# Object-Oriented-Design Final Project – Arin Zargarian

### Url: [http://ec2-54-153-107-207.us-west-1.compute.amazonaws.com](http://ec2-54-153-107-207.us-west-1.compute.amazonaws.com/)

### Website Functionality

1. User can create an account with register button. Authentication occurs with Microsoft Identity jwt tokens.
2. Each authenticated user can create Quizzes an add, edit or questions or quizzes that that specific user created. User id is foreign key in quiz table and in question table quiz id is the foreign key. (Both are one to many relations).
3. When playing quizzes, the user can see all the quizzes.
4. After answering questions by clicking the finish button, the quiz score displays.
5. Answers the questions are shuffled randomly.

### Technologies used

1. MySQL (Workbench)
2. AWS for hosting.
3. AWS beanstalk for automated deployment. Switched to IIS after encountering problems.
4. Angular cli
5. ASP.net core
6. Bootstrap
7. Postman for in development testing.

### Concepts being used

1. Model View Controller architecture
2. Object Relational Mapping
3. Dependency Injection
4. Authentication (JWT token)
5. Identity Management
6. Single Page Application (SPA)
7. ORM implementation of classes with Entity framework
8. End to end testing with Postman

**Note for installing on local machine on Visual Studio**Application runs with all features on localhost:4200 and localhost:44355/api for front and backends.