INFO-4844: Project

Fairleigh Dickinson University Vancouver
Fall 2020

Assigned: Wednesday October 28, 2020
Due: 1:30 pm PST, Wednesday December 9, 2020

1   Goal

The goal of this project is to build a fully functional website using C# and ASP.Net Core. The work will be done by groups of up to 3 students. Individual submissions, and groups of 2 students, are also acceptable; however, groups of 4 or more students will be disqualified.

Imagine that you and a few of your friends are planning to launch a startup company. You need to build a fully functional website for this company. Feel free to select from a broad range of areas such as e-commerce, tourism, content streaming (video/audio), electronic library, information storage and retrieval, blogs, project management tools (e.g., Agile/Kanban etc.). It is recommended that you select a topic that is most relevant to area(s) you would be interested in working on professionally.

The project will have 100 required points required and 20 optional points of extra credit.

2   Required Features (100 points)

1. The project must be written in C# and ASP.Net Core.

2. It must be locally compiled only using "dotnet build" and should be runnable on localhost using "dotnet run".

3. Features must include entry, update and deletion of information; all entries, updates and deletions must be reflected in an underlying database management system using EntityFramework. For storage, SQLite is sufficient for required credit; more powerful databases will qualify for extra credit.

4. It must be deployed to the cloud using **Microsoft Azure free student account (i.e., the type of account that does not require credit card information).** If you have difficulty deploying to Azure, other cloud platforms are acceptable **as long as it is free, i.e., there is no charge.**

5. The source code must reside in a **private git repository** on BitBucket. The private repository must be accessible only to the team members and your Instructor. **Deployment must be set up from the git respository on BitBucket to the cloud.**

3   Extra Credit (Total: 20 points)

Use a more powerful but free database management system such as Microsoft SQL Server Express Edition, MySQL, etc.

4   Deliverables and Deadlines

1. **Wednesday November 4** Each student must submit team name, team members, company name, and goal of the company and website to Webcampus.

2. **Wednesday November 18** Create private git respository on BitBucket and share it with your Instructor. Set up cloud deployment from the git repository. This needs to be completed even if the repository is empty. Instructor's Bitbucket username is souravfdu and email is sourav@fdu.edu BitBucket.

3. **Wednesday December 2** Get Models, Views, and Controllers up and running. The Data layer does not have to be implemented by this date. It is fine if the Service layer returns dummy data at this stage.

4. **Wednesday December 9** Final version of code is due **by 1:30 pm PST** .

NOTE: On the day of the final exam, each team must do a virtual presentation, which will be graded separately.

5   Rules

Please adhere to the following rules strictly; violating them will automatically disqualify the project and result in a zero grade.

1. Work (documents, code, ideas etc.) cannot be shared with any person or entity outside the team.

2. Git repository cannot be public, and cannot be accessible to anyone except team members and the Instructor.

3. Do not use any autogenerated code (a.k.a. "boilerplate code") except what's generated when you run "dotnet new ... ".

4. The website must not accept, store, process, or display any payment information or confidential information. The website must not attempt to accept or transfer funds of any kind.

5. The website must not accept, store, process, or display any copyrighted information.