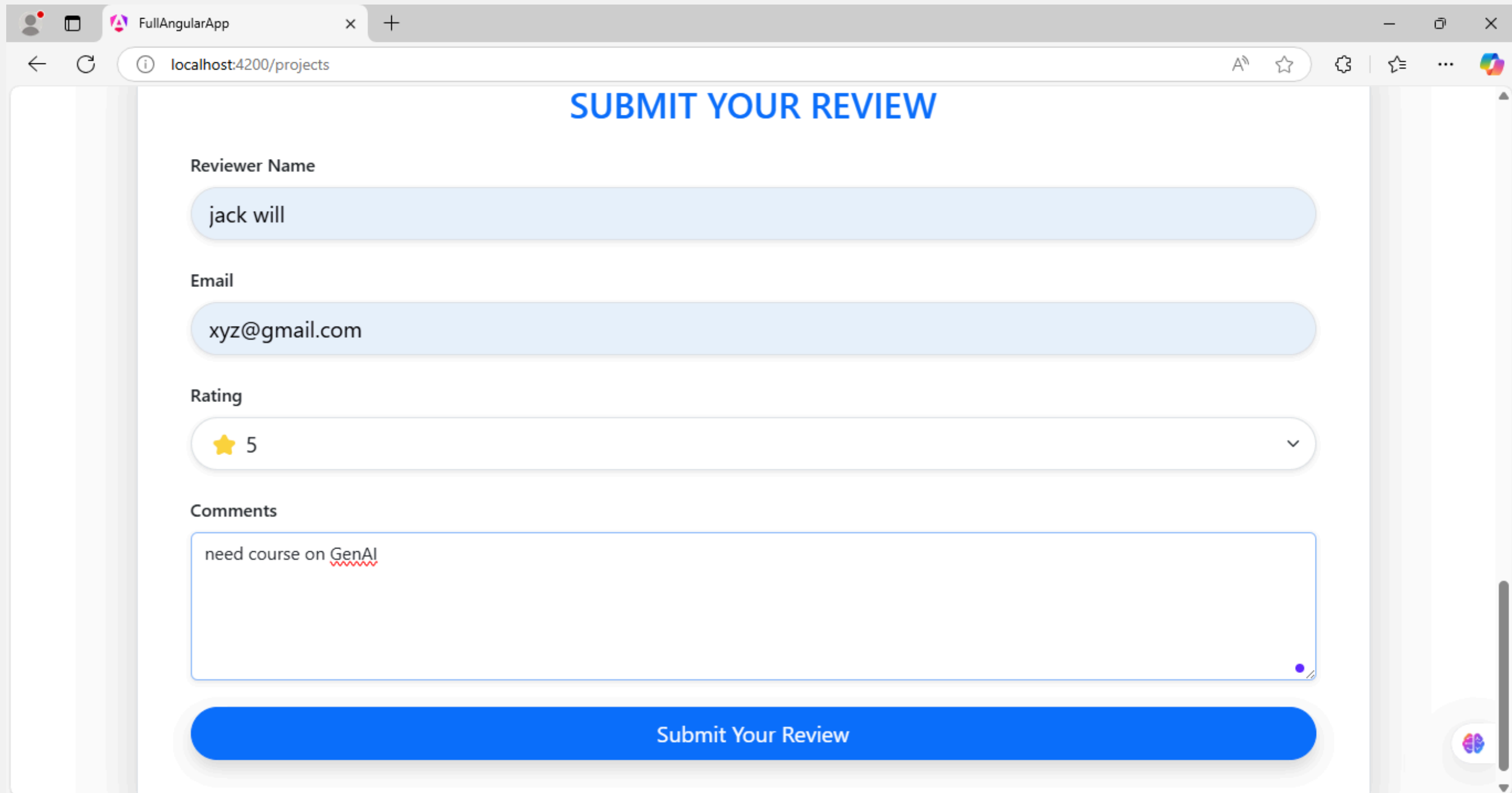
Search page

This page allows users to search for courses based on the author's name or by technology category. To improve user experience, I have utilized Angular's built-in pipes along with my own custom pipe features.



Review page

This is where users can leave their reviews, sharing their experiences regarding the ease of use of this site and expressing their needs. To create this review form, I utilized a model-based approach.



The screenshot displays a web browser window with the address bar showing 'localhost:4200/projects'. The page title is 'FullAngularApp'. The main content area features a form titled 'SUBMIT YOUR REVIEW' in blue text. The form consists of the following fields:

- Reviewer Name:** A light blue rounded input field containing the text 'jack will'.
- Email:** A light blue rounded input field containing the text 'xyz@gmail.com'.
- Rating:** A dropdown menu showing a yellow star icon and the number '5'.
- Comments:** A text area containing the text 'need course on GenAI'.

At the bottom of the form is a large blue button with the text 'Submit Your Review'.

Conclusion

1. **Component-Based Architecture:** The application is structured using reusable components, allowing for modular development and easier maintenance.
2. **Seamless Routing:** It provides organized navigation between different pages, enhancing user experience and accessibility.
3. **Data Formatting with Pipes:** Angular pipes are utilized to display formatted information, such as costs and dates, clearly and effectively.
4. **Real-Time Updates:** Observables and services enable real-time data updates, ensuring users receive instant notifications about changes.
5. **User-Centric Design:** The overall design focuses on enhancing user engagement through responsive features and intuitive navigation.

The background is a light gray color, decorated with various hand-drawn blue doodles. These include several overlapping circles and loops at the top, a series of small 'v' marks at the bottom, and some abstract scribbles on the left and right sides. The central text is in a bold, black, sans-serif font with a white drop shadow.

**Thank you
very much!**