Experiment no- 06

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Draw Package Diagram.

A package diagram is a type of structural diagram that shows how the different packages in a system are organized and how they depend on one another.

A package is a container for organizing model elements such as classes, interfaces, components, and other packages. Package diagrams provide a way to visualize the organization of a large system by showing the hierarchy of packages and their relationships.

A package diagram consists of packages, which are represented as rectangles with a name and a list of contained elements. The dependencies between packages are represented as arrows pointing from the dependent package to the independent package. The arrows can indicate different types of relationships such as "uses," "includes," "extends," and "generalizes."

Package diagrams are useful for showing the overall structure of a system and for communicating the organization of the system to stakeholders. They are often used in software development to help manage large code bases and to improve the overall architecture of a system.

What is package?

- A package is a grouping of model elements which means that a package can contain model elements of different kinds, including other packages to create hierarchies. A package defines a namespace for its contents using for various purposes.

- Package diagram is used to simplify complex class diagrams, you can group classes into packages. A package is a collection of logically related UML elements.

The diagram below is a business model in which the classes are grouped into packages:

- Packages appear as rectangles with small tabs at the top.
- The package name is on the tab or inside the rectangle.
- The dotted arrows are dependencies.
- One package depends on another if changes in the other could possibly force changes in the first.

Key elements of package:

Construct	Description	Syntax
Package	A grouping of model elements.	Name
Import	A dependency indicating that the public contents of the target package are added to the namespace of the source package.	«import» - - - - ->
Access	A dependency indicating that the public contents of the target package are available in the namespace of the source package.	«access» - - - - ->

Below is thepackage diagram for YouTube.