Project Report

Deadline: Wednesday 9/11/2022 @ 23:59

**[Total Mark for Project is 14]**

***System Analysis and Design***

***IT353***

Student Details: CRN:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **Name:**  **Name:**  **Name:** | | **ID:**  **ID:**  **ID:** |
|  |  |  |

**Instructions:**

* You must submit two separate copies **(one Word file and one PDF file)** using the Assignment Template on Blackboard via the allocated folder. These files **must not be in compressed format**.
* It is your responsibility to check and make sure that you have uploaded both the correct files.
* Zero mark will be given if you try to bypass the SafeAssign (e.g. misspell words, remove spaces between words, hide characters, use different character sets, convert text into image or languages other than English or any kind of manipulation).
* Email submission will not be accepted.
* You are advised to make your work clear and well-presented. This includes filling your information on the cover page.
* You must use this template, failing which will result in zero mark.
* You MUST show all your work, and text must not be converted into an image, unless specified otherwise by the question.
* Late submission will result in ZERO mark.
* The work should be your own, copying from students or other resources will result in ZERO mark.
* Use **Times New Roman** font for all your answers.

# Project

*Learning Outcome(s):*

**Grading Criteria:**

|  |  |  |
| --- | --- | --- |
| 1 | System service request | 1 |
| 2 | Gantt chart | 1 |
| 3 | System requirements determination (at least 10 requirements) | 1 |
| 4 | Use Case Diagram | 1 |
| 5 | DFD (at least 3 levels) | 2 |
| 6 | Activity Diagram | 1 |
| 7 | E-R diagram (complete and correct entity types, attributes, relationships, and cardinality) | 1 |
| 8 | Class diagram (complete class names, attributes, operations, multiplicity, associations) | 1 |
| 9 | System prototype/sketch | 1 |
| 10 | Presentation | 4 |
| **Total** | | **14** |

**Important Notes:**

*Learning Outcome(s):*

* You need to take screenshots of the diagrams
* The project needs to be **submitted in BB** (as an assignment) by **ONE** of the group members.
* Each group contains 2-4 members.
* Your project must be **original work**. The project will be checked using a **plagiarism tool**. Any matching with an **online project** or **another**/**previous student project** will be given **ZERO**.

**Each student/group must prepare**

1. **IT353\_Project.docx:**
   1. You need to use the same template to prepare group answers.
   2. Prepare a PDF version of this file.
2. **IT353\_Presentation.pptx**
   1. You need to prepare presentation for your project and present it.

**Student will upload:**

1. IT353\_Project.docx
2. IT353\_Project.pdf

**Project Scenario:**

*Learning Outcome(s):*

*CLO 5: Illustrate most common analysis and design techniques in the form of a group project.*

You are the project manager in an IT related organization (e.g.: IT department in a hospital). One of the employees recognized a need for a new information system (e.g.: Manage and transmit a patient's electronic medical record).

Your role is to create an information system to support the business process. The project usually goes through several phases, you are required to Plan and Analyze the project.

**Part one: Planning the project**

You are required to complete the following Tasks:

1. **Prepare the system service request (as in the table below) and clearly describe the system**

|  |  |  |  |
| --- | --- | --- | --- |
| Organization name: ………………………  System Service Request | | | |
| **REQUESTED BY** | ………………………… | **DATE** | ………………… |
| **TYPE OF REQUEST** | ………..……………….. | **URGENCY** | ………………… |
| **PROBLEM STATEMENT**  ……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………… | | | |

1. **Create Gantt chart showing the project’s tasks, duration, predecessors, and Milestones**

**Part Two: Analyzing and designing the project**

Once you are done with choosing your Information system and the planning phase is done. You will move to the analysis part of the project.

*Learning Outcome(s):*

*CLO 3:*

*Recognize different concepts, principles, and software modelling techniques.*

*CLO 5: Illustrate most common analysis and design techniques in the form of a group project.*

You are required to complete the following Tasks:

1. List the functional and nonfunctional **system requirements** and explain the method that has been used to collect them.
2. Draw the following diagrams based on the requirements list that you identified:
3. **Use Case Diagram**
4. **DFD**
5. **Activity Diagram**
6. **E-R Diagram**
7. **Class Diagram**
8. Include a **prototype** or a **sketch** of what the system may look like.