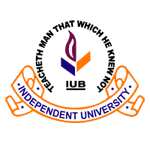
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**Independent University, Bangladesh**

**Department of Computer Science & Engineering**

**CSE 307: System Analysis and Design**

**(Summer 2019)**

**Term Project (100 Points)**

**Due on August 11, 2019**

**Instruction:**

* Submit a printed-copy and a soft-copy.
* Submit printed-copy on the day of presentation.
* To submit the soft-copy,
  + Save the file with the naming convention as

TP\_CSE307Summer2019\_ID\_FIRST NAME\_LAST NAME.doc

* + Submit through Piazza.com under folder project to the Instructor.
  + In summary please follow the convention: Term Project, ID, First Name Last Name

Task: Create Software analysis and design document for a system of your choice.

Software analysis and design document must contain following sections:

Section 1:

1. Introduction
2. History leading to project request
3. Identify Problem, opportunity
4. Project goal and objectives

Section 2:

1. Product Description
2. System Context diagram
3. Hardware detail (Include Rich Picture)
4. Key Technical Features of Software

Section 3:

1. Information Gathering methods (At least three methods)
2. Major functionalities offered by the system
3. Use Case Diagram
4. Normal Scenarios (At least 2)
5. Alternate Scenarios (At least 2)
6. Functional Requirements
7. Non-Functional Requirements (At least 5)

Section 4:

1. Entity Relationship Diagram
2. Logical Data Flow diagram
3. Physical Data Flow diagram
4. Activity diagrams
5. Sequence diagrams
6. Communication diagrams
7. Class diagrams
8. State-chart diagrams.
9. CRUD matrix

Section 5:

1. Structure English pseudo code for the system
2. Normalized Rational Database Tables
3. Prototype the user interface