**CSIT314 Software Development Methodologies**

**Lab Test – Assessment (10 marks)**

**Duration: 1 hour**

Submit a softcopy of your work to the correct submission site on Moodle. Late submission is NOT accepted.

**Important note: *This lab exercise is expected to be completed* independently*. You must do it on your own. Plagiarism may result in a FAIL grade being recorded***

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**Marking Sheet**

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| **Task** | **Total Marks** | **Awarded Marks** |
| 1. Develop a list of user stories | **2** |  |
| 2. Develop a **use case diagram and use case descriptions** | | |
| * Develop a use case diagram | **2.5** |  |
| * Choose **one major** use case and develop a *detailed* use case description for it | **1** |  |
| 3. Use the b-c-e framework to develop a design |  |  |
| * Draw a class diagram to represent your design | **3** |  |
| * Draw a sequence diagram for the selected use case in Question 2.b | **1.5** |  |
|  | | |
| **Total Marks** | |  |

**My Answer**

Start answer from here -🡪

**1. Develop a list of user case story**

1. As a Homeowner, I want to search and compare renovation service providers so that I can choose the best option for my needs and budget.

2. As a Homeowner, I want to request quotations from multiple renovation contractors so that I can receive and compare detailed offers for my renovation project.

3. As a Homeowner, I want to use an online visual planner to design my renovation layout so that I can better communicate my ideas to contractors.

4. As a Homeowner, I want to view contractor profiles and their completed project portfolios so that I can assess their experience and quality of work.

5. As a Homeowner, I want to schedule an on-site consultation with a contractor so that I can get professional advice and accurate quotations.

6. As a Homeowner, I want to track the progress of my renovation project online so that I can monitor each stage and receive milestone updates.

7. As a Homeowner, I want to release payment to the contractor through an escrow system upon project completion so that my payment is secure until I am satisfied.

8. As a Homeowner, I want to leave a review and rating for my contractor after the project is finished so that I can share my experience with other users.

9. As a Homeowner, I want to digitally sign renovation contracts on the platform so that agreements are formalized securely and efficiently.

10. As a Homeowner, I want to submit warranty claims or request post-project support in case of defects so that I am assured of continued service after renovation.

**2a.Develop a use case diagram**

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| **Use Case Diagram(UML) #HO-01** |
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**2b. Develop a** **use case descriptions**

**User Story**

As a Homeowner, I want to leave a review and rating for my contractor after the project is finished so that I can share my experience with other users.

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| **Use Case Description** | **ID: #** **HO-01** |
| **Name:** Leave Review and Rating for Contractor | |
| **Stakeholders and Goals:** Homeowner – to provide feedback and inform other users about their experience with a contractor. | |
| **Desciption:** The Homeowner leaves a review and rating for a contractor after project completion. These reviews are visible to other homeowners considering the contractor for future projects. | |
| **Actors:** Home Owner | |
| **Trigger:** After the renovation project is completed, the Homeowner can submit a review and rating for the contractor, which will be published on the contractor’s profile for others to view. | |
| **Pre-Condition:** The Homeowner is logged in and has at least one completed project with a contractor. | |
| **Normal Flow:**   1. Homeowner navigates to completed projects. 2. Homeowner selects a contractor to review. 3. Homeowner submits a review and rating. 4. System saves and publishes the review. | |
| **Sub-flows: none** | |
| **Alternative/Exceptional flows:**  **4a. Review Submission Failed:** If the review and rating cannot be submitted (e.g., due to a network error), the system displays an error message. Message: "Review submission failed. Please try again." | |

**3a. Class diagram**

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| **BCE Diagram # HO-01** |
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**3b. Sequence Diagram**

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| **Sequence Diagram # HO-01** |
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