**MIS 6308 - SYSTEM ANALYSIS AND PROJECTMANAGEMENT**

**An idea proposed by**

**Shreenidhi Sriram**

**STUDENT ASSISTANT SYSTEM   
(**[**Project Use Case and Process Models**](https://elearning.utdallas.edu/webapps/assignment/uploadAssignment?content_id=_5930970_1&course_id=_269882_1&group_id=&mode=view)**)**

**CONTEXT DESCRIPTION**

Context Diagram represents the interactions of outside entities with a system. It is composed of 3 elements.

* System (Student Assistant)
* Entities outside the system (University, Students, Personal calendar, Grade estimator, Handshake)
* Their interactions with the system (specified below every entity)

**CONTEXT DIAGRAM**

Diagram

Description automatically generated

**PROCESS MODEL DESCRIPTION**

The Process Model represents the workflow and its related sub-processes. It shows details of decisions, timing, and resources. A business process model representation is useful to

clearly understand any process step by step. The Process Model representation of a single interaction (booking) is shown below.

Usage: It is helpful in ensuring that processes are visualized properly, can understand procedures accurately, and can work in an efficient way.

**PROCESS MODEL DIAGRAM**

Diagram

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**SWIMLANE DIAGRAM**

A picture containing graphical user interface

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**USE CASE DESCRIPTION**

Use Case Diagram - A [UML](https://en.wikipedia.org/wiki/Unified_Modeling_Language) use case diagram is the primary form of system/software requirements for a new software program underdeveloped. Use cases specify the expected behavior (what), and not the exact method of making it happen (how). It is an effective technique for communicating system behavior in the user's terms by specifying all externally visible system behavior.

What does the use case diagram consist of?

Actors: The users that interact with a system (Student)

Functions: The services or the functions the system performs. (Activities from login to alert system)

System: Student assistant system

The actors in this diagram are:

1. Guest user: A new user who uses the services as a guest
2. Logged-in user: User with an existing account with the system and has recurring services

Functions:

1. Sign up
2. Log in
3. Documents uploaded in PDF, CSV, XLS, and doc format
4. Getting dates from the calendar
5. Notification settings
6. Notifying the user through emails and text messages

Usage:

They are helpful in giving notifications to the user, which prevents the student from forgetting critical deadlines.

# Use Case Description:

# Use case Name: Student Assistant System Priority: High

# Primary owner: Student

# Application: Manages the set of activities between the user and the responses from the function

**Brief Description**: The use case describes how a student logs in, upload the documents, and receives the notification promptly.

**Trigger:**

1. **External -** Student trying to log in / sign up to upload the docs.
2. **Internal –** Based on the event timeline the alert is triggered

**Normal Flow of events:**

1. The student opens the homepage of the application and made a click on the sign-in / log-in button
2. If a student is new – A new student flow will be executed, for an old student, the login window opens
3. The student provides a valid username and password and hit the login button
4. The student uploads the documents in the application
5. Student setting the time, and days from the notifications setting tab
6. The system stores the information entered by the student and validates the timeline.
7. The student is then notified in the form of an email or text message.
8. The student will then log out of the system.

Sub flows:

Flow 1:

For a new student:

1. User opens the application
2. Click on Sign up
3. Enter the student information
4. Click create.

**USE CASE DIAGRAM**

Diagram

Description automatically generated