Enterprise Applications Term Project

The Enterprise Applications term project is a team project building a specified web application using Java web technologies using an MVC architecture for the web client user interface and an N-Tier backend using object oriented programming using SOLID design principles implemented using the Factory Design Pattern. The application will persist data within a MySQL relational database. All database access will be accomplished using stored procedures. The project will contain no embedded SQL within Java source code. All project artifacts (documentation) and source code will be managed using GitHub private repositories. The project will be run using Agile Scrum project management methodology. The project will use the Altassian’s software Jira for issues and task management in the Agile Scrum environment. The project owner (instructor) will groom the back log (prioritize) the features to be delivered for each sprint (A sprint is the Agile Scrum iteration). Sprints are two weeks in duration.

Teams are responsible for balancing the workload equally across all members. This must be reflected within Jira with clear indications on each team member’s responsibilities. Both members must participate equally in tasks such as UI design and implementation, back end tiered architecture code base and database DDL and DML code. You are evaluated on the design, implementation and ability to clear sprint back logs and the accuracy of the features produced. Below is a high level breakdown of evaluation. Each student is evaluated separately on each section:

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| Item | Description | % Grade |
| Source | The source code conforms to the chosen architecture and implements the specified design patterns. The source code accuracy in producing the features as specified in the user stories. All classes and methods are fully commented. Source code includes are Java, JavaScript, HTML, CSS along with database code. All database code must be included and versioned within the project source code repository. It must include and DDL and DML. There must be a DDL script to allow the database and objects within to be generated in any instance of MySQL. | 40 |
| Artifacts | Project design documents. May included but not limited to ERD, UML | 10 |
| Sprint Delivery | Daily stand up recordings with teammates, user story tasks break down accuracy | 10 |
| UI Design | User Experience is clean, responsive design and delivers the features to the user as specified | 20 |
| SCM | Use of GitHub | 5 |
| Video Walkthrough Demo | Produce a video walkthrough of the functioning application | 15 |