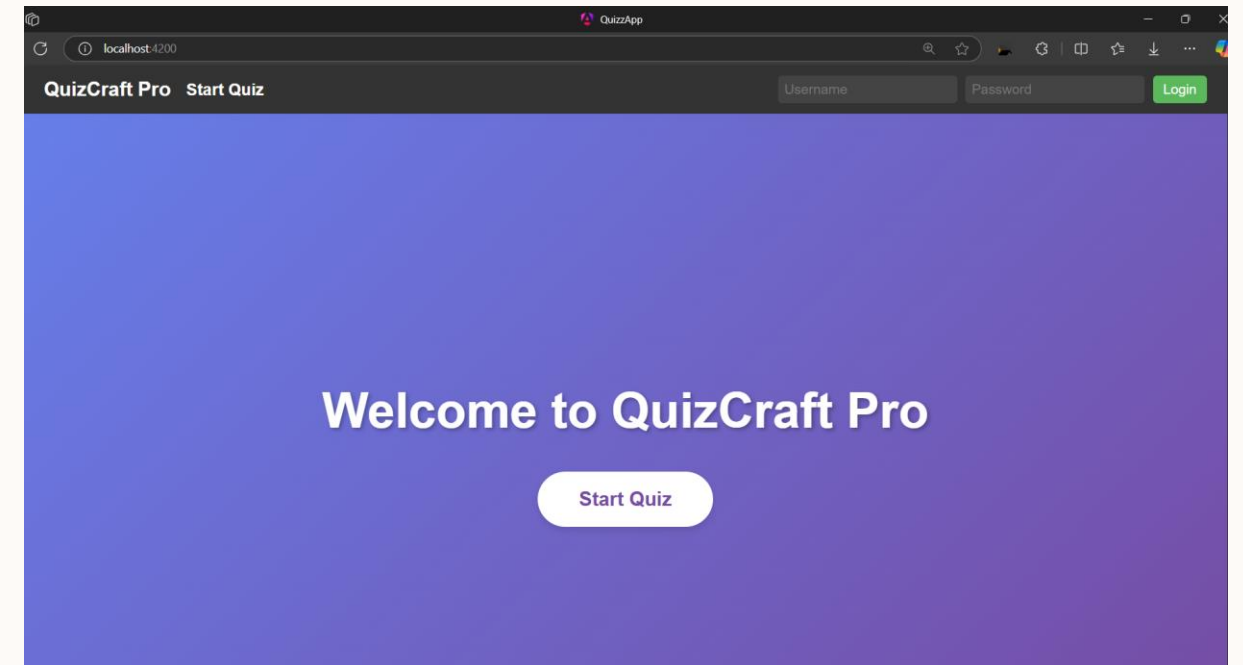


# Angular Project: Quiz App

Embark on an engaging journey to develop an interactive quiz application using Angular. This presentation outlines the project's objectives, key features, and technical implementation. Learn how to build a functional app while exploring Angular directives, services, and security measures.

by Dinesh kumar M



# User Flow & Quiz Functionality

## 1 Difficulty Selection

Users choose difficulty: Easy, Medium, or Hard.

## 2 Question Display

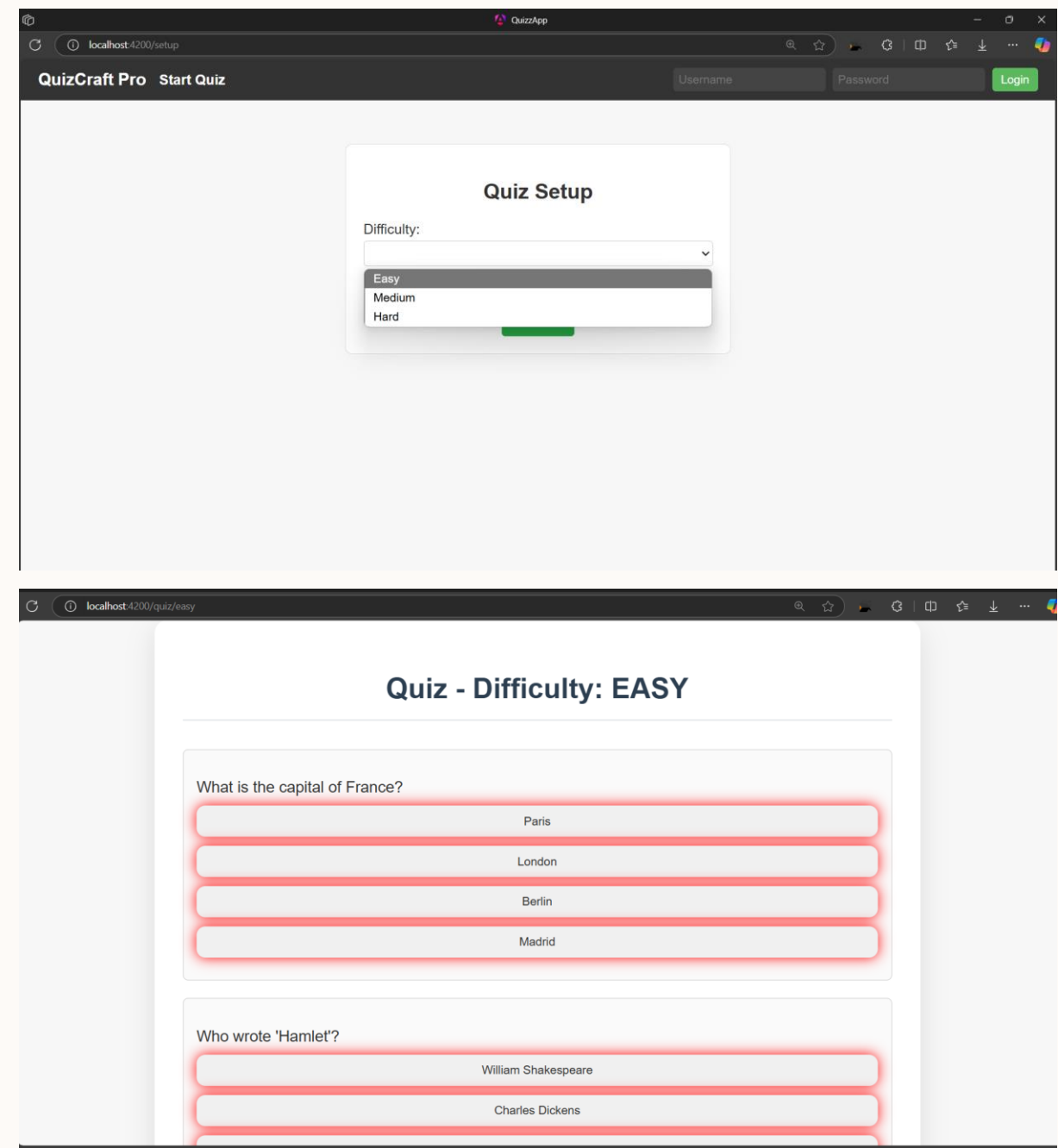
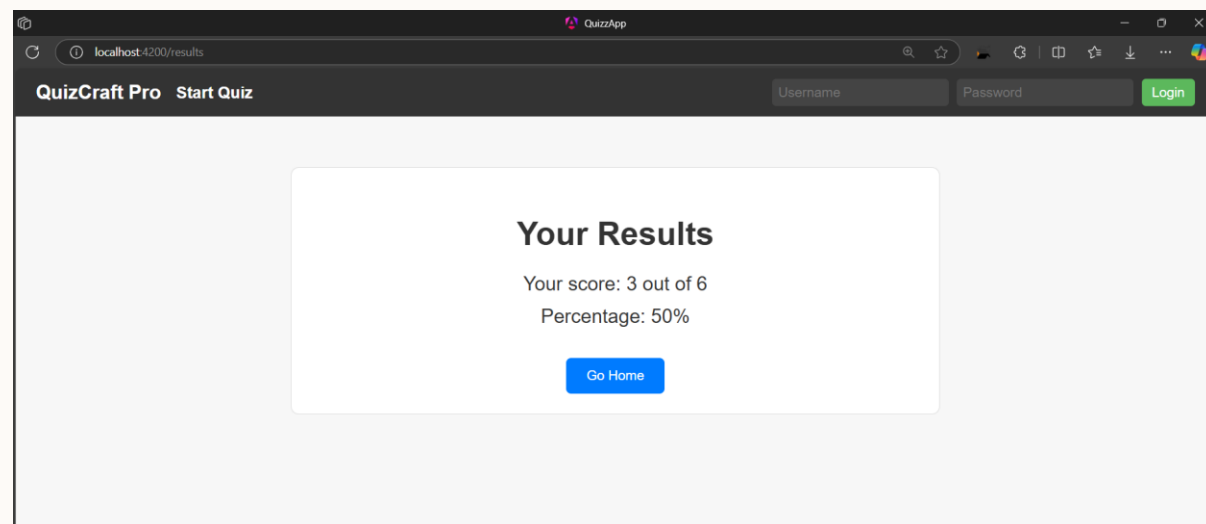
A list of questions is dynamically displayed.

## 3 Single Response

Users respond to each question only once.

## 4 Results

Results are displayed: e.g., "2 out of 5 correct (40%)".



# Admin Panel & Authentication

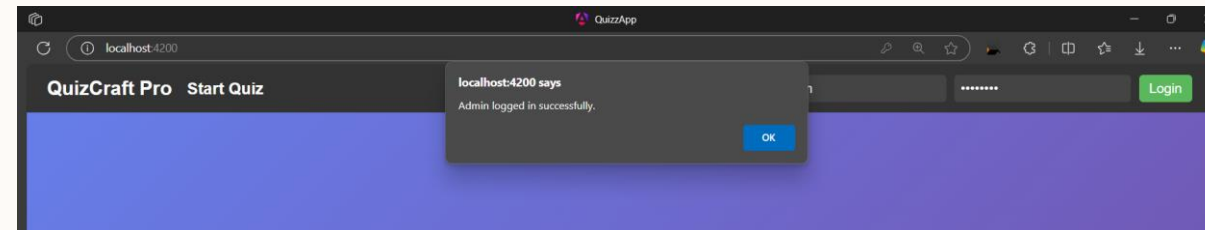
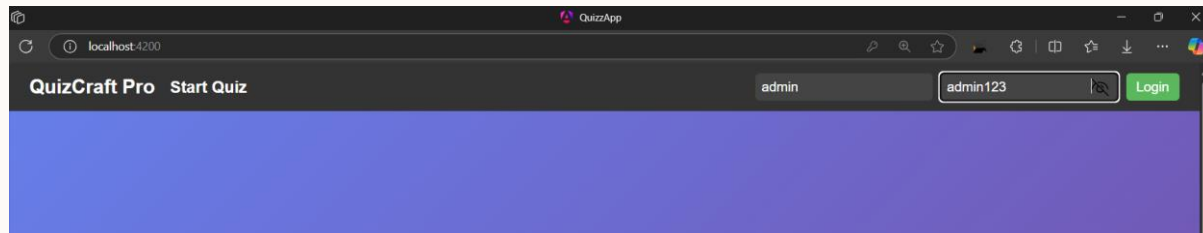
## Admin Features

- Add new questions.
- Categorize by difficulty.
- Form after authentication.

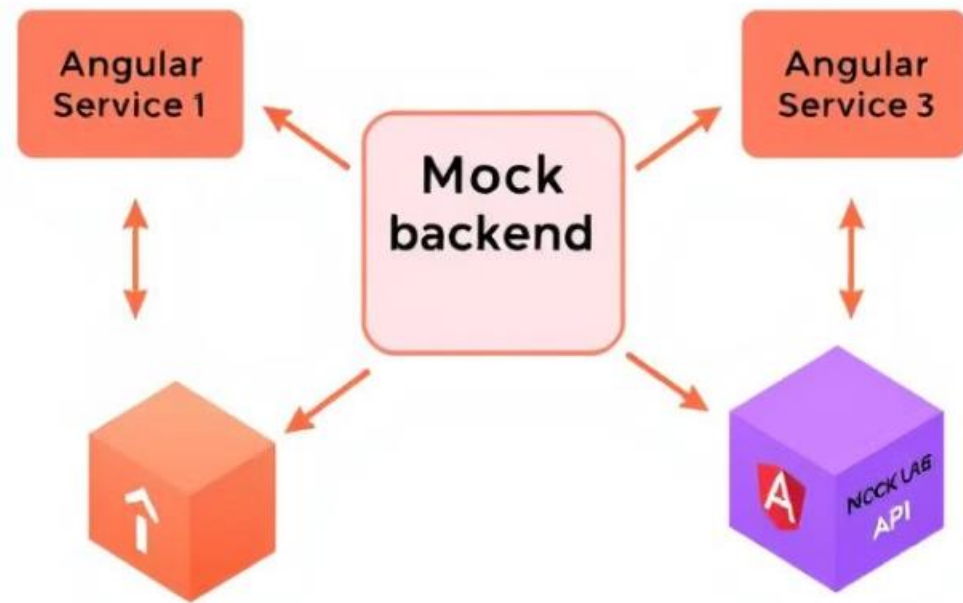
## Authentication

Login required (admin/admin123).

**AuthGuard** secures the admin panel.



```
login(): void {  
  // Example hardcoded authentication  
  if (this.adminUsername === 'admin' && this.adminPassword === 'admin123') {  
    this.adminAuthService.login();  
  
    //store in localStorage  
  
    // Store admin credentials in localStorage  
    localStorage.setItem('adminUsername', this.adminUsername);  
    localStorage.setItem('isAdminLoggedIn', 'true');
```



# Services & Methods Implementation

## Fetch Questions

Get quiz questions from the json server.

## Submit Responses

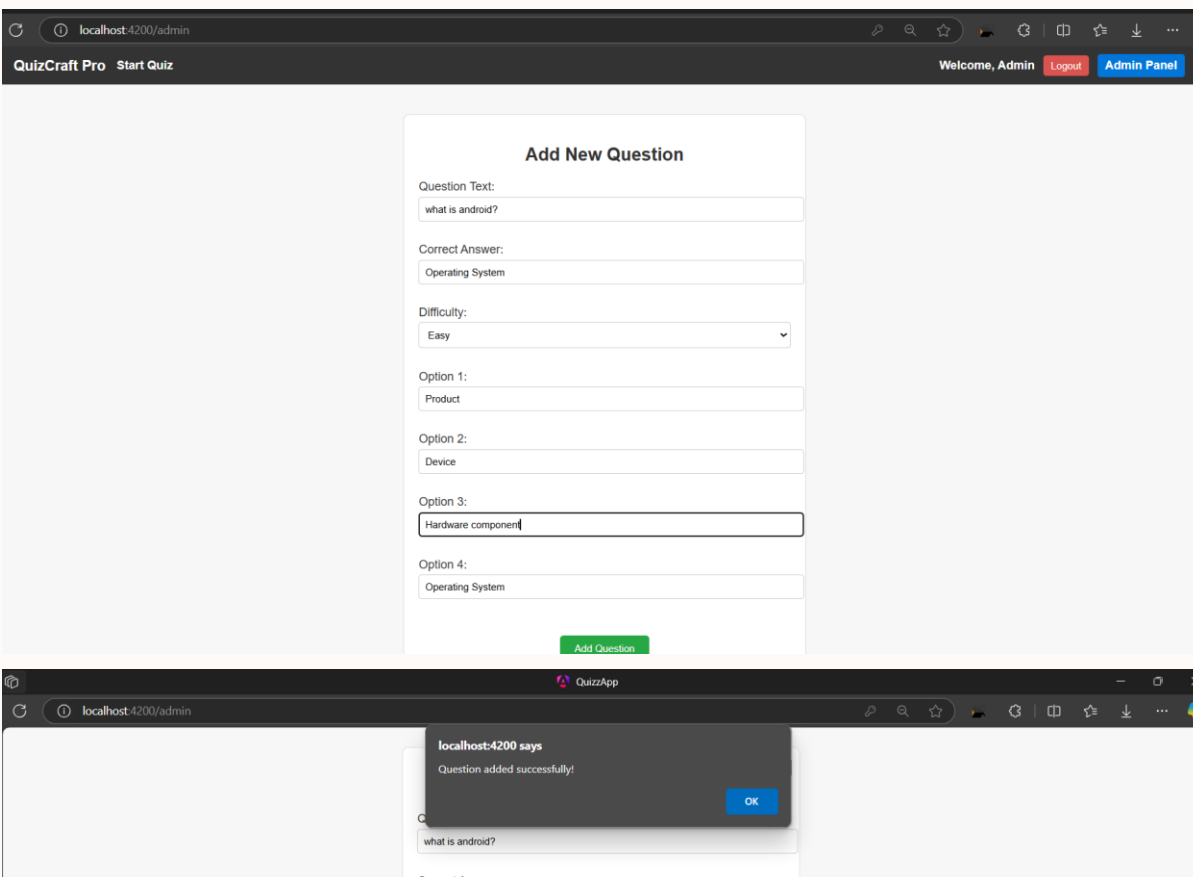
Submit user responses to the json server.

## Admin Auth

admin authentication (hard coded)

## Store Questions

Categorize questions by difficulty.



# Styling & UI Design

## CSS Styling

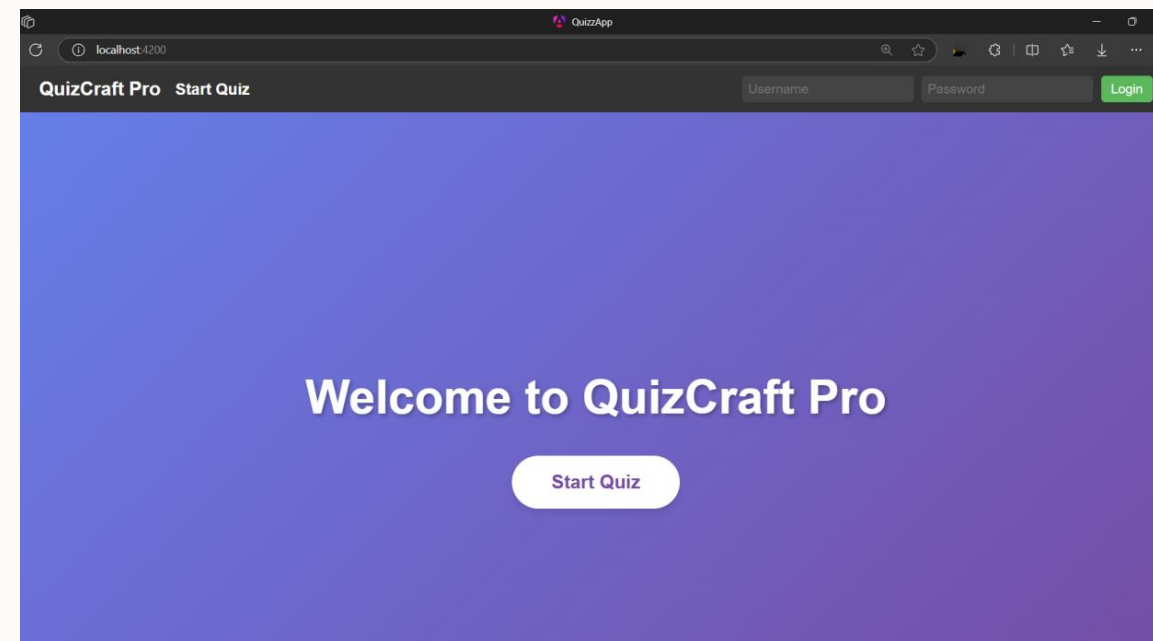
Designed with CSS for responsiveness.

## User-Friendly

Clean, intuitive user interface.

## Highlight Answers

Attribute directive highlights correct answers.



# Technology Stack

 Frontend: Angular

 Backend: JSON Server

 Styling: CSS

The quiz app utilizes Angular for the frontend, JSON Server for the mock backend, and CSS for styling. This stack provides a solid foundation for building interactive and responsive web applications.



# Achievements

## 1

### Functional App

Successfully built a functional quiz app.

## 2

### Angular Skills

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

This project enabled practical experience with key Angular concepts. Further improvements can enhance the application's features and user engagement.

