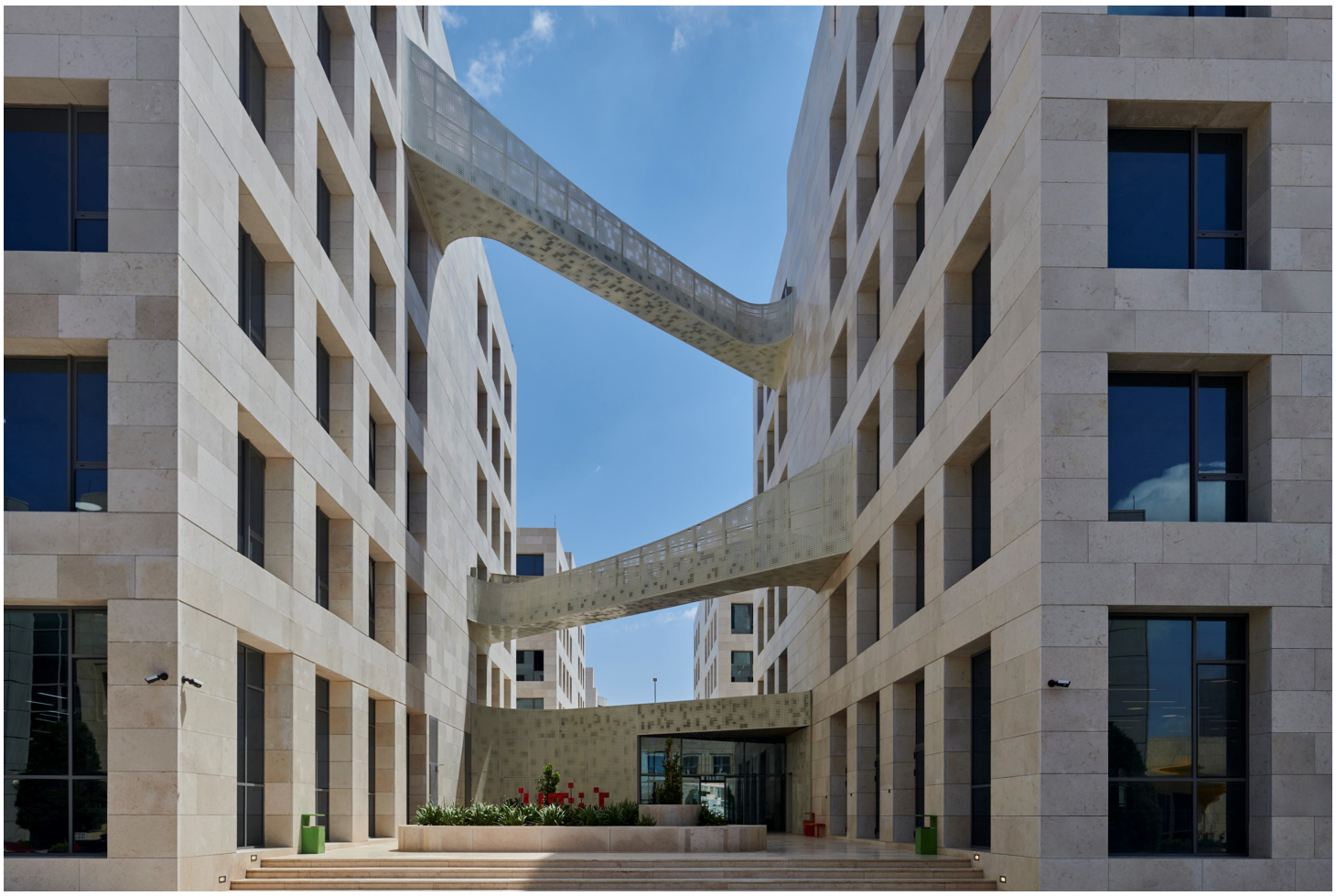
جامعة الحسين التقنية
Al Hussein Technical University

ASSIGNMENT BRIEF

HTU Course No: 30202422	**HTU Course Name:** Systems Analysis & Designs
BTEC Unit No:	**BTEC UNIT Name:**

Version: 3



Student Name/ID Number/Section	
HTU Course Number and Title	30202422 Systems Analysis & Designs
BTEC Unit Number and Title	
Academic Year	2023-2024 Fall
Assignment Author	Balqees Aldabaibeh
Course Tutor	Balqees Aldabaibeh
Assignment Title	Use Analysis and Design Techniques to solve business problem
Assignment Ref No	1
Issue Date	26/11/2023
Formative Assessment dates	From 24/12/2023 to 11/01/2024
Submission Date	01/02/2024
IV Name & Date	Murad Yaghi 25/11/2023

Submission Format

You are expected to submit the following documents:

- System proposal document in part 1
- SRS document in part 3
- System specification document in part 4
- Solution document that answer the rest of questions.
- This document, with your name, and signed declaration form at the end.

All documents must be sent in MS Word file format, uploaded to the university elearning system.

You are required to organize your reports in terms of using headings, list of conetents, list of figures, pages numbers, consistent font type and style (preferred : times new roman, 12). All references must be cited in the text and listed at the end of the report suing Harvard referencing system.

Unit Learning Outcomes

LO1 Evaluate the strengths and weaknesses of the traditional and agile systems analysis methodologies

LO2 Produce a feasibility study for a system to be developed to solve a business-related problem

LO3 Assess systems analysis methodologies to effectively solve business-related problems

LO4 Design the system to meet user and system requirements

Assignment Brief and Guidance

Vocational Scenario:

Customer Relationship Management (CRM) is one of the most popular business-related problems in many sectors such as marketing, healthcare, gaming, finance services, hospitality, telecommunications, education, real estate,….etc. This problem can be tackled using technical solution to support customer.

In this project, you are required to do many tasks related to a specific problem in CRM in any domain of your interest.

This assignment contains 4 parts that will walk you through in the main stages of an SDLC, all your answers should be related to the problem of your choice.

Part 1: Project selection and Planning

In this part, select a problem related to the CRM concept, and conduct the following:

You are required to **conduct** a feasibility study (economic, technical, and legal, schedule, timeline) and **deliver** the system proposal that will be handed to stakeholders and managers. System proposal will highlight your idea, and will contain *project summary, project description, business objectives, solution considered, risks, cost, benefits (tangible and intangible), alternative solutions, recommendation and justification.*

Show how conducting the feasibility study has helped you in preparing the proposal, and **assess** the importance of creating the feasibility study, then **evaluate** it's role in solving the business problem.

Part 2: Define Software Development Methodology

Select one software development methodology from each category (traditional and agile) that you believe best fits your system. **Discuss** their strength and weaknesses, and **compare** the two models with a reference to your business problem. **Critically justify** your answer.

Part 3: Project analysis

Now you are required to effectively assess and analyze the system using different methodologies:

Collect requirements using different tools (Interview, JAD, Questionnaires, Observation, document Analysis), **justify** your choice in the context of the business problem.

Clarify requirements you gathered in the previous step using user stories and use cases.

Generate the SRS document that contains *Introduction* (*purpose, scope, list of abbreviations,..etc) requirements(functional, non-functional, user, system), use case diagram and descriptions, DFD, and ERD.*

In the context of the selected development methodology, **assess** the effectiveness of the analysis and the SRS document.

Part 4: Project Design

At this point, the requirements of the system are clear and specified. Now you are ready to move into the Design stage and add more technical design. You are required to **deliver** a system specification document that will help technical people and developers to ease the implementation process. It will contain, *interface design, program Design (class diagram), Data storage design (Physical ERD), OO Design (UMLS-sequence diagram, activity diagram).*

In the context of the selected development methodology and the business problem, **assess** the effectiveness of the design process and the system specification. **Show** how the design meets with user requirements stated in the previous stage.

Learning Outcomes and Assessment Criteria			
Learning Outcome	**Pass**	**Merit**	**Distinction**
LO1 Evaluate the strengths and weaknesses of the traditional and agile systems analysis methodologies	**P1** Discuss the strengths and weaknesses of the traditional and agile systems analysis methodologies.	**M1** Compare the strengths and weaknesses of the traditional and agile systems analysis methodologies with reference to a specific business-related problem.	**D1** Critically evaluate the strengths and weaknesses of the traditional and agile methodologies and feasibility study in solving a specific business-related problem.
LO2 Produce a feasibility study for a system to be developed to solve a business-related problem	**P2** Produce a system feasibility study for a business-related problem.	**M2** Evaluate the importance of the feasibility criteria on the systems investigation for the business related problem.	
LO3 Assess systems analysis methodologies to effectively solve business-related problems	**P3** Analyze a system using a suitable methodology for a business-related problem.	**M3** Assess the effectiveness of the analysis in the context of the methodology used.	**D2** Justify the choice of the analysis methodology used in the context of the business problem.
LO4 Design the system to meet user and system requirements	**P4** Design a fully functional system to meet user and system requirements for the business-related problem.	**M4** Assess the effectiveness of the system design with particular reference to the methodology used and how the design meets user and system requirements.	

STUDENT ASSESSMENT SUBMISSION AND DECLARATION

When submitting evidence for assessment, each student must sign a declaration confirming that the work is their own

Student name:	**Assessor name:**	
Issue date: 26/11/2023	**Submission date:** 01/02/2024	**Submitted on:**
Programme: Computing		
HTU Course Name: Systems Analysis & Designs **HTU Course Code:** 30202422	**BTEC Course Title:** **BTEC Course Code:**	
Assignment number and title: 1, Use Analysis and Design Techniques to solve business problem		

Plagiarism:

Plagiarism is a particular form of cheating. Plagiarism must be avoided at all costs and students who break the rules, however innocently, may be penalised. It is your responsibility to ensure that you understand **correct referencing practices.** As a university level student, you are expected to use appropriate references throughout and keep carefully detailed notes of all your sources of materials for material you have used in your work, including any material downloaded from the Internet. Please consult the relevant unit lecturer or your course tutor if you need any further advice.

I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice.

Student Name: **Student Signature:**

Date: