Developer Assessment Projects

CureMD Software Engineering Assessment  
  
You have been assigned a short 2-day project to evaluate your skills. Please carefully read the assignment brief, scope, and expectations. The goal is not only to finish features but also to demonstrate clean code, problem-solving, attention to detail, and communication.

# Project 1: Trivia Quiz Application

## Objective

Build a trivia quiz application using Angular and .NET. The application should fetch questions from the Open Trivia Database API, allow a user to take a timed quiz, calculate results, and save past attempts.

## Requirements

* - Start Screen: User selects category, difficulty, number of questions.
* - Quiz Flow: Fetch questions via API, one question per screen, multiple-choice with shuffled answers, timers for per-question and overall quiz.
* - Results: Show score, accuracy, total time, correct/incorrect answers.
* - Persistence: Save quiz attempts in backend DB (SQL). Provide endpoint to fetch past 10 attempts.
* - Quality: Loading/empty/error states, mobile responsive, accessible design.
* - Docs: README with setup instructions and assumptions made.

## Stretch Goals (Optional)

* - Pause/Resume quiz with limited pauses.
* - Admin view to list attempts with filters.

## Evaluation Criteria

* - Adaptability & Learning
* - Technical Ability
* - Precision & Attention to Detail
* - Strive for Perfection
* - Problem Solving
* - Communication
* - Testing
* - Delivery & Setup

# Project 2: News Portal Application

## Objective

Build a news portal using Angular and .NET that integrates with the Newscatcher API to display, search, filter, and save news articles. The portal should support login sessions and a polished, responsive UI.

## Requirements

* - Login: Hardcoded users in DB, sessions maintained.
* - News Highlights: Display top news headlines.
* - Search: Search bar with history of last 5–10 searches.
* - Article View: Full news content when a headline is clicked.
* - Save Article: Persist saved articles to DB, view later under 'Saved'.
* - Responsive: Works well across devices.
* - Docs: README with setup instructions, assumptions, and trade-offs.

## Stretch Goals (Optional)

* - Filters: Filter by topic and country.
* - Tagging saved articles by category.
* - Recommended news based on saved category.

## Evaluation Criteria

* - Adaptability & Learning (API integration, docs usage)
* - Technical Ability (Angular patterns, backend persistence, session handling)
* - Precision & Attention to Detail (filters, search history, login)
* - Strive for Perfection (UX polish, responsiveness)
* - Problem Solving (edge cases, API errors, empty results)
* - Communication (clear assumptions, README quality)
* - Testing (unit tests for search/service, backend controllers)
* - Delivery & Setup (runs with minimal setup)