\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Experiment no:-10\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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**AIM:-**

**To develop web/desktop application for the stated case study and prepare documentation for the same.**

**Problem Statement:-**

**Online Examination Registration System Application, Create a complete suite of UML models that include**

**-- Use Case Diagrams (with detailed functionality description)**

**-- Class Diagram(s)**

**-- Sequence Diagram(s)**

**-- State-chart Diagrams**

**-- Activity Diagram**

**-- Component-Deployment Diagram**

**Class Diagram**

Class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing, and documenting different aspects of a system but also for constructing executable code of the software application.

The purpose of the class diagram can be summarized as −

* Analysis and design of the static view of an application.
* Describe responsibilities of a system.
* Base for component and deployment diagrams.

Class Diagram: **Online Examination Registration**

**Classes use:**

* **Test**
* **Test\_Question**
* **Online\_Exam\_System**
* **Student**
* **Administrator**

**Examiner**

**Activities Diagram**An activity partition or a swimlane is a high-level grouping of a set of related actions. A single partition can refer to many things, such as classes, use cases, components, or interfaces. It is a behavior that is divided into one or more actions. Activities are a network of nodes connected by edges. There can be action nodes, control nodes, or object nodes. Action nodes represent some action. Control nodes represent the control flow of an activity. Object nodes are used to describe objects used inside an activity. Edges are used to show a path or a flow of execution. Activities start at an initial node and terminate at a final node.

**Justification**

**Authentication**

Authentication, the system will check into database and ask user to either login or register. User may be customer or staff.

**Customer**

Customer have an option to check for status or check for bill information. After calculation of distance and item weight.

**Operating\_Staff**

It will manages item to be dispatch , Bill\_information , Item is valid or not. Then it also update the status of user .Next task is to send details to deliver staff where to send product.

**Delivery\_Staff**

By considering the distance, time to deliver item the cost will be calculated and return to Dispatcher\_Staff , Dispatcher\_Staff return bill\_information and update status.

**Conclusion** : Hence learn about activity diagram and state chart diagram.