

# Diet Manager Team B - Bits & Bytes

Bubba, Brandon, Brennan, Rosis, and Sachi

## Hardest Question: Did I go over my Calorie Goal on this day?

<u>Purpose:</u> To show the user, the consequences of their actions by giving them a retrospective view analysis of their eating habits?

**Example**: How many calories did I consume on April 9th 2016?

```
b, Pizza Slice, 298.0, 12.1, 34.0, 13.3
 2016,04,09,w,200.5
                                        b, Berry Pie Slice, 360.0, 17.5, 49.2, 4.0
 2016,04,09,c,2000.0
                                        b, Yogurt (4oz), 100.0, 1.5, 19.0, 4.0
 2016,04,09,f,Yogurt (4oz),1.0
                                        b, Hot Dog, 190.0, 16.0, 4.0, 7.0
 2016,04,09,f,Bad Dinner,1.0
                                        b, Hot Dog Bun, 110.0, 1.5, 21.0, 3.0
                                        r, HotDog+Bun, Hot Dog, 1.0, Hot Dog Bun, 1.0
 2016,04,09,f,Yogurt (4oz),1.0
                                        b, Potato Salad (cup), 358.0, 20.5, 27.9, 6.7
 2016,04,10,f,Yogurt (4oz),2.0
                                        b, Bread (slice), 80.0, 1.0, 15.0, 2.0
 2016,04,10,f,PB+J Sandwich,1.0
                                        b, Peanut Butter (tbsp), 95.0, 8.0, 3.5, 4.0
 2016,04,10,f,Cola (can),1.0
                                        r, PB Sandwich, Bread (slice), 2.0, Peanut Butter (tbsp), 2.0
                                        b, Jelly (tbsp), 56.0, 6.3, 14.7, 0.0
 2016,04,10,f,Pizza Slice,1.5
                                        r, PB+J Sandwich, PB Sandwich, 1.0, Jelly (tbsp), 1.0
 2016,04,10,f,Cola (can),1.0
                                        b, Cola (can), 140.0, 0.0, 39.0, 0.0
 2016,04,10,f,Yogurt (4oz),1.0
                                        r,Bad Dinner,Pizza Slice,2.0,HotDog+Bun,2.0,Potato Salad (cup),1.8,Cola (can),1.0,Berry Pie Slice,1.5
Line 3: 1 Yogurt
                                       2(Yogurt) + 2(Pizza Slice) + 2(HotDog+Bun) + 1.8(Potato
```

Line 4: 1 Bad Dinner Line 5: 1 Yogurt

Salad) + 1(Cola Can) + 1.5(Berry Pie Slice) =

2(100) + 2(298.0) + 2(190+110) +1.8(358) + 1(140) +

1.5(360) = 2720.4 calories

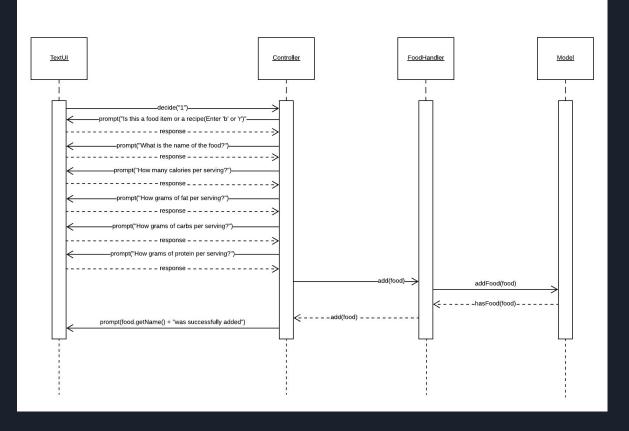
## Scope of what we're trying to accomplish:

We are trying to get the model to perform CRUD:

CREATE - READ - UPDATE - DELETE data into or from the file via the model.

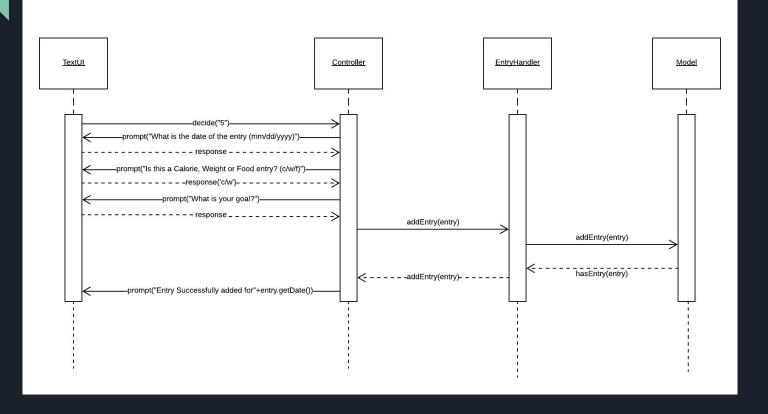
### **CREATE** - UML Diagram

#### Create a Food



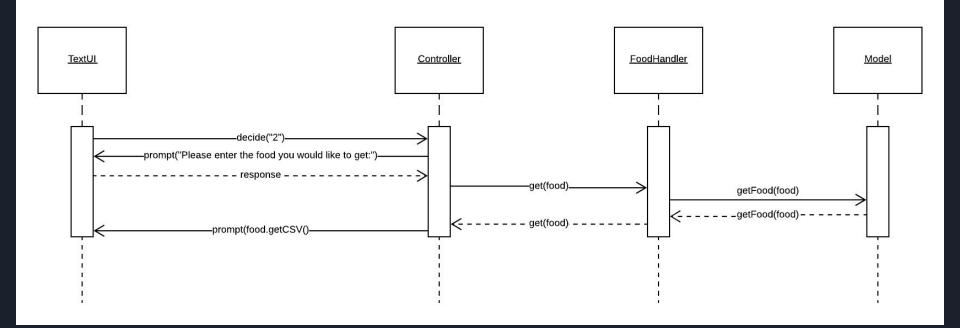
### **CREATE** - UML Diagram

### Create a Calorie/Weight Entry



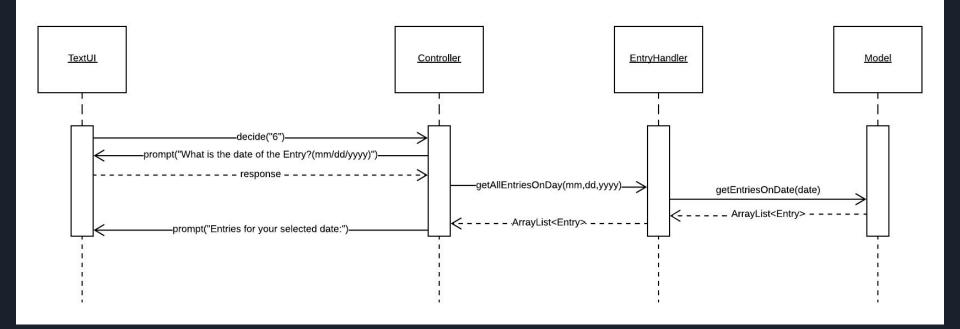
## **READ -UML Diagram**

## Retrieve a Food



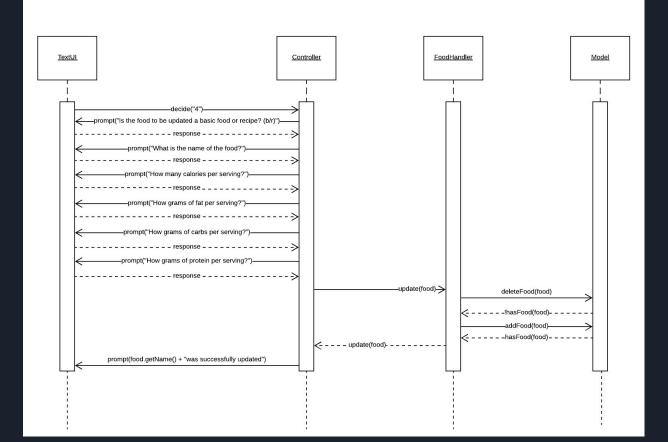
### **READ -UML Diagram**

## Retrieve a Entry



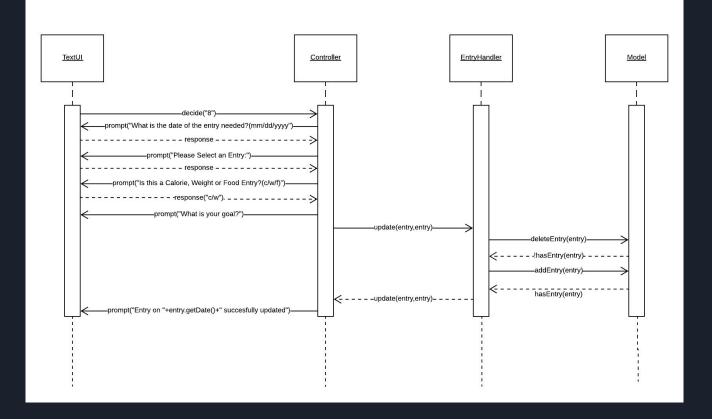
## **UPDATE - UML Diagram**

#### **Update a Food**



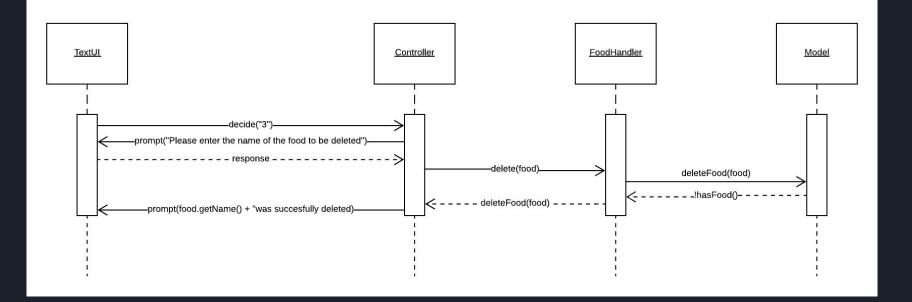
### **UPDATE - UML Diagram**

#### **Update a Calorie/Weight Entry**



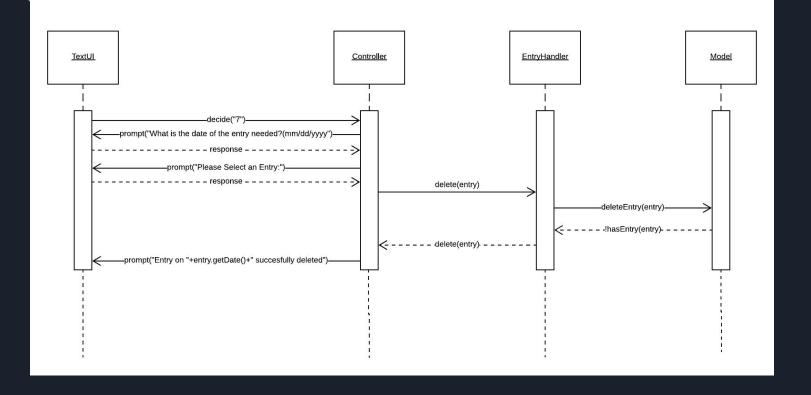
### **DELETE - UML Diagram**

## Delete a Food

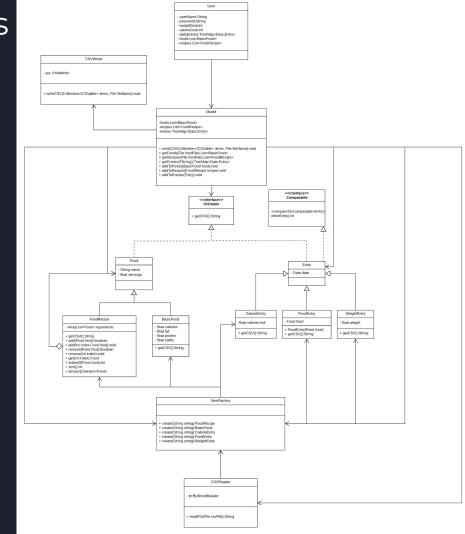


### **DELETE - UML Diagram**

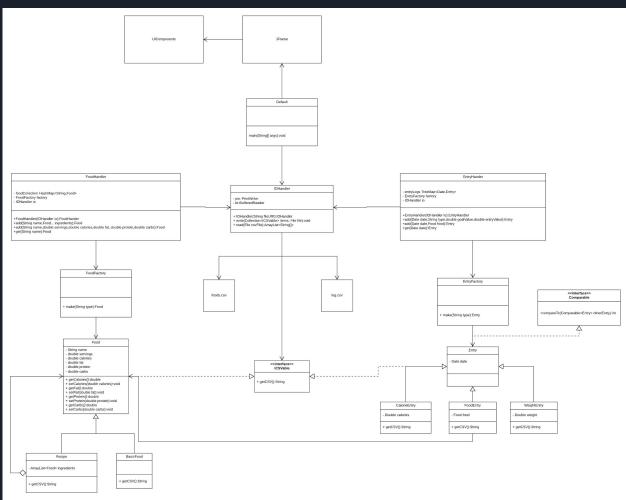
### Delete a Entry



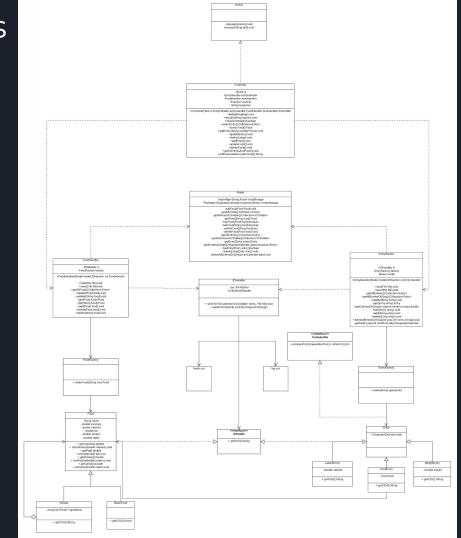
## Story of UML Revisions



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## Story of UML Revisions



## Team's Challenges and Successes

#### **CHALLENGES**

- Git merge conflicts
- One person updating Trello
- Constant design revisions leading to tasks that block other tasks
- Trying to decouple Entry and Food

#### SUCCESSES

- Meeting outside class
- Communicating via Slack & Discord
- Separation of tasks
- A S.O.L.I.D. Model
- No hesitation to ask questions

## Suggestions? Comments? Questions?

