Dev.Build Final Project Parameters

Backend: C# API

Your project must include a backend API your group creates that includes:

- At least 4 database tables
- At least 1 join in a query
- A Data Access Layer injected into the API Controllers
- Dapper for database ORM
 - Stored Procedures for some/most of the database work
- At least three API endpoints
- A mixture of HTTP methods including at least one example of Get, Post, Put/Patch, and Delete

Front-End: Angular & CSS

- At least 6 components
- Angular routing between components
- At least two services
- Uses your API
- Consistent, attractive styling beyond the default C# Angular project template
 - Use of Bootstrap or Spark optional

Steps to Take Beyond MVP:

- Improve your API error handling--return more information in the response and/or HTTP error codes
- Further error handling in Angular--if you get an error from an API, don't just send it to the console, display information to the user
- Refactor your code--cleaner, more documented, more modular
- Improve your CSS--really make the site pop. Dig into CSS animations.
- If it makes sense with your project, incorporate a third-party API

Note: Please notify me on any *major* changes from your initial pitch

Fallback Project

I strongly encourage every group to develop a unique project that meets the above requirements, this serves as a fallback for any group that cannot come up with something.

- Select a specific user from a drop-down. An individual user has one of three levels of access:
- Regular users can:
 - View a list of courses
 - Enroll or unenroll from a course
 - o Enter a course they're enrolled in and see modules, assignments, and resources
- Admin users can:
 - Create a course
 - Assign a teacher to a course
 - o Create a new user
 - Assign teacher or admin rights to a user
- Teachers can:
 - Add modules to a course
 - Add assignments to modules
 - Add resources to modules
 - o Rearrange the order of materials within modules and between modules
 - o Remove students from their courses

Ideas for stretch goals:

- Teachers can create quizzes in their courses, and regular users can take them.
 (Sequence of multiple choice questions?)
- Teachers can create slideshows in their courses and regular users can navigate through them
- Teachers can post YouTube videos in their courses
- Incorporate your own ideas