This is a Collaborative Learning Community (CLC) assignment.

**Objective**

1. Demonstrate basic knowledge for how to build an N-Layer web application using Controllers, Models, Business Services, and Data Access Services.
2. Demonstrate basic knowledge for how to use AJAX to build responsive and dynamic Views in .NET MVC using Visual Studio.
3. Demonstrate basic knowledge for how to use Partial Views and Partial Page Updates in .NET MVC using Visual Studio.
4. Demonstrate basic knowledge for how to design and build a REST based service using Windows Communication Foundation.
5. Continue gaining experience using Agile Scrum practices.

**Activity**

1. Cleanup any code from prior topics code reviews and instructor feedback .
2. Leverage IoC dependency injection (one example would be to inject a Logger Service into at least one Controller).
3. Leverage HTTP Request filter (one example would be to perform page security).
4. Hold peer code reviews for all code that was developed.
5. Hold Agile Daily Scrum meetings on a frequent and planned schedule (ideally a daily frequency).
6. Hold an Agile Scrum Retrospective at the end of this Sprint (and document your results in the Design Report or Mind Mapping Tool).
7. Complete the final project presentation.

**Build**

1. Refactor code.
2. Ensure code is cleanly formatted and commented.
3. Incorporate IoC.
4. Add HTTP Request Filter.
5. Refactor code as identified during peer code reviews and instructor feedback (or place refactor work as future tasks in Scrum Back log).
6. Maintain all code across the team by checking code and syncing code daily into the GIT Repository.

**Deliverables**

1. Final fully functional responsive .NET Minesweeper Application (Login, Registration, and Game Board).
2. Final Sprint Product Log
3. Final Sprint Back Log
4. Final Sprint Burn Down Chart
5. Results of Scrum Retrospective (in the Design Report)
6. Final Design Report (with ER diagram, Class diagrams, Flow Charts, etc.).
7. All code artifacts and design artifacts (with GIT URL's to the above planning artifacts) checked into the GIT Repository.
8. Final Project Presentation. Refer to the “CST-247 Milestone Project Overview & Requirements,” located in the course materials for complete instructions.

**What to Submit:**

1. All planning and design artifacts updated in a GIT Repository, and in a folder called Planning and Design.
2. All code artifacts checked into a GIT Repository, and in a folder called Application.
3. All planning artifacts, design report, presentation, and code zipped into a single file and uploaded to LoudCloud.

GCU style is not required, but solid academic writing is expected.

This assignment uses a scoring guide, provided by the instructor. Please review the rubric prior to beginning the assignment to become familiar with the expectations for successful completion.

You are not required to submit this assignment to LopesWrite.