

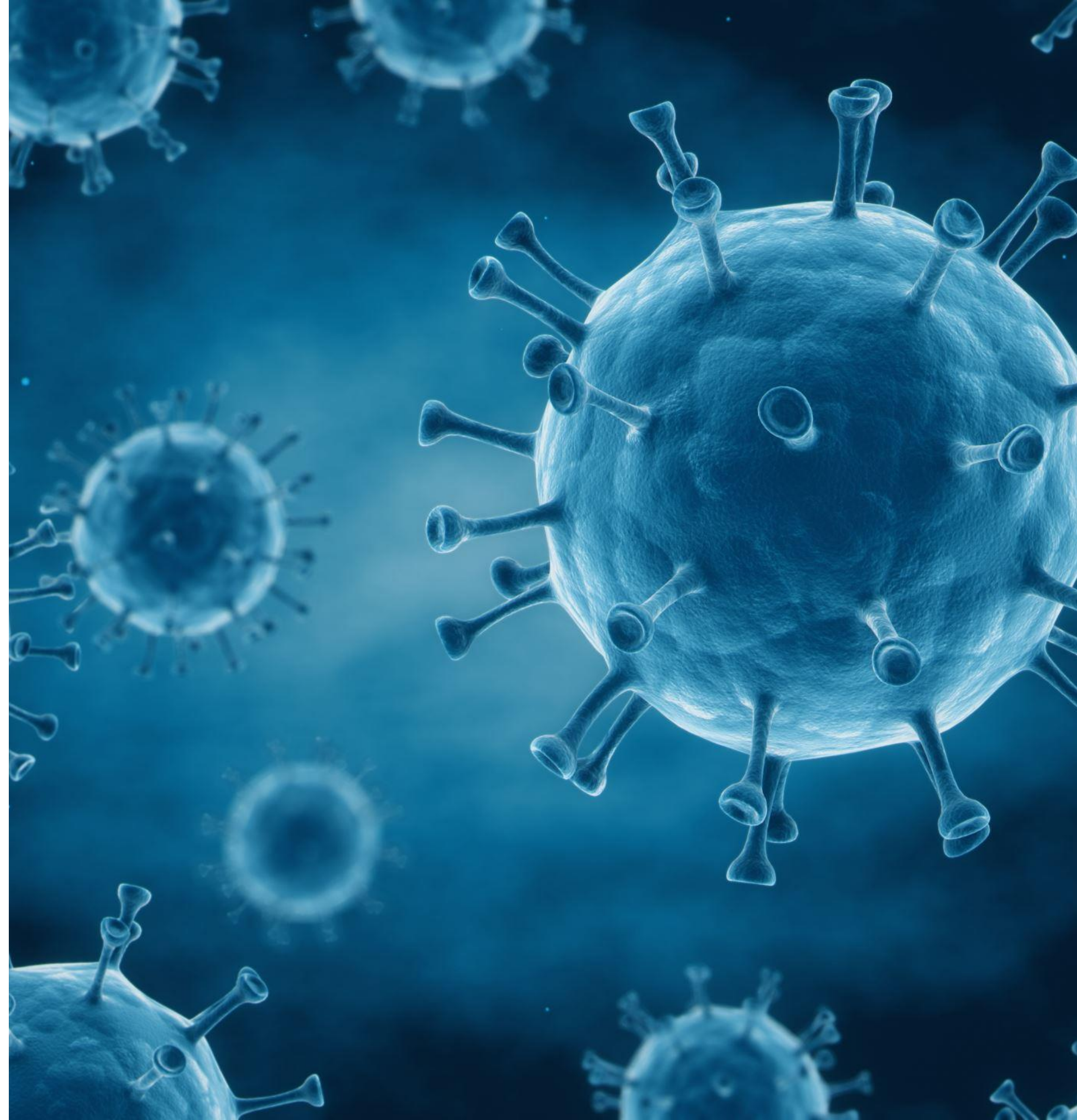
Demonstration of types of COVID-19 virus and its mechanism

Team 18

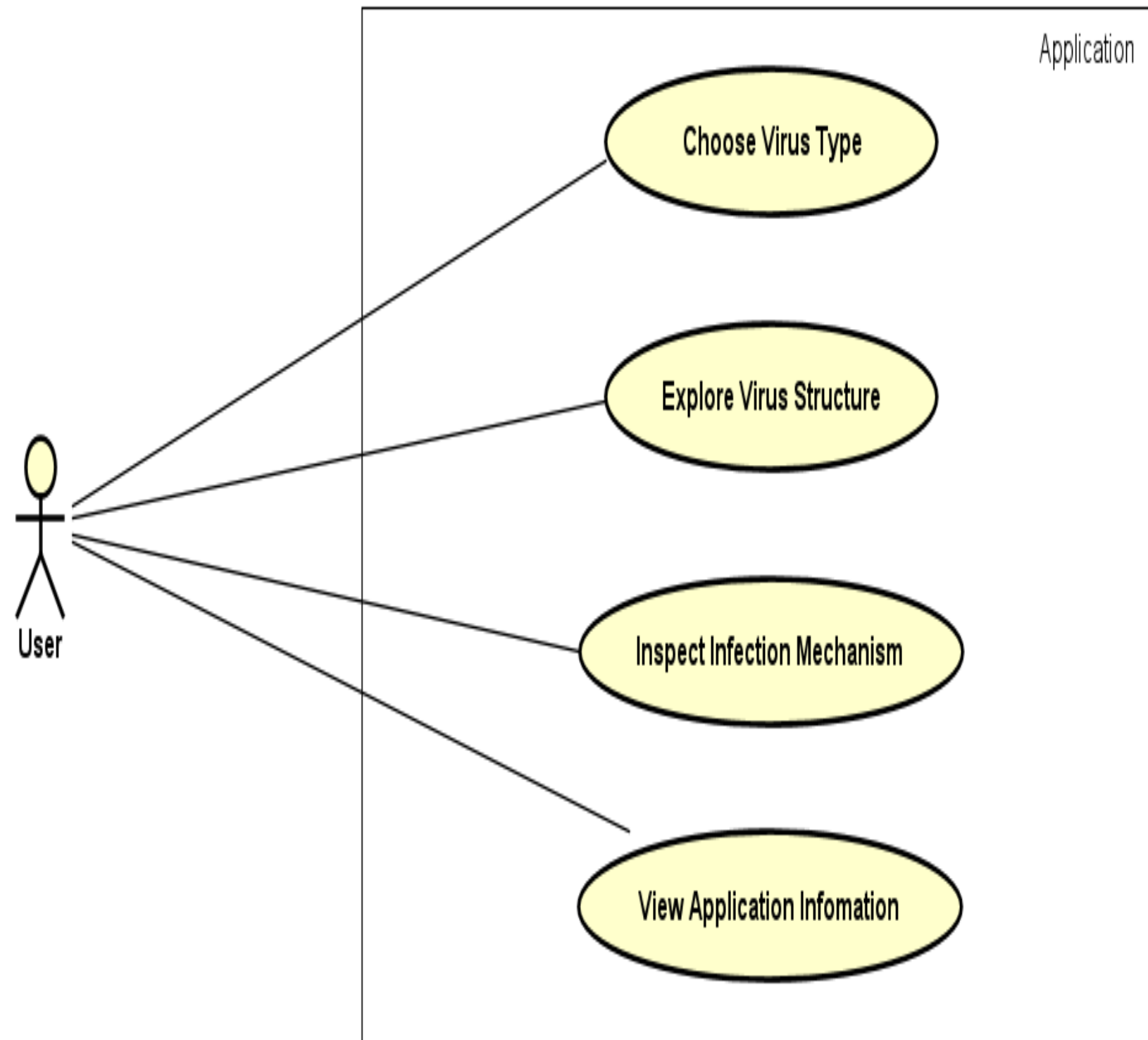
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Problem statement

- Users can select a type of virus
- view the structure of each virus type
- observe the infection mechanism of each virus type.

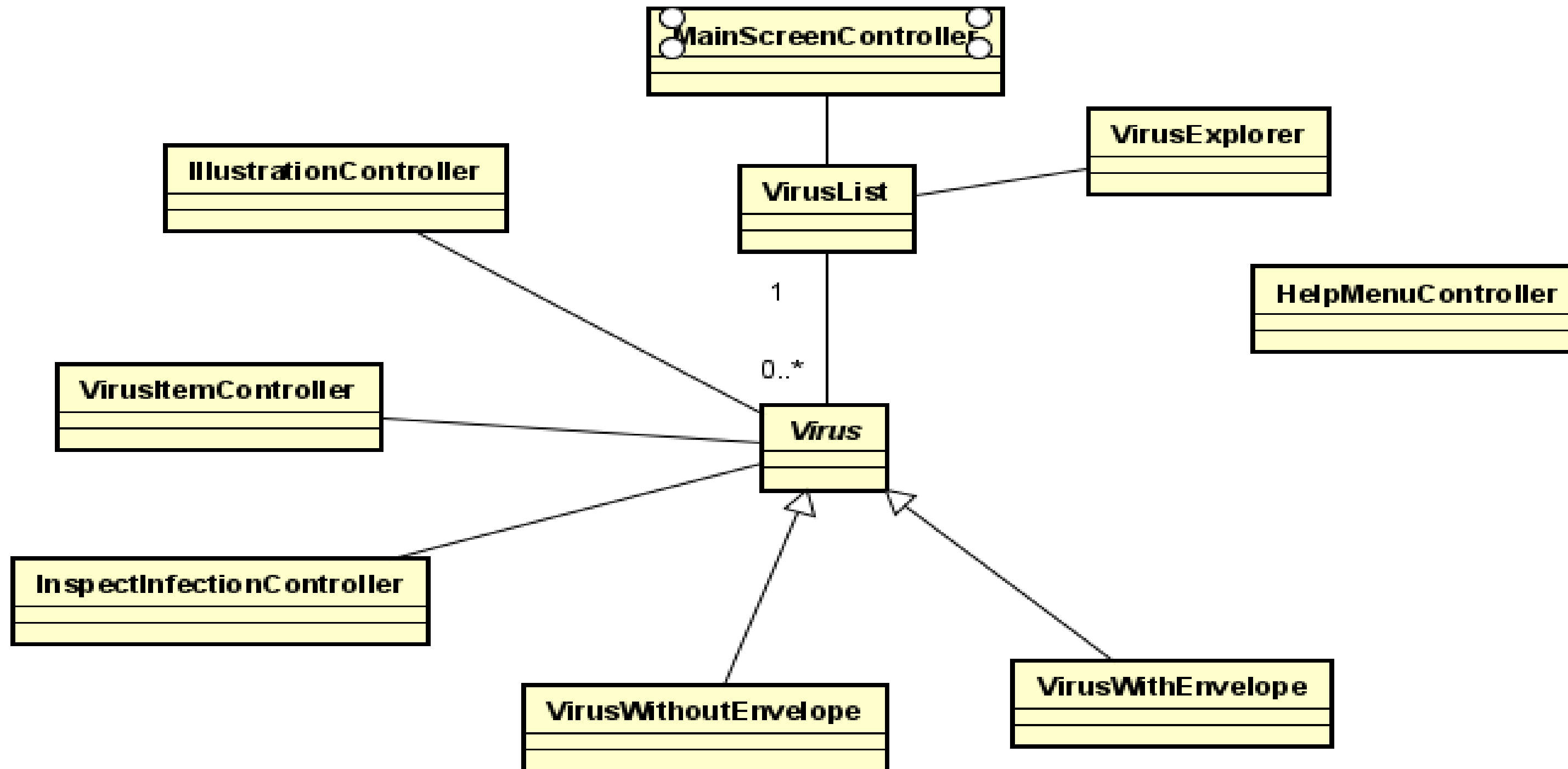


USE CASE DIAGRAM

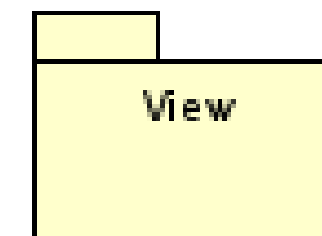
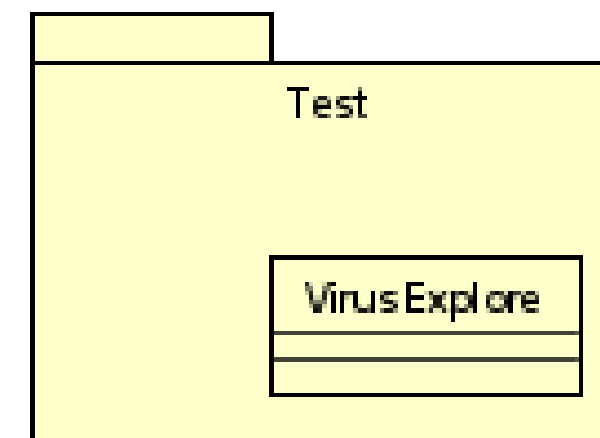
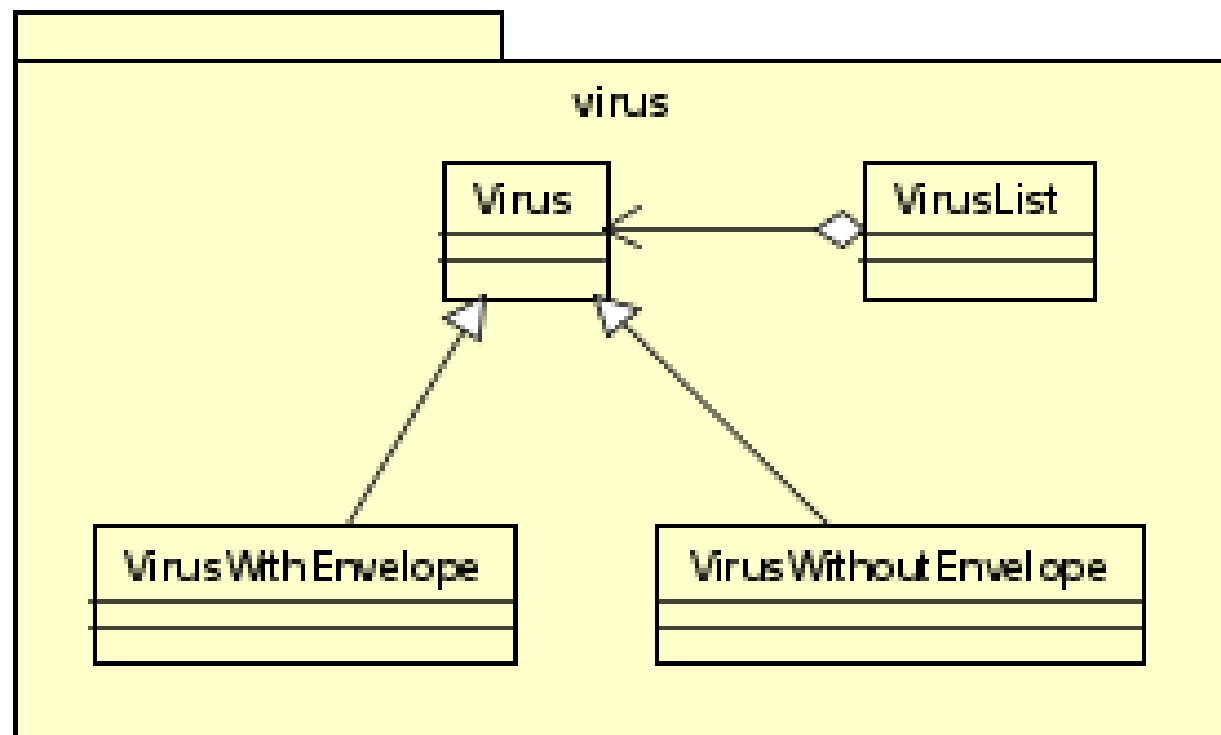
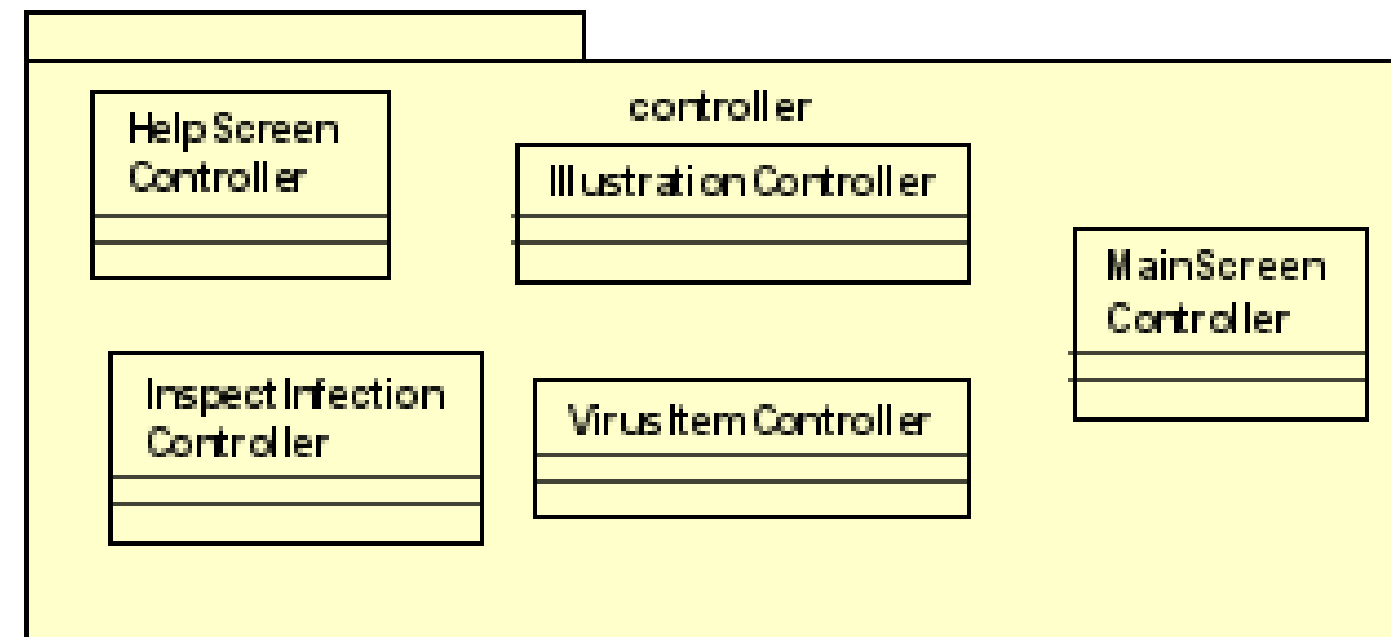
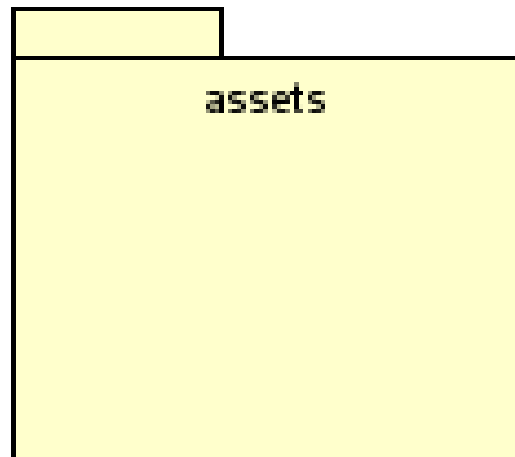


- **Choose Virus Type:** user can choose one of the two types of viruses with and without lipid envelope.
- **Explore Virus Structure:** user can view the structure image of the selected virus.
- **Inspect Infection Mechanism:** Users can observe the infection mechanism of the virus.
- **View Application Information:** Users can view detailed information about the application.

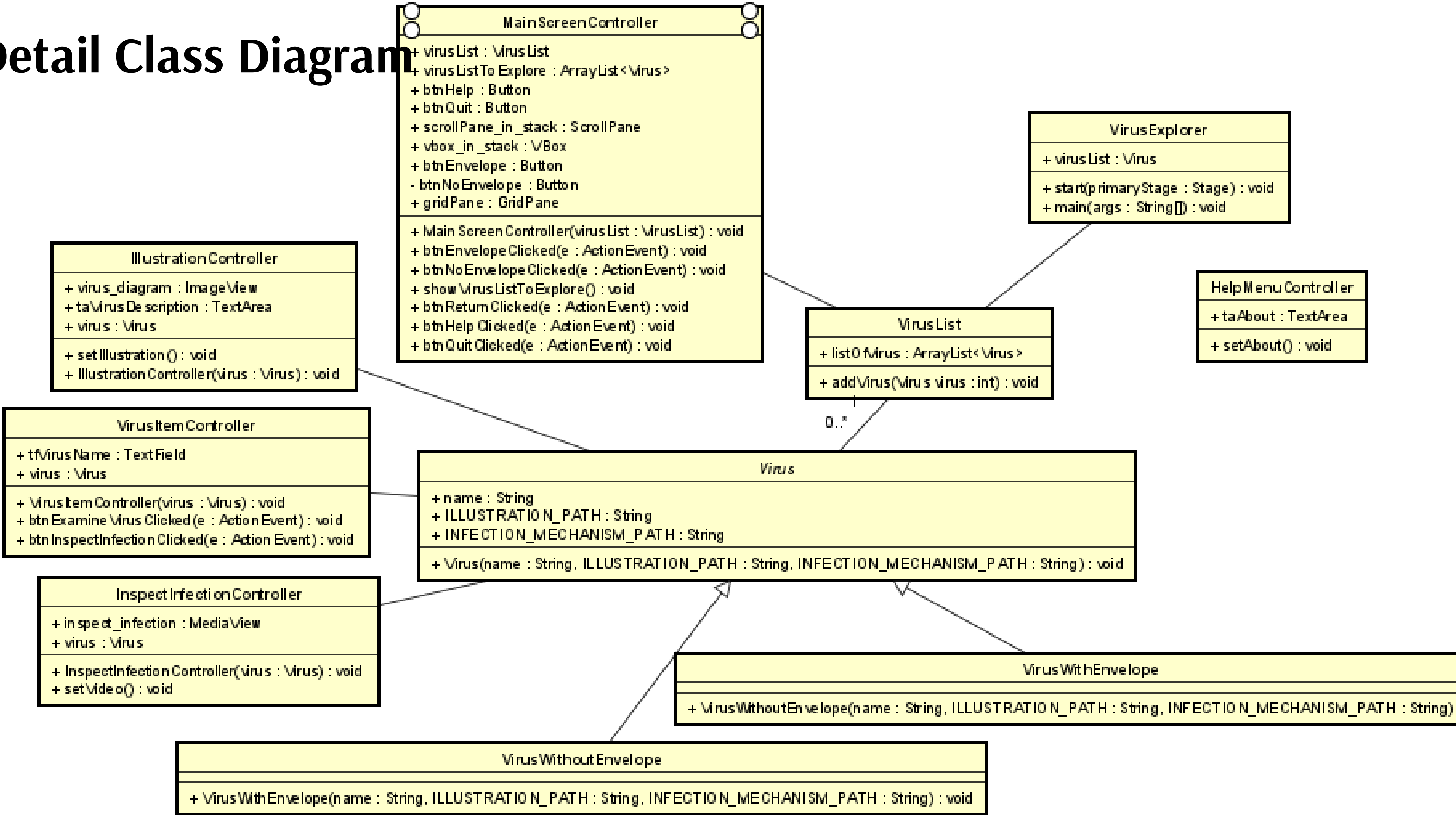
General Class Diagram



Class Diagram for packages



Detail Class Diagram



OOP techniques

- **Aggregation**

Virus is-a-part of VirusList

- **Inheritance**

An *abstract* class Virus has two subclass VirusWithEnvelope, VirusWithoutEnvelope

Link video demo: