

BIT302 - Assignment 2

Release date:	Week 1
Due date:	Week 9
Output:	Design and Testing Document Prototype 1
Value:	15%
Late Penalty:	5 marks per working day

Expected Learning Outcomes Assessed

- CLO1: apply software engineering principles and tools available to the software developer, such as software process methodologies, choice of algorithm, language, software libraries and user interface technique for developing a prototype
 - CLO2: explain the concepts in software quality assurance and to test the prototype
 - CLO3: perform planning and project management tasks for a prototype
 - CLO4: communicate orally in groups and in writing technical documentation throughout the various stages of project development
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Rationale

This task was designed to give students the opportunity to design and develop the requirements for the project in Assignment 1. Task 1 which is to compile the design specification is a team effort. Task 2 which is coding and testing is to be done individually.

Task 1: Design Specification (Group)

Write a design specification document from the requirements documents you just created in Assignment 1.

Task 2: Coding and Testing (individual)

The second task has been designed to develop students' ability to start on the first iteration. Each student to code and test the use cases identified in Assignment 1.

Task 3: Presentation and Collaboration

At the end of assignment 2, prepare 5-10 minutes presentation of your design and the first iteration. In this task you are also required to show evidence of how you have collaborated (Trello and Github) with your team member.

General Marking criteria and Submission Requirements

- All documentation must be word processed using Times New Roman font size 12 with 1.5 spacing.
- Use APA Referencing.
- Your report should consist of the following:
 1. Submit your Turnitin Report (<http://www.turnitin.com>)
 - Class Name :**STIKOM BIT302 2020**
 - Class ID : **23613881**
 - Enrollment Key : **SE2020**
 2. Assignment Cover Sheet
 3. Design Specification and Testing Document
 4. Marking Scheme

The following criteria will be used to assess this task:

1. Introduction to Design Documentation (Group Work)

- Introduction to Design Documentation
- Use Case Diagram to show the division of work done by individual team member

2. Design specification (Group Work)

- Architectural Design : High level view of the system; it is modelled in terms of major components and the way they are interconnected
 - Design Class Diagram
 - ERD
 - Site Map
 - Generic User Experience/Wireframe etc.
- System design of the system i.e. it would meet all the requirements determined in assignment 1.

- System Sequence Diagram + Contracts of the use cases to be developed for Iteration 1 (updated)
- Database Design (Data Dictionary)

3. Iteration 1 (individual work)

- Identification of the use cases to be developed by member
- Algorithm/Identification of plug-ins (optional)
- Test Objectives
- Test Plan & Method & Automated Testing tool applied (e.g. Selenium)
- Test Results
 - Unit Testing
 - Integration Testing
 - System Testing
- Test Analysis Report
- Updated Gantt Chart/Trello board

4. Presentation

You will be required to present your

- live demonstration of prototype 1
- collaboration via GIT/Trello

5. Peer Presentation Evaluation Form

- Complete the peer presentation evaluation form (using the EXCEL worksheet) and submit via online to <https://lms.help.edu.my/helplearning/course/> on the day of the presentations.