Demonstration of types of COVID-19 virus and its mechanism

Team 18

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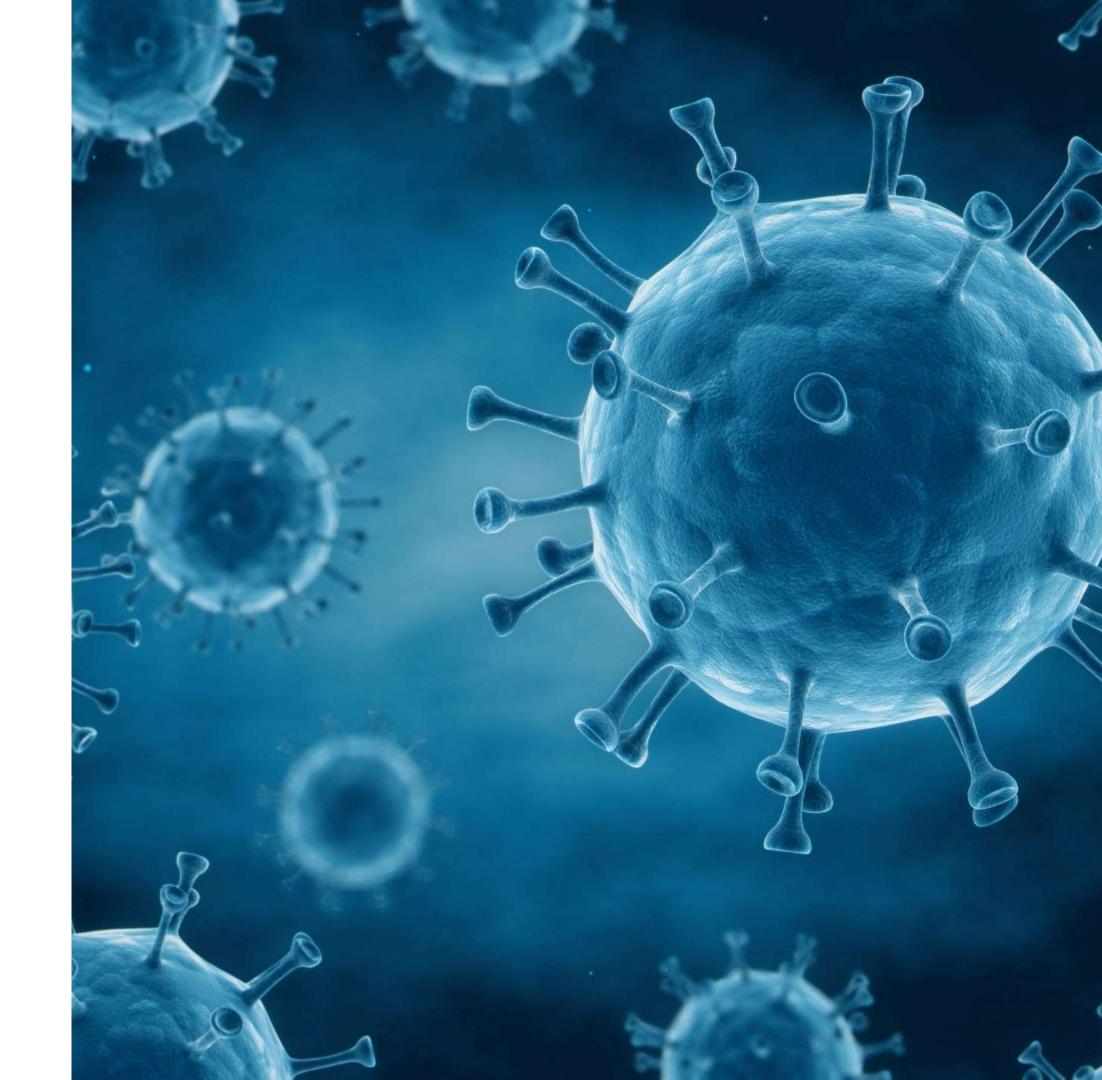
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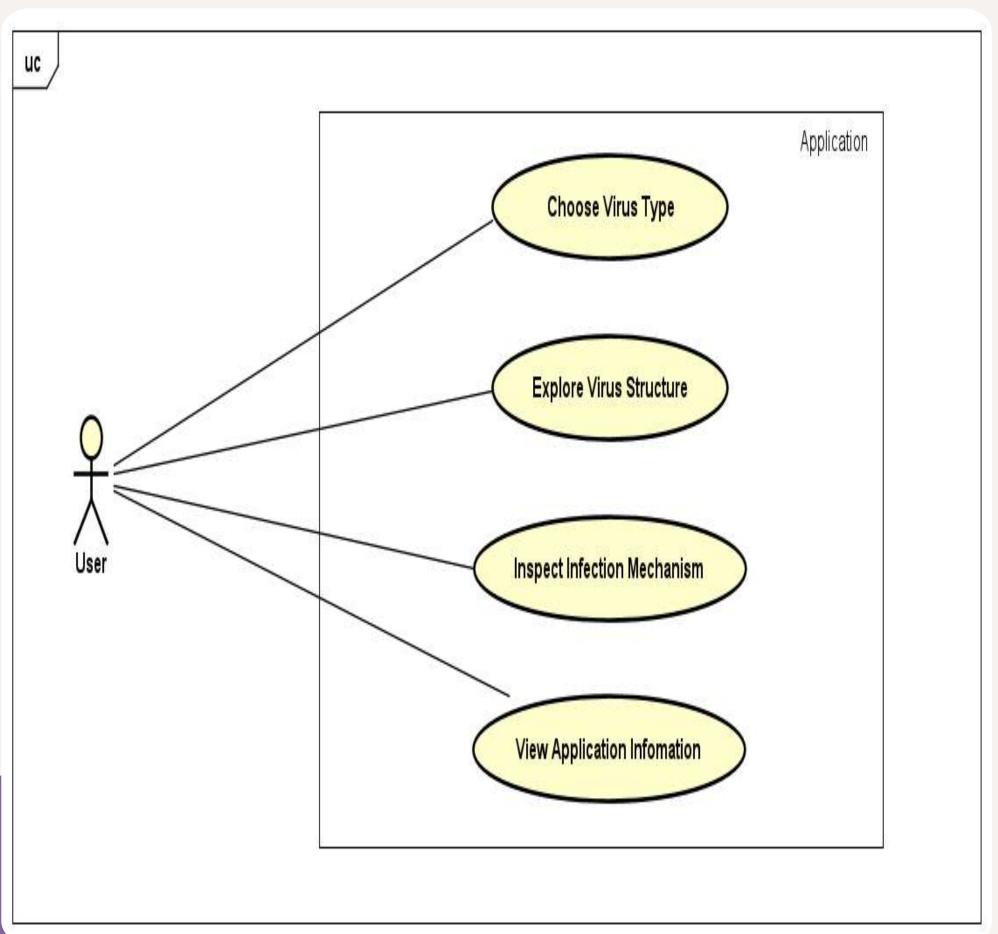
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Problem statement

- Users can select a type of virus
- Study the structure of each virus
- Observe the infection mechanism of each virus

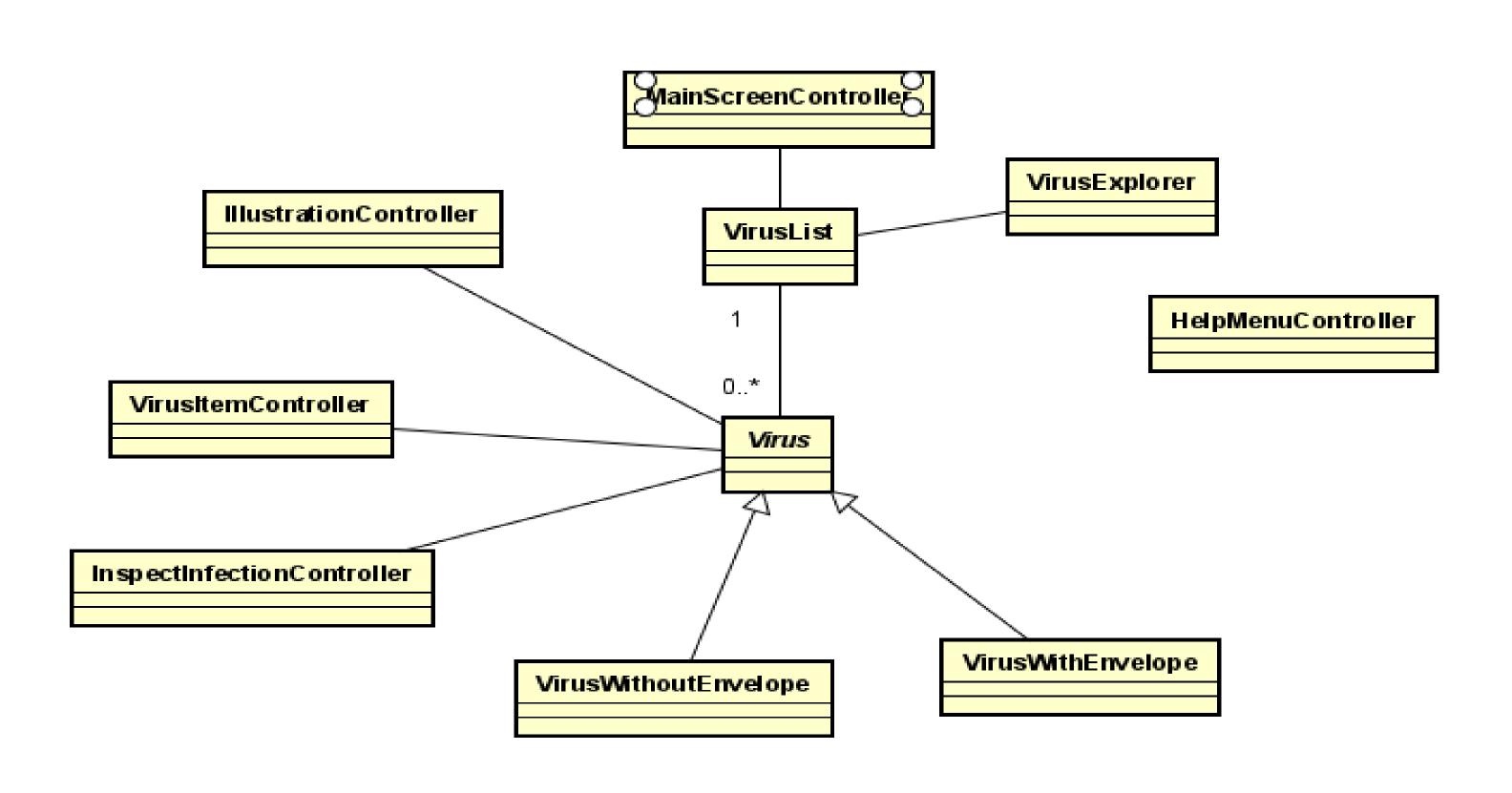


USE CASE DIAGRAM

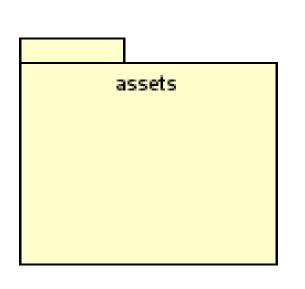


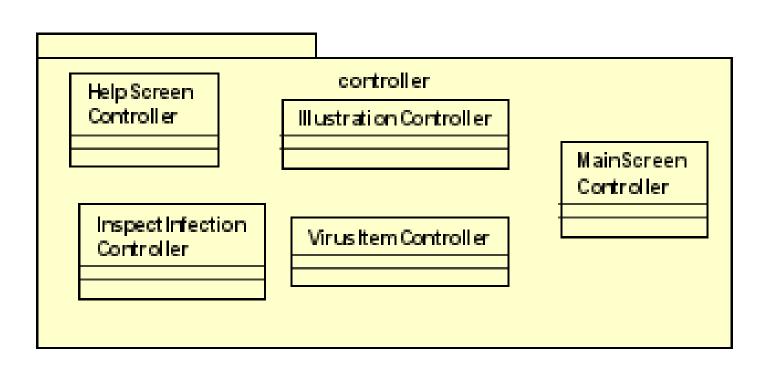
- Choose Virus Type: user can choose one of the two types of viruses with and without lipid envelope.
- Explore Virus Structure: user can view the structure image of the selected virus.
- Inspect Infection Mechanism: Users can observe the infection mechanism of the virus.
- View Application Information: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

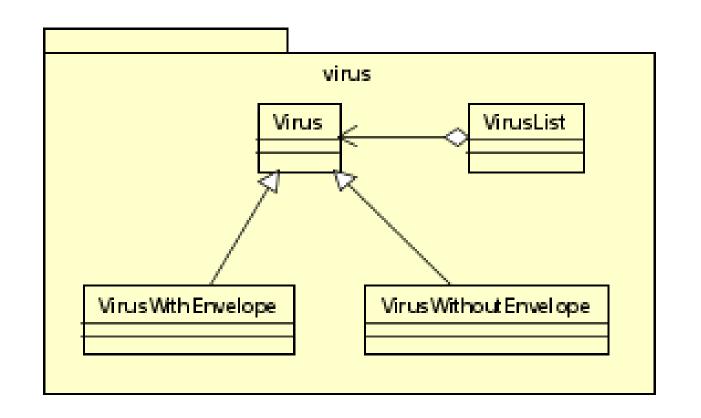
General Class Diagram

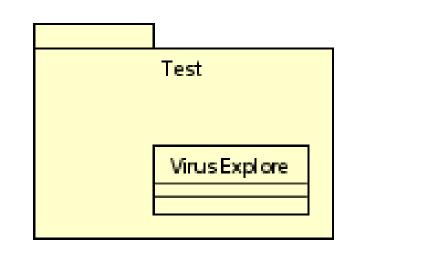


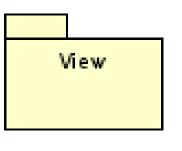
Class Diagram for packages











OOP techniques

Aggregation

Virus is-a-part of VirusList.

Inheritance

An abstract class Virus has two subclasses VirusWithEnvelope, VirusWithoutEnvelope.

Encapsulation

The internal states of an object are hidden from the outside world.

Link video demo:

https://youtu.be/wnKvfCPuTRA