

Experiment No: 9  
Title: Implementation of Class Diagram  
Expense Manager Application

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**What is Class Diagram?**

- Class diagram describes the attributes and operations of a class and also the constraints

imposed on the system. The class diagrams are widely used in the modelling of object-

oriented systems because they are the only UML diagrams, which can be mapped directly with object-oriented languages.

- Class diagram shows a collection of classes, interfaces, associations, collaborations,

and constraints. It is also known as a structural diagram.

Purpose of class diagrams:

- The purpose of class diagram is to model the static view of an application. Class diagrams are the only diagrams which can be directly mapped with object-oriented

languages and thus widely used at the time of construction.

- UML diagrams like activity diagram, sequence diagram can only give the sequence

flow of the application, however class diagram is a bit different. It is the most popular

**UML diagram in the coder community.**

- The purpose of the class diagram can be summarized as –
  - i. Analysis and design of the static view of an application.

- ii. Describe responsibilities of a system.
- iii. Base for component and deployment diagrams.
- iv. Forward and reverse engineering.
- v. Shows static structure of classifiers in a system
- vi. Diagram provides a basic notation for other structure diagrams prescribed by UML
- vii. Helpful for developers and other team members too
- viii. Business Analysts can use class diagrams to model systems from a business perspective

### ***Class diagram for expense manager application***

