Fall 2022 CEG-4110-10 CEG-6110-10

Introduction to Software Engineering

Software Development Plan (Agile)

Project Title: Simple Library System

Project Synopsis: This simple library systerm is featured with capabilities to store books data in Mysql database. The user interfaces in this project allow users to manipulate data which including adding,deleteing,modifiction.

Concept of Operation (CONOPS):

Store data & Retrive data

Schedule:

* Project start date: Sep 16.
* Define sprint durations: Sep 16 to Nov.25
* Project end date: Nov.25

Software Development Environment

* Hardware: Intel Core i5,16 GB RAM.
* Datatbase environment: 100 M storage space. Mysql 5.7.
* Operating System: Windows 10
* Compiler/Linker Tools: Eclipse IDE for Enterprise Java and Web Developers - 2022-06

Configuration Management

* Install Eclipse Enterprise 2022-06
* Install Windows Builder Plugin
* Configure Project library jdk-18.0.2
* Incorporate "mysql-connector-java-8.0.30.jar" to project

4. Target Environment

* Hardware: Same as the sofeware development environment
* Operating System: Same as the sofeware development environment

Development Methodology:

* Agile

Identify Roles:

* Product Owner: Caihong
* Team members: Skyler, Joshua
* Scrum Master: Caihong

Identify The Product Backlog

* Requirements of what is to be implemented

Identify Initial Sprint Backlog

* Identify what is to be implemented first, second, third, etc.

Sprint Execution:

Sprint Planning:

Inputs:

* Product backlog
* Sprint backlog
* Any required technical Information (interface definitions, etc.)

Team Activity:

* Product Owner – Updates product backlog to contain updated requirements.
* Scrum Master – Works with the team and product owner to define the new sprint backlog.
* Development Team – Provides feedback on task efforts and sprint backlog.
* All members define what “Done” is.

Outputs:

* Refined product backlog
* Updated sprint backlog

Daily Scrum:

Inputs:

* Sprint backlog

Team Activity:

* Scrum master – polls the team as to the status
* Development Team – provides status on progress and other needs

Outputs:

* Updated sprint backlog
* Meeting minutes (Date, Time, Attendees, at a minimum

Sprint Review:

Inputs:

* Sprint backlog

Team Activity:

* Sprint Review
* Stakeholders updated with latest status

Outputs:

* Delivered new software capability (Increment)