COURSE MANAGEMENT SYSTEM

A COMPREHENSIVE ANGULAR SPA IMPLEMENTATION

PROJECT OVERVIEW

- A SINGLE PAGE APPLICATION (SPA) BUILT USING ANGULAR.

- IMPLEMENTS COURSE MANAGEMENT FUNCTIONALITIES.

- USES JSON SERVER AS A BACKEND.

- COVERS ALL MAJOR ANGULAR CONCEPTS.

FEATURES IMPLEMENTED

✔ USER AUTHENTICATION (LOGIN/LOGOUT)

✔ HOME PAGE WITH NAVIGATION

✔ COURSE LIST WITH DETAILS

✔ ADD, UPDATE, AND DELETE COURSES

✔ API CALLS USING JSON SERVER

✔ ROUTE GUARDS FOR AUTHENTICATION

ANGULAR CONCEPTS USED

- COMPONENTS & PARENT-CHILD COMMUNICATION

- DIRECTIVES (STRUCTURAL & ATTRIBUTE)

- @INPUT AND @OUTPUT

- ROUTING & ROUTE PARAMETERS

- LOCAL STORAGE FOR AUTHENTICATION

- ROUTE GUARDS FOR PROTECTION

- SERVICES & OBSERVABLES

- FORM HANDLING (TEMPLATE & MODEL-BASED)

- PIPES (INBUILT & CUSTOM)

PROJECT STRUCTURE

- COMPONENTS:

  - HOME, COURSE LIST, COURSE DETAILS, ADD COURSE, UPDATE COURSE

- SERVICES:

  - COURSESERVICE FOR API HANDLING

- GUARDS:

  - AUTHGUARD FOR AUTHENTICATION

- PIPES & DIRECTIVES:

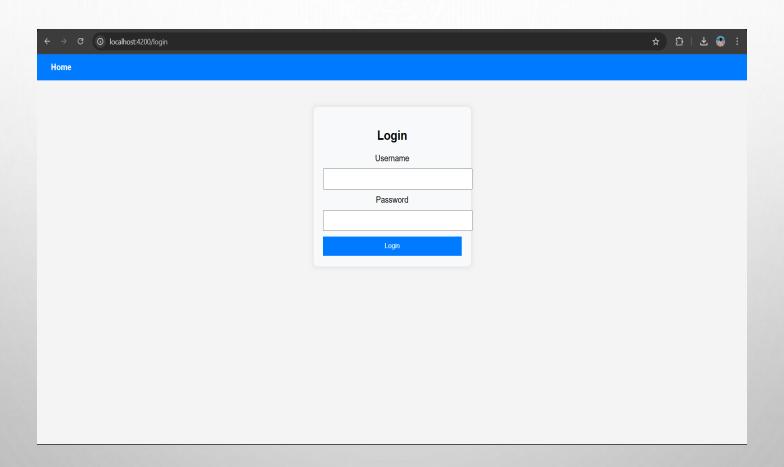 - CUSTOM TITLE FORMATTING PIPE

  - HIGHLIGHT DIRECTIVE

TECHNOLOGIES USED

- ANGULAR

- TYPESCRIPT

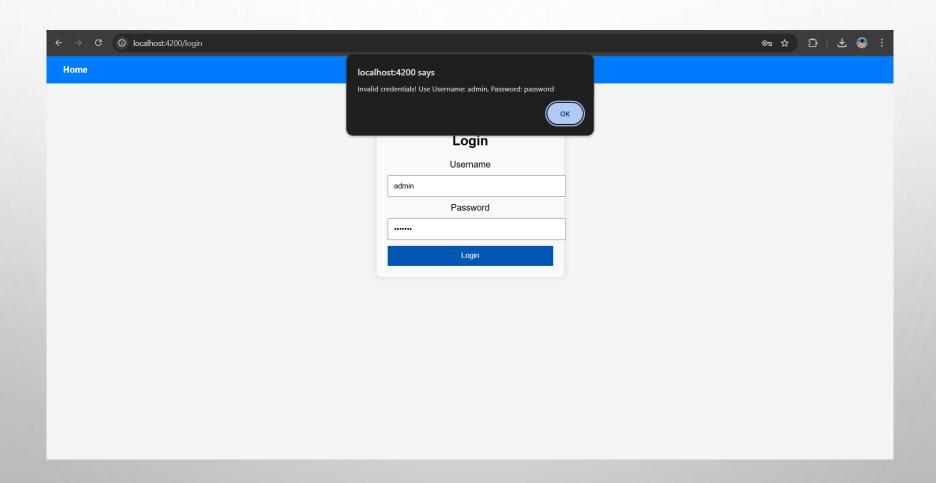- HTML, CSS

- JSON SERVER

- BOOTSTRAP (FOR STYLING)

DEMO & SCREENSHOTS

- HOME PAGE WITH COURSE LIST

- ADDING A NEW COURSE

- EDITING AN EXISTING COURSE

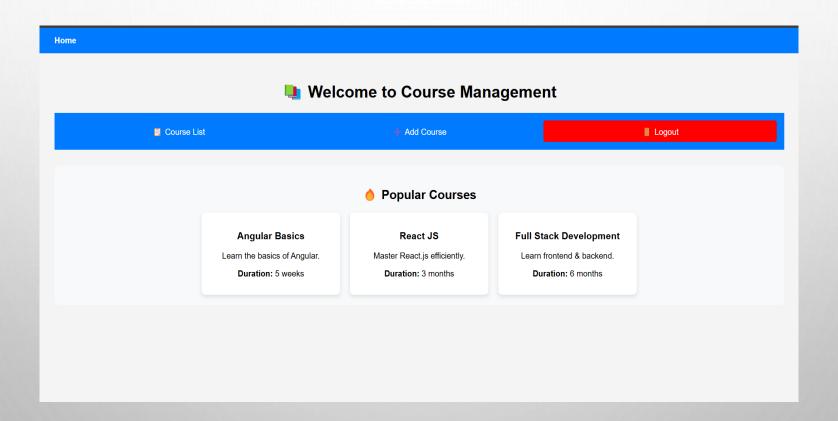- COURSE DETAILS VIEW

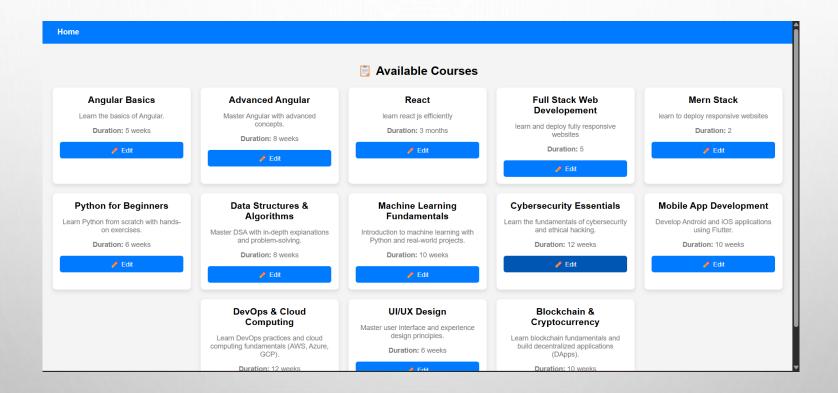- AUTHENTICATION & ROUTE GUARDS

LOGIN SCREEN

LOGIN(WRONG CREDENTIALS)

HOME SCREEN

Home

📚 Welcome to Course Management

📗 Course List   + Add Course   📕 Logout

🔥 Popular Courses

Angular Basics

Learn the basics of Angular.

Duration: 5 weeks

React JS

Master React.js efficiently.

Duration: 3 months

Full Stack Development

Learn frontend & backend.

Duration: 6 months

COURSE LIST PAGE

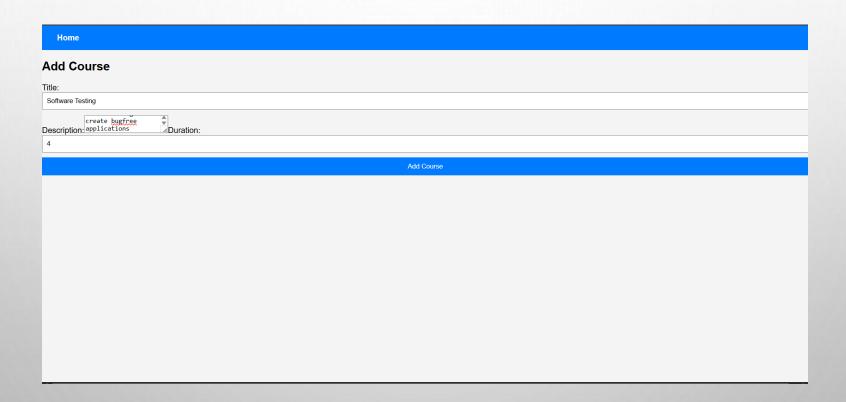Lists courses and its details from api.json(api calls) ,courses added through add course also gets saved there.

ADD COURSE PAGE
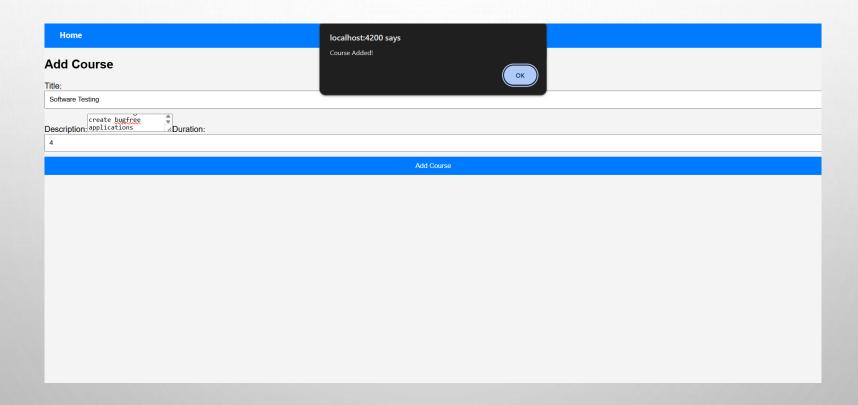
Home

Add Course

Title:

Description: Duration:

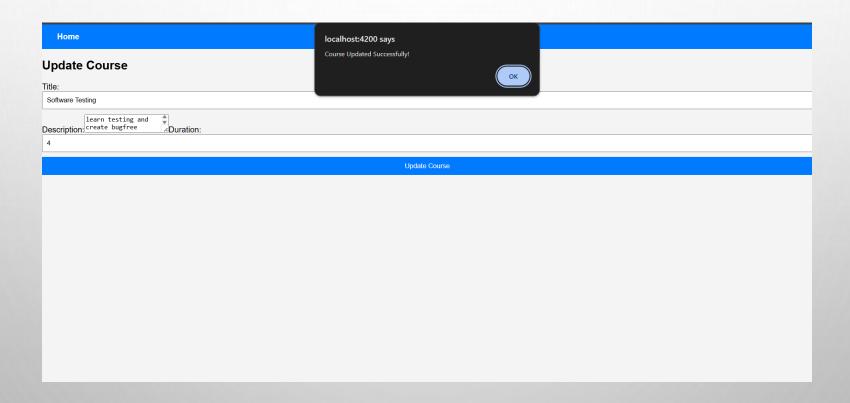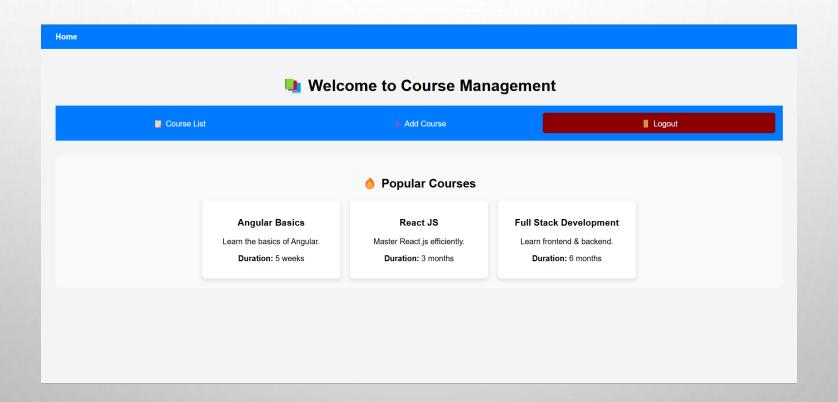Add Course

COURSE DETAILS

COURSE ADDED

Home

Add Course

Title:

Software Testing

create bugfree
applications

Description: Duration:

4

Add Course

localhost:4200 says

Course Added!

OK

UPDATE COURSE PAGE

UPDATION SUCCESSFUL

LOGOUT BUTTON

Home

📚 **Welcome to Course Management**

📋 Course List   ➕ Add Course   🚪 Logout

🔥 **Popular Courses**

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CONCLUSION

• A FULLY FUNCTIONAL ANGULAR SPA COVERING ESSENTIAL CONCEPTS.

• SECURE AUTHENTICATION WITH LOCAL STORAGE.

• JSON SERVER-BASED API INTEGRATION.

• WELL-STRUCTURED COMPONENTS AND SERVICES.

• FUTURE ENHANCEMENTS: ADD ROLE-BASED ACCESS, INTEGRATE A REAL BACKEND.