

Team 4 (Canary)

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## HW01 - Binary Calculator MVC

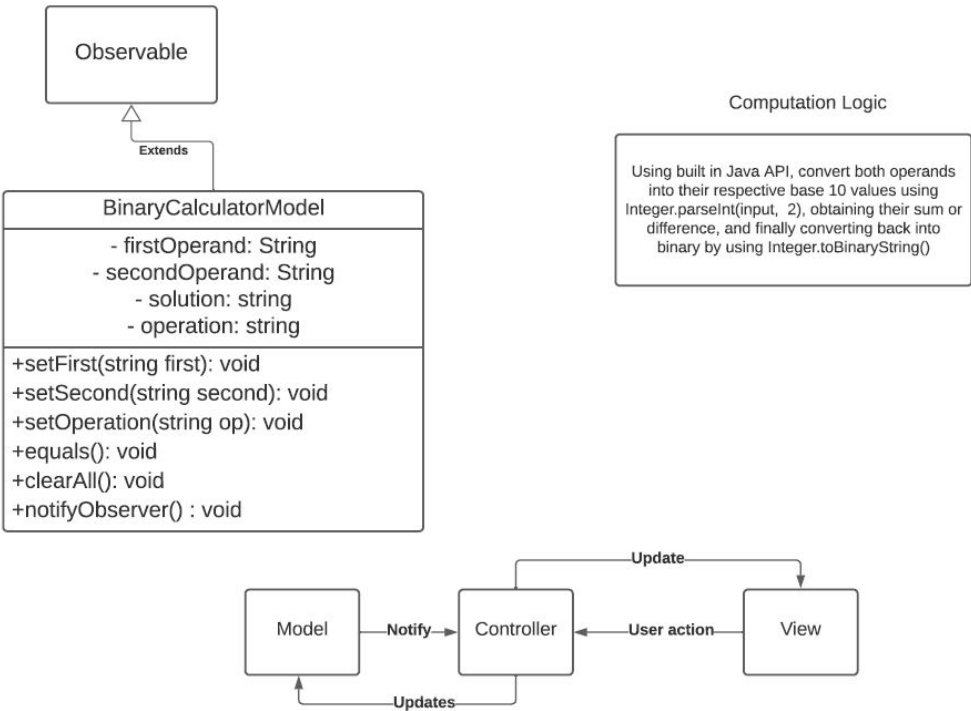
### *General Description*

The Binary Calculator Application (from now on called “the app”) is a calculator capable of adding and subtracting binary numbers. While many calculator apps exist, having one dedicated to binary numbers is both an added challenge and a beneficial addition to the existing calculator market. That being said, this app *exclusively* works with binary numbers, and thus only has “1” and “0” as number input options.

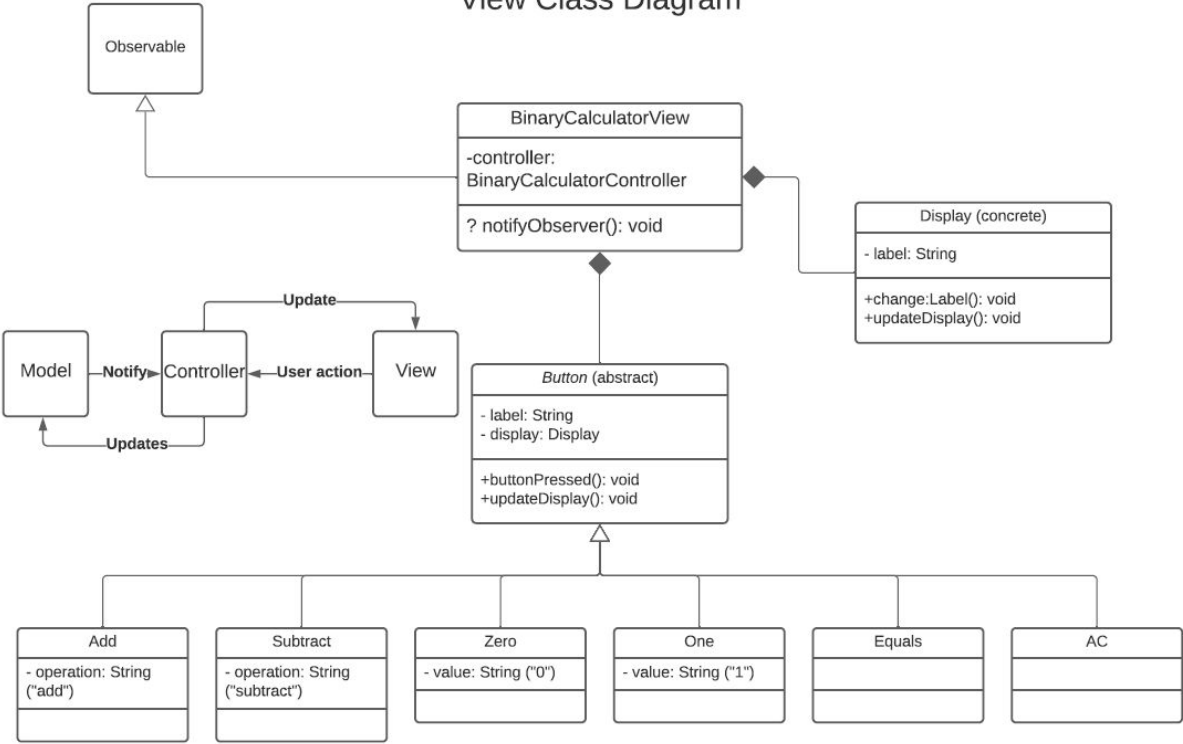
### *Implementation*

Utilizing the Observer design pattern along with the Model-View-Controller pattern, below are the UML Class, State, and Use-Case diagrams. These are also included as their own PDFs in the Canary repository.

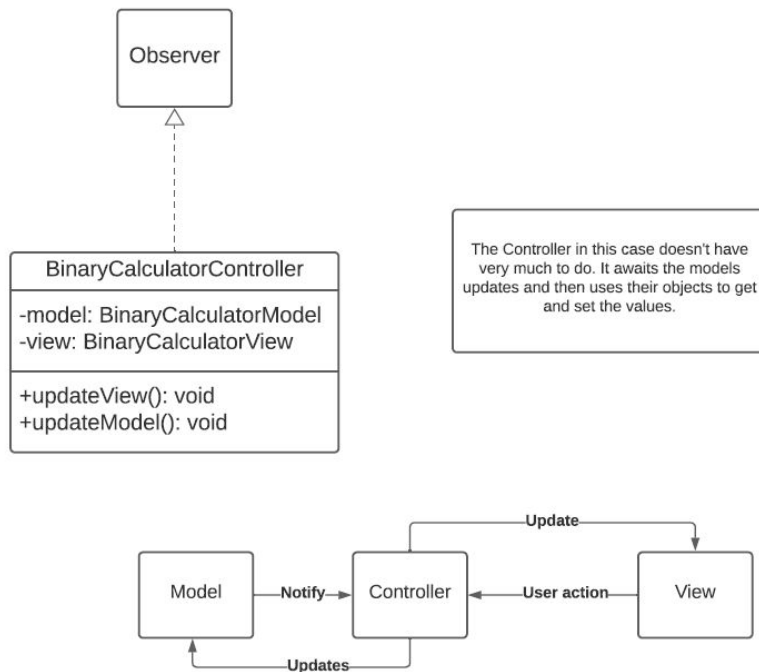
Model Class Diagram



View Class Diagram



## Controller Class Diagram



## State Diagram

