Phase 2 - Nancy Group A

Not Always Neatly Coding... Yet.

Introductions

Jordan Rabideau - Team Coordinator

Kelly Appleton - Requirements Coordinator

Tessa Zakroczemski - Testing/QC Coordinator

Yun Yiu Cheng - Configuration Coordinator

Although these were our assigned roles, we tended to equally collaborate on each portion of the project.

Principles We Abided By

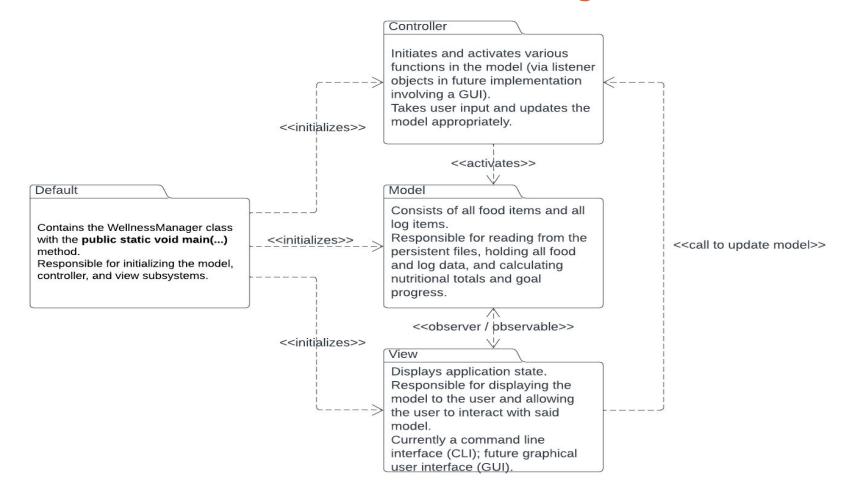
Principles of Good Design

- Low Coupling & High Cohesion
 - there is a small degree of interdependence between classes (only when necessary)
 - each component addresses a single issue
- Allowed us to implement the GUI efficiently (past the learning curve)

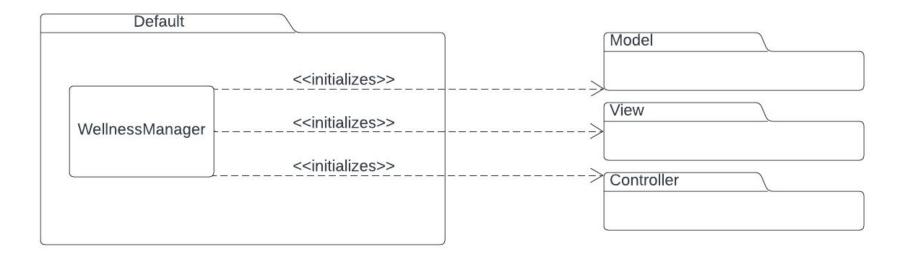
Mutual Respect

- Abide by the team contract from the beginning
- Respect each others commitments outside of the course
- Meet regularly to make sure we're on the same page

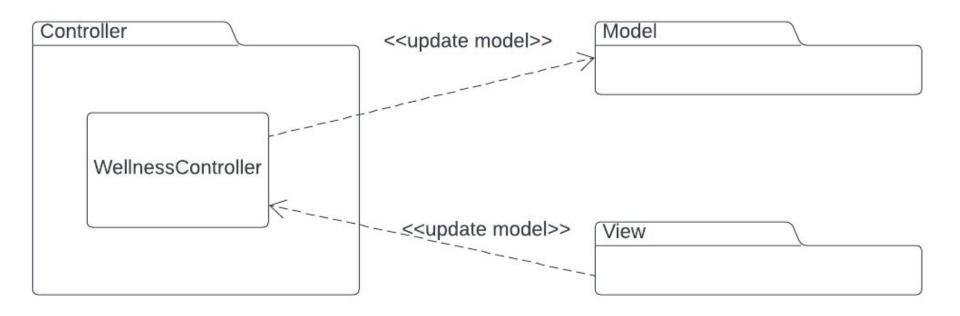
Architectural Overview - Subsystems



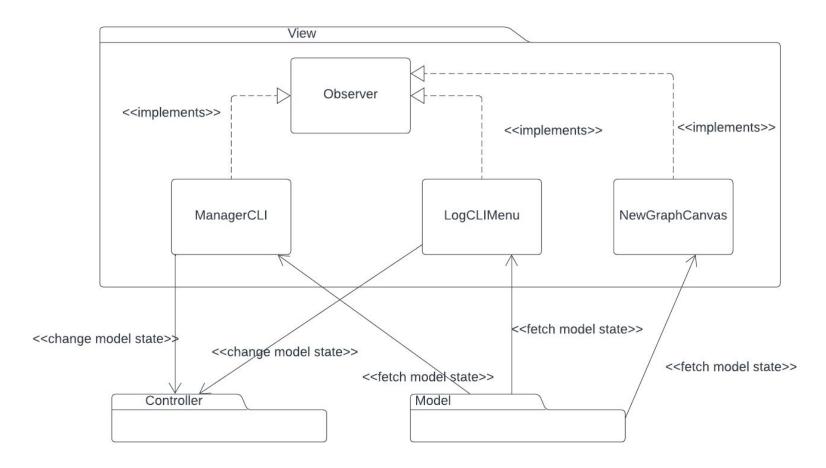
Design Overview - Default



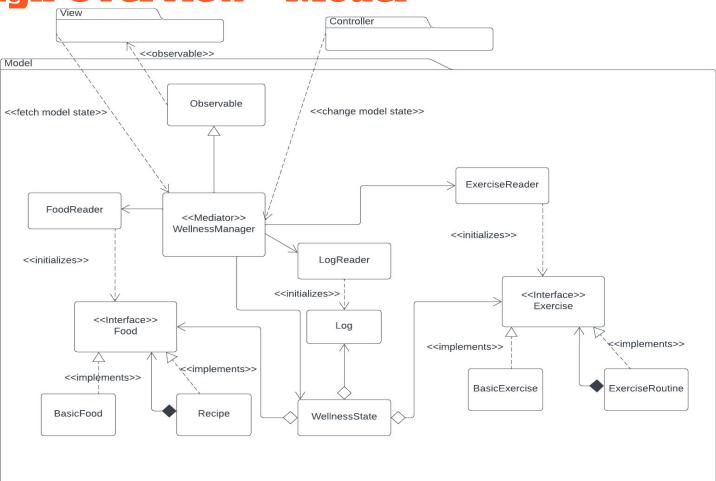
Design Overview - Controller



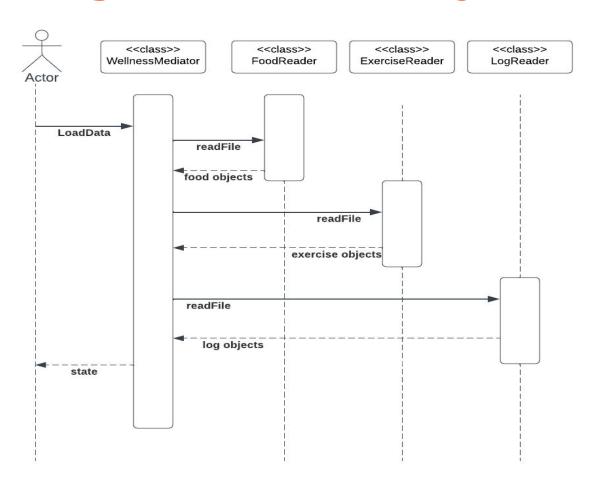
Design Overview - View



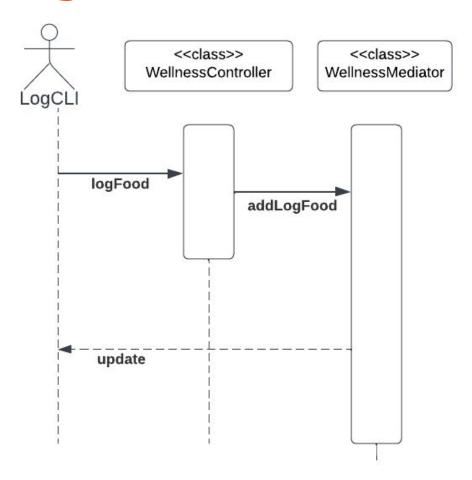
Design Overview - Model



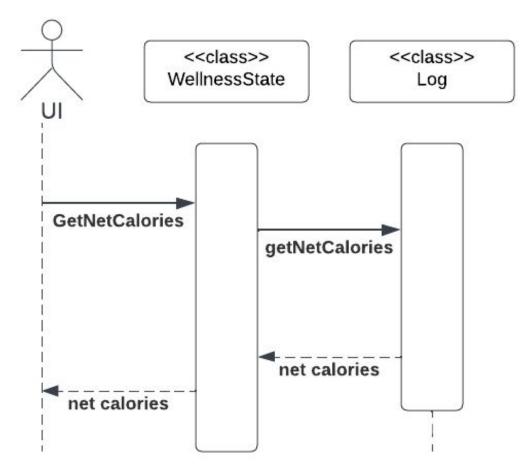
Sequence Diagram - Initialize Objects



Sequence Diagram - Add Food to Log



Sequence Diagram - Get Net Calories



Strong Points

- Exercise routines are ready to be implemented (extensibility)
- Switching from CLI to GUI was relatively straightforward
- All view classes update automatically when Model updates
- Team-wise
 - All willing to do work / help each other
 - Always asking "What can I do?"

Design Improvements & Weak Points

- Code organization
- Time management
- Observer pattern implementation
 - WellnessState object is coupled to many other classes
- Class bloat
 - WellnessState and WellnessMediator classes became larger than they should have been
- GUI inefficiency
 - We are relatively unfamiliar with Swing, which caused progress to slow
- Class names, especially after switching from CLI to GUI
 - Wanted to switch "CLI" to "UI" but did not have time / did not want to break anything

Lessons Learned

- Allocate time for a learning curves (Swing)
- The initial discussion of program patterns and justifications is crucial
 - o It is much more difficult to implement patterns once you've started coding
 - Beyond good design, it helps the overall organization of the program as well as team coordination
- Technical debt is inevitable, but having too much of it will hurt the team

Demo

A demo of our program will now be given...