

B.Sc. in Computer Science and Engineering School of Science and Technology Bangladesh Open University

CSE22P5 Information System Analysis and Design Lab

Lab Report - VI

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Course Code: CSE22P5

Course Title: Information System

Analysis and Design Lab

Submitted To:

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Experiment No: VI.

Date: 29 Mar 24.

<u>Title</u>: Design a Use Case Diagram for ATM System.

Context: No of Actor: 2 (1. Customer and 2. ATM Technician)

Use Case of Customer:

- 1. Check Balance
- 2. Deposit Funds
- 3. Withdraw Cash
- 4. Transfer Funds

Use Case of Technician:

- 1. Maintenance
- 2. Repair.

Objective:

- Identify and define actors in the ATM System.
- Outline distinct functionalities of each actor.
- Visualize these functionalities depicting actor-use case relationships.
- Provide a clear representation of ATM System operations.

Theory: The key components we will require for the Use Case Diagram are –

- i. **Use Case Diagram**:- A use case diagram is a visual representation that illustrates how users interact with a system and the various functionalities the system provides.
- ii. **Actor**:- Actors represent the external entities (such as users or systems) that interact with the system being modeled. They are depicted as stick figures or labeled rectangles outside the system boundary.

- iii. **Boundary**:- The system boundary represents the scope of the system being modeled. It separates the system from its external environment and encloses all the use cases.
- iv. **Use Case**:- A use case represents a specific functionality or behavior that the system provides to its actors. It describes a sequence of actions that accomplish a goal for a user. Use cases are depicted as ovals within the system boundary.

Required Tools and Softwares:

- Sketch Pen & Pad (for sketching the model)
- Wondershare EdrawMax (for designing the diagram)
- MS Word (for writing and furnishing)

Execution:

□ Sketching The Model Using Sketch Pen & Pad

- · Understand system requirements.
- · Identify actors.
- · Consider use case and association carefully.
- Design layout on pad allocating space for each component appropriately.
- Arrows and labels to represent information clearly.
- Carry out refinements before implementation in software.

□ Drawing the diagram using Wondershare EdrawMax

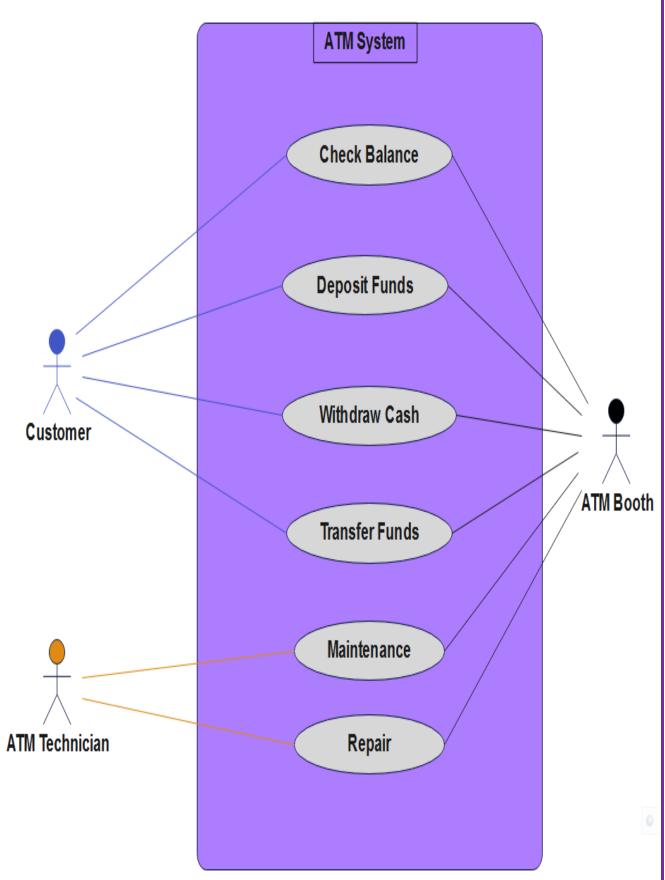
- Launch Wondershare EdrawMax and create a new Use Case Drawing.
- Use symbols and connectors to represent all functionalities.
- Arrange sections logically and add labels & texts for clarity.
- Review and revise as needed.

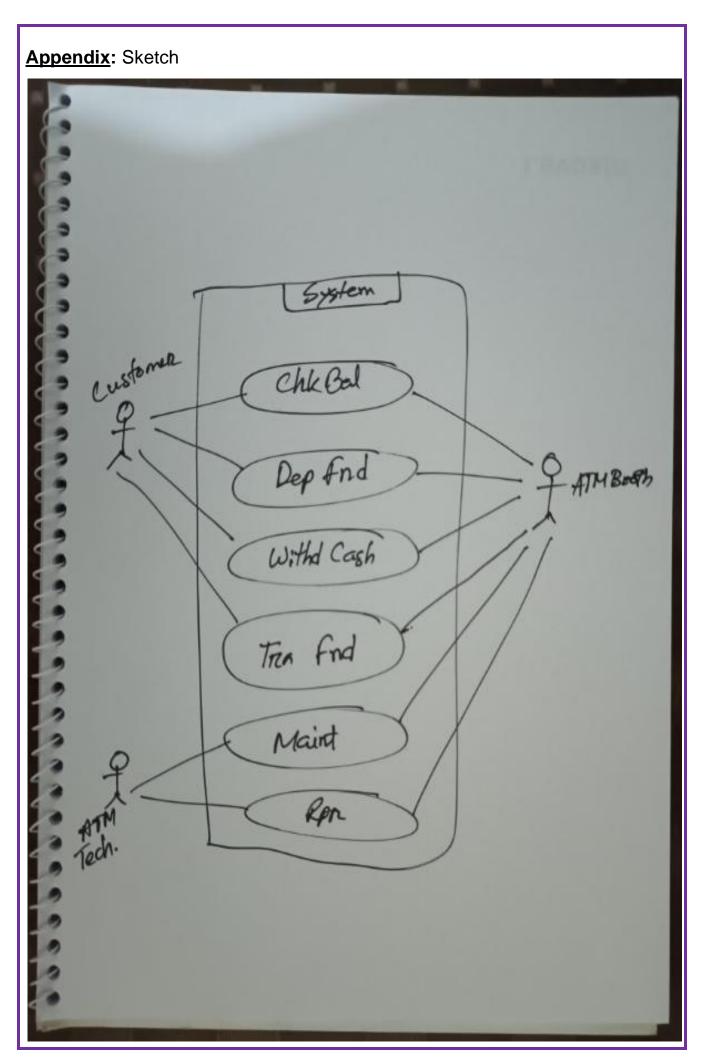
□ Formatting the Report using MS Word

- Open MS Word and create a new document.
- Set up layout and formatting preferences.
- Type content for each section.
- Organize content with appropriate headings and subheadings.

- Insert the use case diagram from Wondershare EdrawMax.
- Review the entire document for coherence and professionalism.

Output:





References:

- <u>Book</u>
 Schmuller, Joseph, *SAMS Teach Yourself UML in 24 Hours* (3rd ed.),
 SAMS
- URL
 - Edraw Max User Manual Professional and All-in-one
 Diagramming Software
 https://www.edrawsoft.com/guide/edraw-max-user-manual en.pdf
 - Edraw Max User Guide
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