Capstone Project Design

Map

* The program will display a map of Japan that shows COVID case numbers for each region (prefecture).
* Add colors to the map, indicating the potential risk of being infected.
* Shows the places that the Olympic Games will be held at.
* Gives directions to the site where the Olympic Games will be held at.

Prefecture

* Shows COVID case numbers.
* Add a “weather” section that shows the weather forecast.

Guidebook

* A guide for visitors that answers their most frequently asked questions.
  + Where to eat, where to shop, how to avoid traffic, etc.
* A guide to popular restaurants, historical monuments, and world heritage sites
* A checklist that the user can use for COVID self-assessment
* A list of emergency numbers
* A map that shows the major hospitals and COVID testing centres
* Flashcards for quick communication

File

* Saves user settings into a file
* Saves case numbers into a file
* Get data from a file

SRP Analysis

MainDisplay Class

* The MainDisplay displays itself.
* The MainDisplay updates itself.

CaseNumberApi Class

* The Case Number API grants connection to itself.
* The Case Number API gets COVID case numbers itself.

~~Database~~ Prefecture Class

* The Prefecture sets its case numbers to itself.
* The Prefecture returns the case number itself.
* The Prefecture sets the weather forecast to itself.
* The Prefecture sets the population to itself.

Guide Class

* The Guide sets the article to itself.
* The Guide returns the article from itself.

Calculator Class

* The Calculator Class calculates itself.

YahooApi Class

* The Yahoo API grants connection to itself.
* The Yahoo API gets weather forecasts for itself.
* The Yahoo API returns the weather forecast from itself.

TranslatorApi Class

* The Translator API grants connection to itself.
* The Translator API gets translation for itself.

File class

* The File reads from itself.
* The File writes into itself.

Image Class

* The Image loads itself (from the disk).