



# INTRODUCTION

### A web-based quiz application that allows users to:

- Answer quiz questions
- View scores
- Store and retrieve data using a Web API

### **Technologies Used:**

- Angular 5
- TypeScript
- Bootstrap
- Web API (ASP.NET Core)



# APP WORKFLOW

# How does the app work?

- 1. User Login.
- 2. User visits the Quiz Home Page.
- 3. Selects a category and starts the quiz.
- 4. Answers multiple-choice questions.
- 5. Submits responses and views the score.





# ANGULAR CONCEPTS - COMPONENTS & ROUTING

### **Parent-Child Components:**

- - QuizComponent (Parent): Manages the quiz flow.
- - QuestionComponent (Child): Displays individual questions.
- •- Uses @Input() to pass data and @Output() to emit answers.

### **Routing & Parameters:**

- Dynamic Routing (/quiz/:id) for category selection.
- - RouterLink for navigation.
- •- Routing Guard (AuthGuard) for secure access.

# ANGULAR CONCEPTS - DATA HANDLING & FEATURES

### **Local Storage:**

•- Stores user progress and scores.

### **Services & Observables:**

- - QuizService handles API calls.
- - Uses Observables (subscribe()) for data fetching.

### **API Calls:**

•- Fetches quiz questions from Web API using HttpClient.

### Form Handling:

•- Reactive Forms for user input validation.

# Thank You