The A Team

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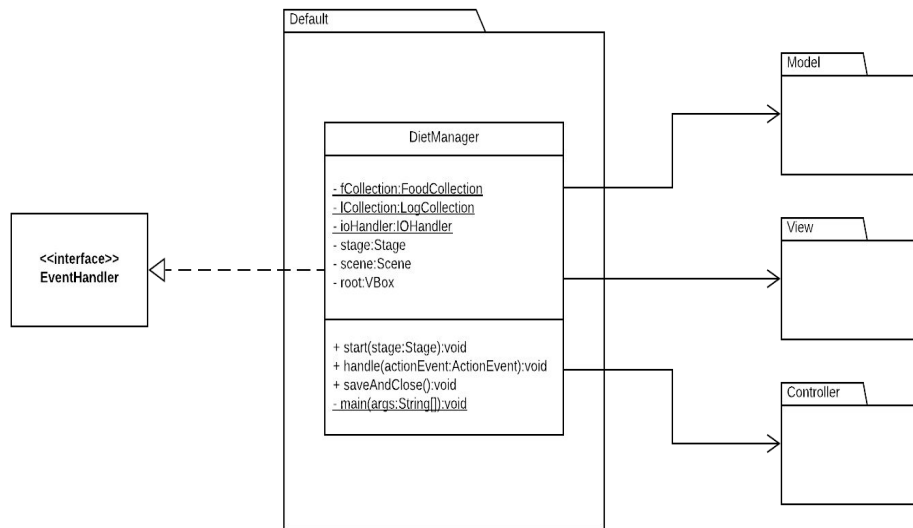Zach Easley

Initial Design Process

- Data Design
  - Separated data storage into FoodCollection, ExerciseCollection, LogCollection
  - Composite Pattern (Recipe)
- Use Cases
  - Designed controllers around the collections
  - Designed views around controllers
- Original Design Document Issues
  - Splitting into Food, Exercise, Log and Nutrition Tracker subsystems
  - Helped focus on separation of concerns and reduced coupling
  - Hurt our understanding of MVC interaction until after redesign
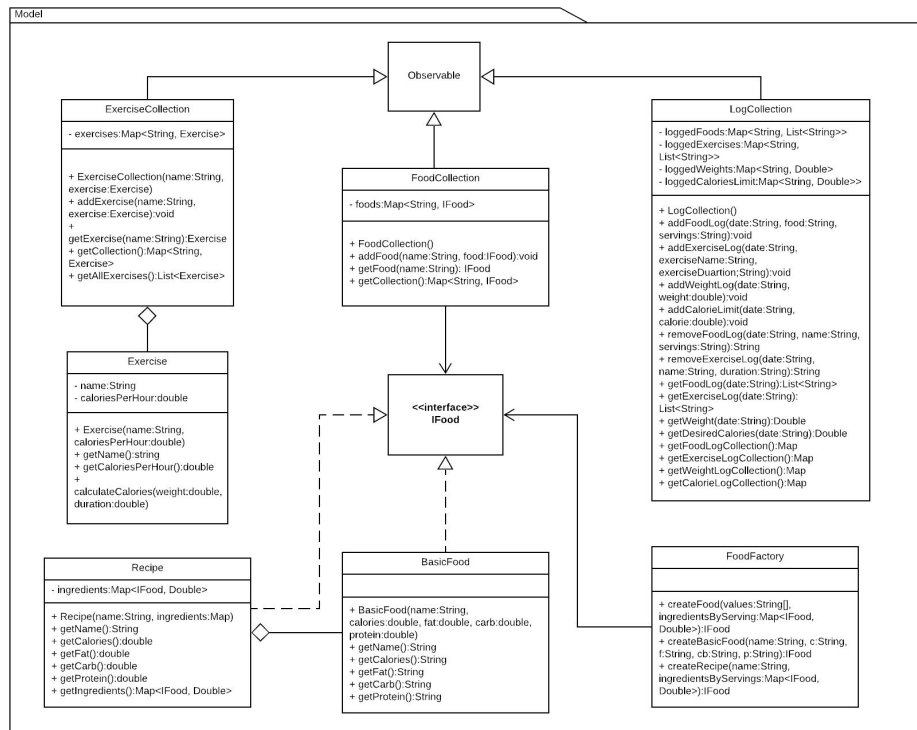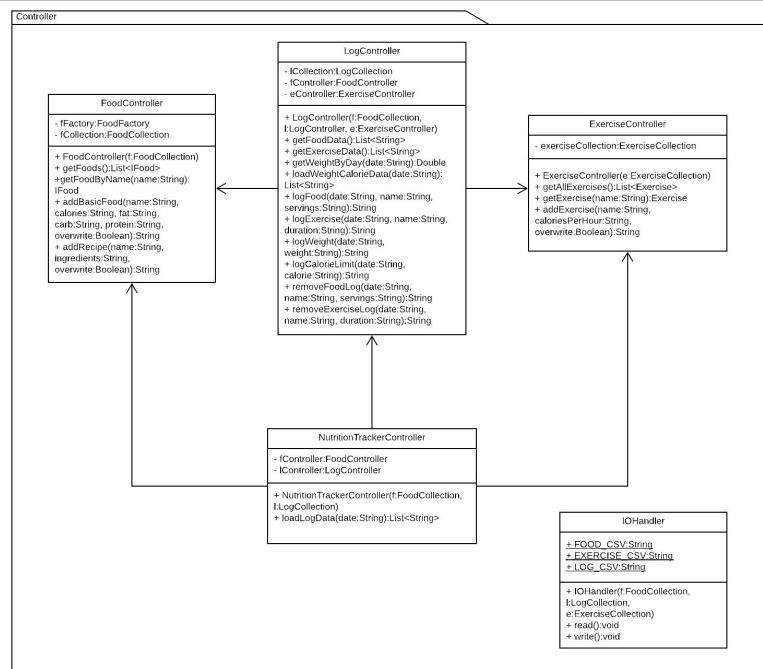
Default Subsystem

- Initiates UI construction and displays the UI
- Prepares the data source via the IOHandler in the Controller Subsystem

Model Subsystem

- Observables automatically send updates to views
- Split up Food and Exercise Collections for separation of concerns
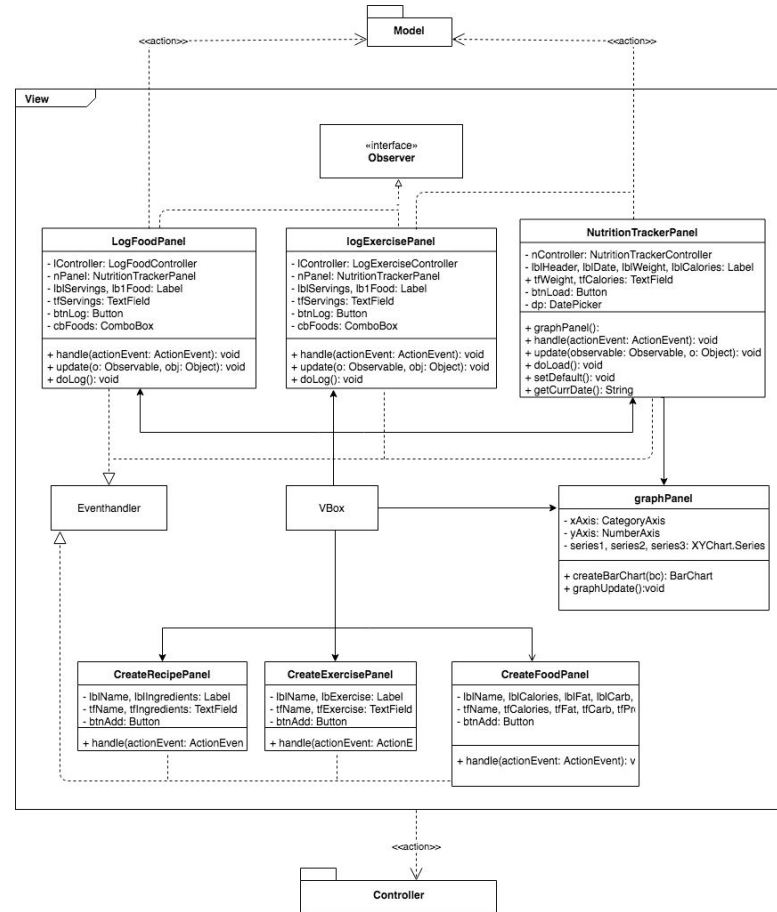- Kept food logs with exercise logs because the data is necessarily related
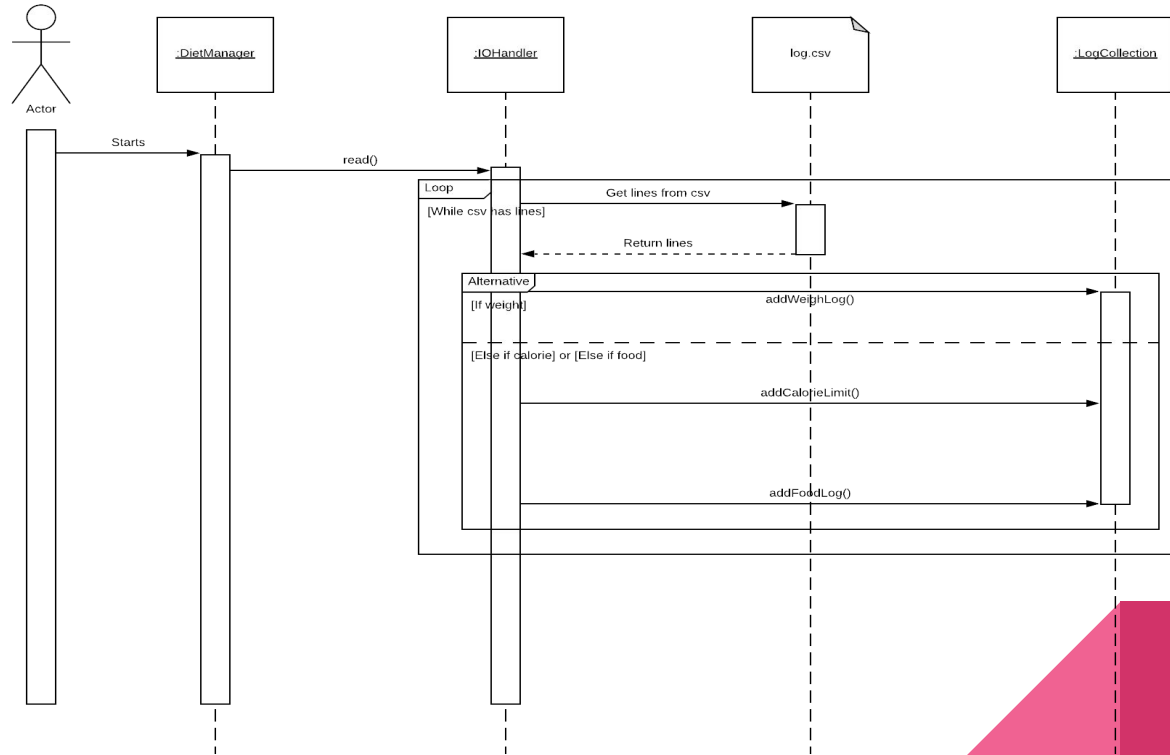
Controller Subsystem

- Designed around use cases
- Acts like an API for any UI to plug into and modifies models accordingly
- Performs input validation and returns error information
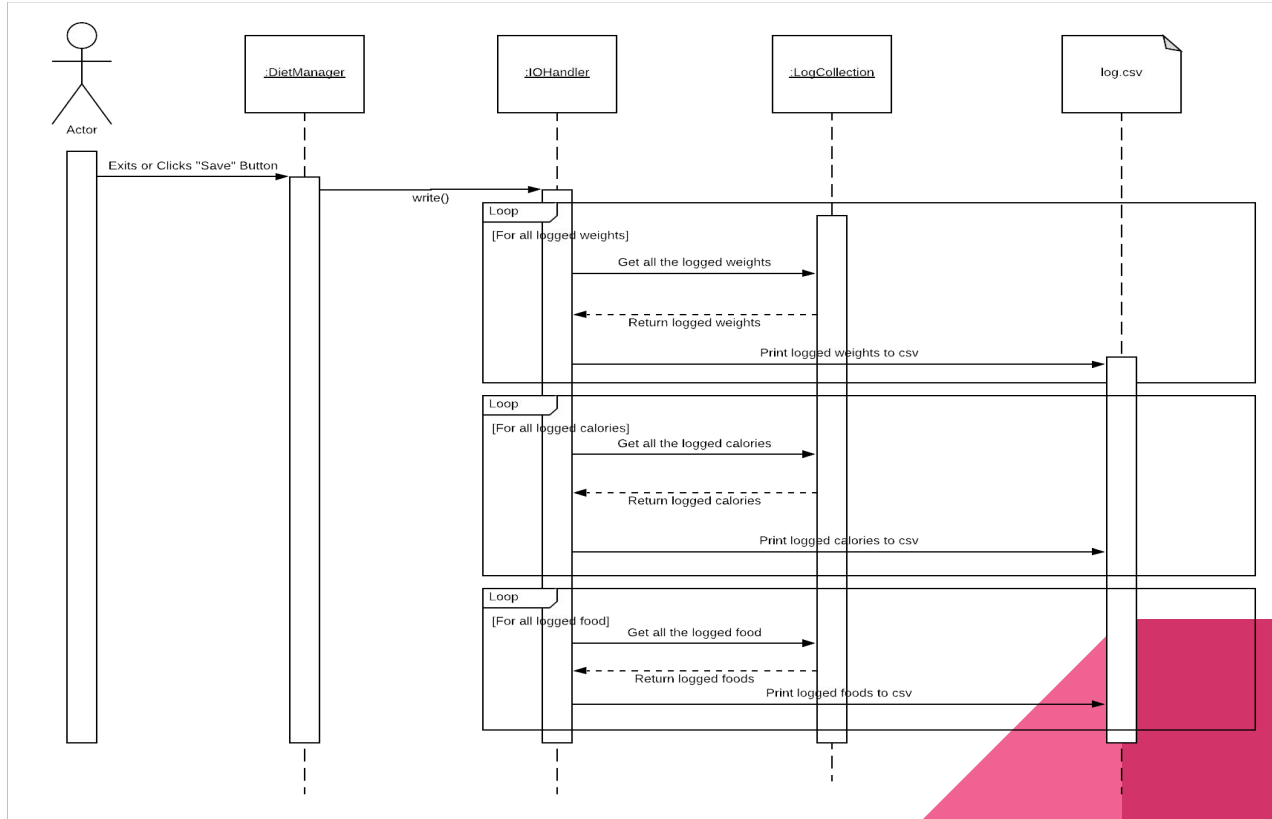
View Subsystem

- Created separate views to encapsulate use cases defined previously
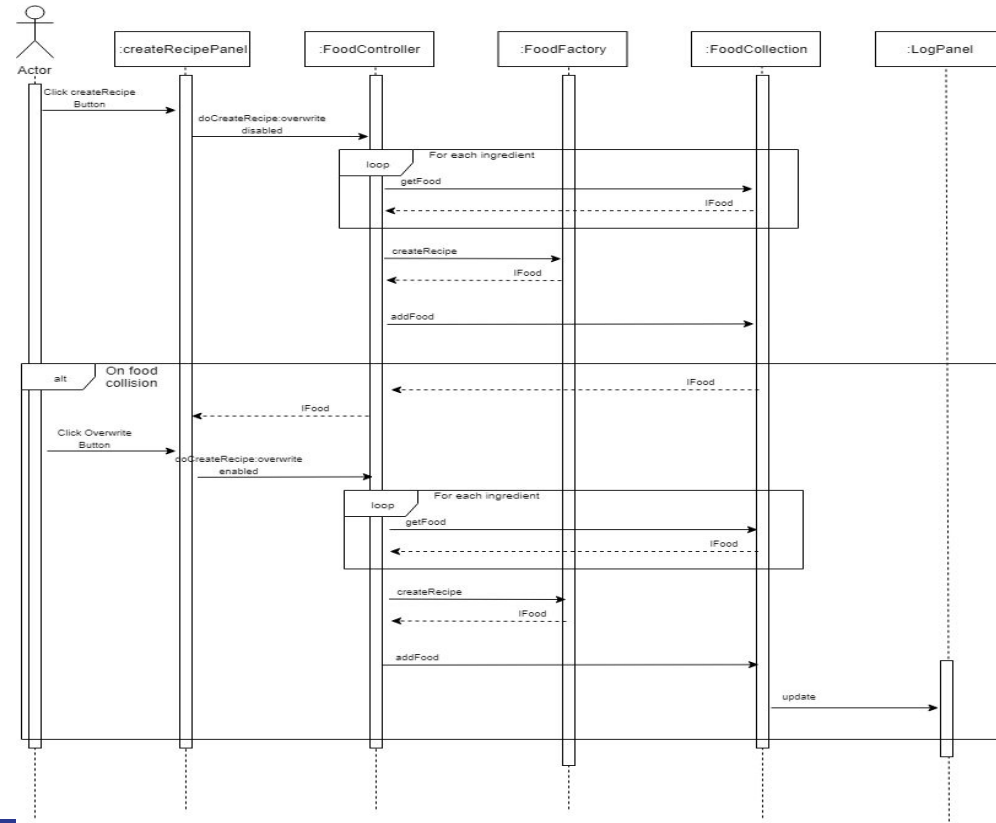- Created a CLI for presentation purposes after UI was designed
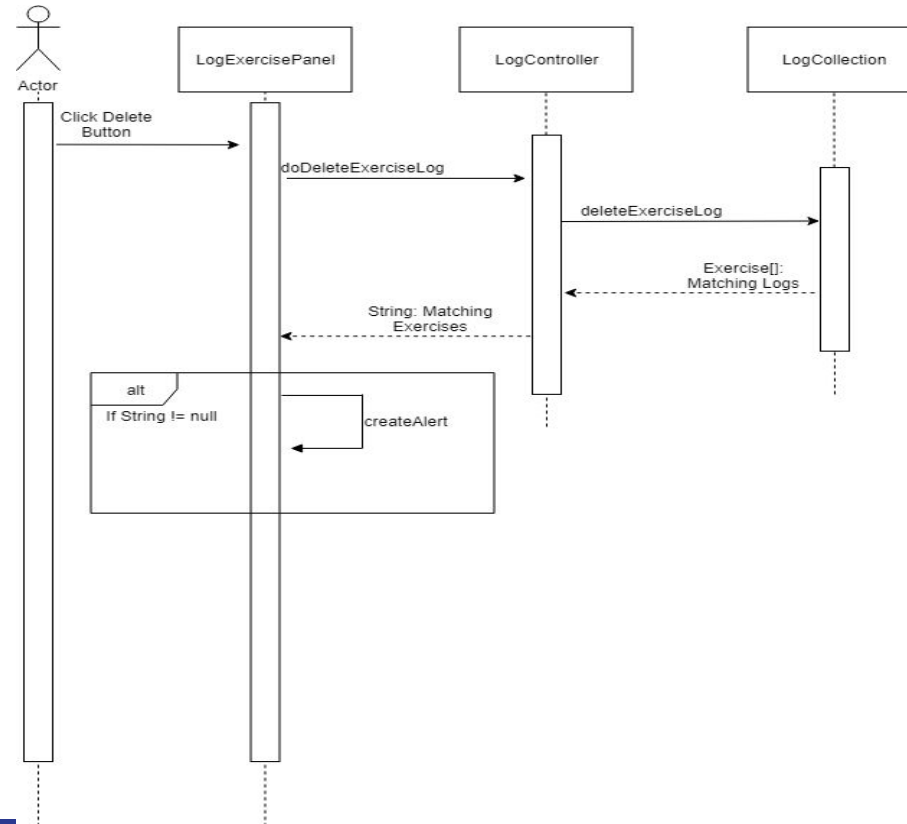- Built with JavaFX

Reading from log.csv

Writing to log.csv

Creating a recipe

Deleting an logged exercise

Team Dynamic

- Challenges (The Bad)
  - Subsystem design issue
  - Only one set meeting time per week was possible
- Successes (The Good)
  - Communicated well
  - Had a good review process for pull requests
  - Separated tasks evenly and efficiently

Demo!