



Created by: Anthony Santos, Austin Snow, Dartagnan Birnie and
Jason MacMillan

Meet the Team

Anthony Santos



Student at UNH
CEPS majoring in
Computer Sciences
From Hudson, NH

Back-End

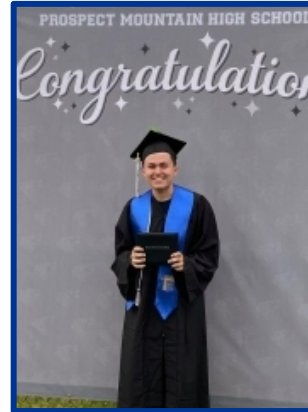
Austin



Student at UNH
CEPS majoring in
Computer Sciences
From Portsmouth,
NH.

Back-End

Dart Birnie



Student at UNH
CEPS majoring in
Computer Sciences
From Alton, NH.

Front-End

Jason MacMillan



Student at UNH
CEPS majoring in
Information
Technology
From Salem, NH

Front-End

MOV:

Make meal planning at the UNH dining halls more efficient and healthy by having 50 “FUN-H” plates, following the Wildcat Plate standard, created by May 5th, 2023.



Mission Statement:

There are different menus at each dining hall, which could make selecting certain options confusing for users. To counteract this, users will select their preferred dining hall first, and they will be prompted with healthy menu options from the hall they selected. Another issue is item location, users might not know where to find certain selections. To get around this, information on where to find all of the sections will be provided (main line, etc.).

Problem:

With FUN-H, the project team aims to create a healthier campus at UNH, while also making it easier for students and faculty to plan and find food options at both dining halls (HoCo, Philly). Through FUN-H can healthy meals be planned in a straightforward manner online before arriving at a dining hall.

Vision:

New students or students with certain diets/dietary restrictions may have a difficult time finding and locating meals at the UNH Dining Halls



User Stories

- As a member of the UNH weightlifting club, I want to save my previous plates so that I can plan them out ahead of time.
- As a professor, I want to be able to use the web interface easily so that I can find the food I want quickly.
- As a senior citizen of Durham, I would like clear instructions when using the app so I don't get confused and spend too much time using the app.
- As a casual student, I would like to see which dining hall has better options so that I can choose accordingly.
- As a new member of the UNH community, I want to know where the dining halls are located so I don't have to spend time finding them.

Expanded User Stories

Persona:

Joe Schmo - Incoming Freshman at UNH

User Story:

As an incoming freshman at UNH, I want to be able to understand the variety and nutritional value of food offered at the UNH dining halls so I can pick out healthy meals without the influence of my parents.

Persona:

John Doe - Student at UNH CEPS

User Story:

As a UNH student, I want to be able to exclude specific food groups when creating my Wildcat Plate so I don't accidentally consume something I shouldn't.

Persona:

Dr. Steve - An older Professor at UNH

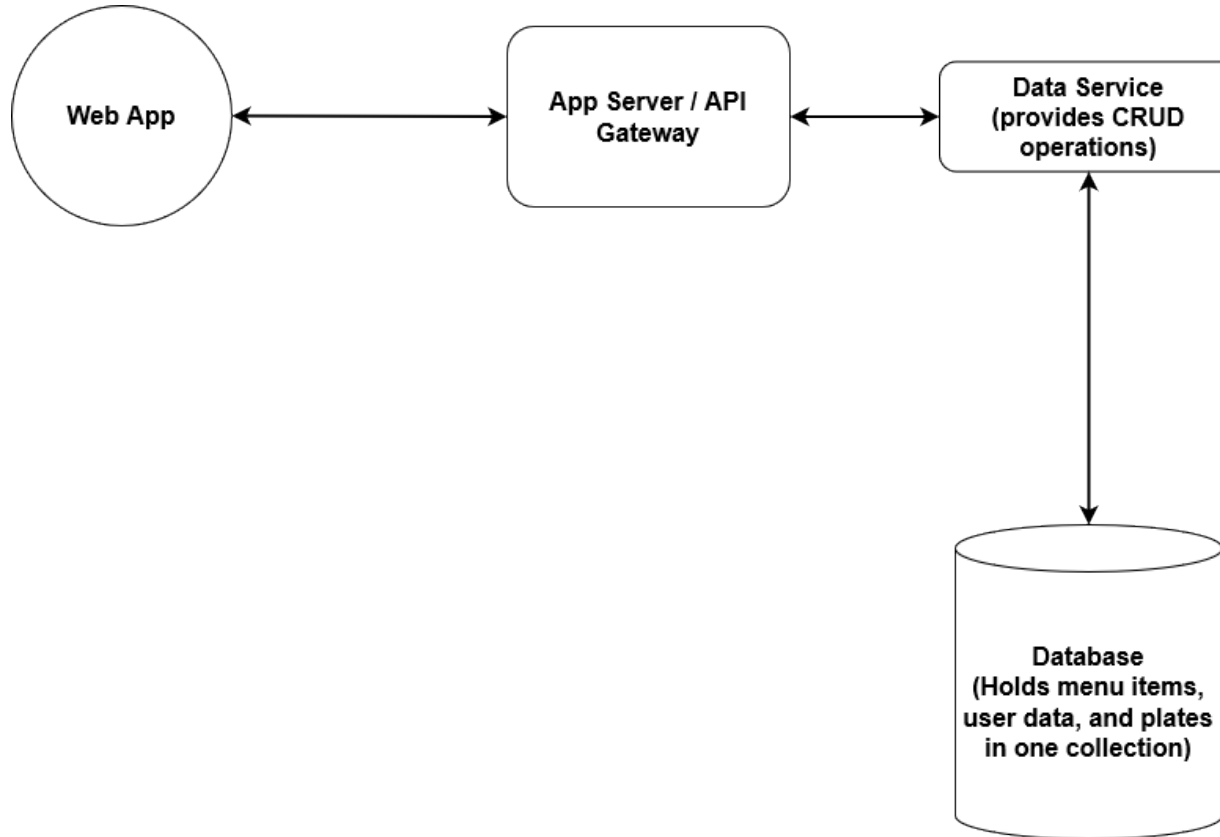
User Story:

As an older professor at UNH who has never used the dining halls before, I want to be able to plan out my meals to lessen the time on my feet with a friendly UI experience while also meeting my dietary standards.

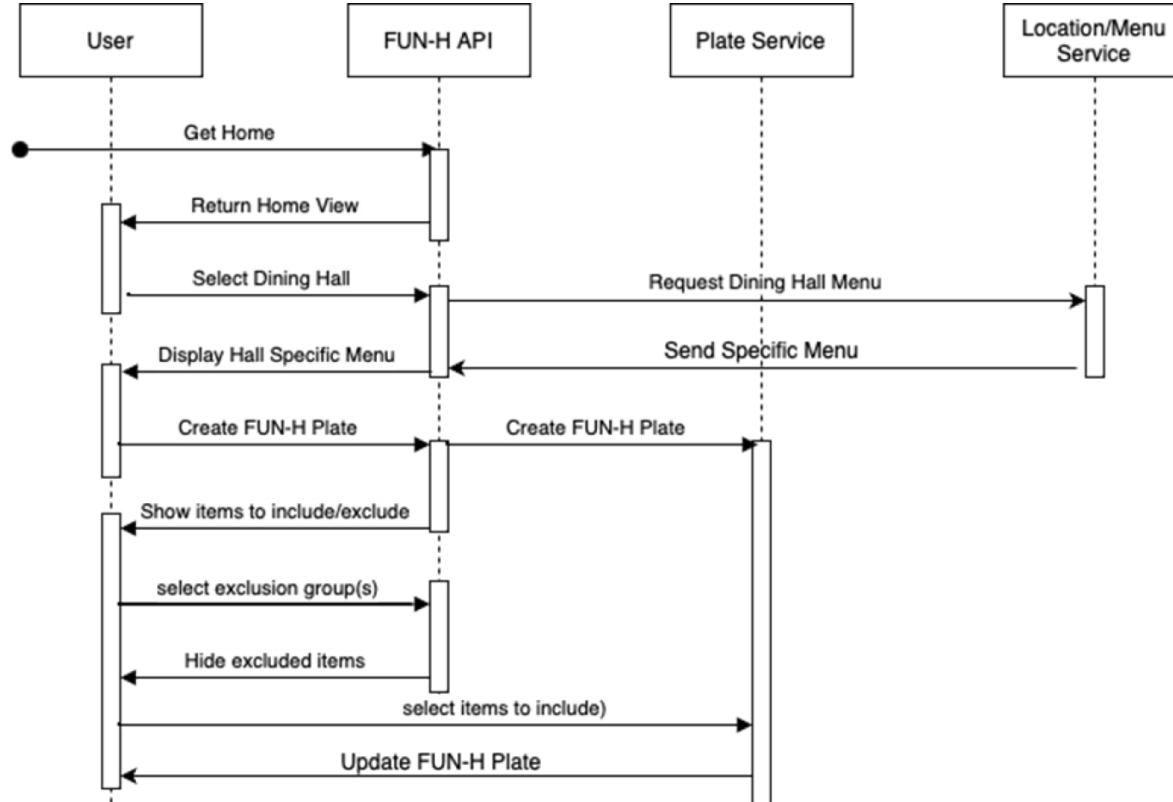
Quality Attributes

- **Usability**
 - Clean and easy to use UI and UX
- **Security**
 - Creates accounts using authentication. Passwords are encrypted on the backend
- **Reliability**
 - System has error checks in place to make sure system performs consistently and does its intended function
- **Maintainability**
 - Can easily update system overtime.
 - Ex: Central CSS file and Central html file for the navigation bar so they don't have to be updated for every separate file

Architectural Diagram



Sequential Diagram / API Specifications



Testing

- **Feature Testing / Interaction Testing**
 - Make sure feature is implemented as expected. Interaction tests
- **Unit Testing**
 - Test individual components. Usually done on CRUD operations in Data Service
- **User Testing**
 - Test usefulness & usability. We would mimic users when using our webapp
- **System Testing**
 - Test entire system. A lot of tedious manual testing and making sure web app is working properly through the eyes of the user

Phase 5

- **Goals / Status**
 - Prioritized and completed implementing update records, delete records, and user authentication



Branding



"Logo for FUN-H"

FUN-H hopes to push across the message that UNH your health is just as important as academics.

Through our branding, we incorporate the widely-known UNH main logo, with the 4 colors representing the Wildcat Plate food groups.



Fruits
#d71d25



Grains
#e26f1f



Vegetable
#72b744



Proteins
#5c4690



UNH Blue
#003591

Slogan:

"Find a healthier self with FUN-H"

Features



Create a Wildcat Plate

View daily dining hall menus
(Philly / HoCo)

Choose from menu to meet
nutrition goals (Ex: Fruits,
Vegetables, Grains, Protein)

Save your created Wildcat Plates
for access at later time through
custom authentication



Demonstration

Everybody, go to [<http://20.241.139.241:5000/>]

Pick what you are going to eat after this presentation, I know you all are hungry.

Make a plate. Make sure to follow the Wildcat Plate standards! After creating your plate, it will be added to view under your account.

Use this feature to remember your own plates for future use!

Enjoy **YOUR** delicious meal!

Conclusion

End Goal:

- Receive feedback from 5 users related to the performance of the FUN-H application
- Have 50 Wildcat Plates created on FUN-H by May 5th, 2023.
- See a 10% returning user rate on the FUN-H platform.

Future Work:

FUN-H is still in the early days of development and aspiration, we aim to implement the following:

- Allergen information
- Protein, Calorie, Fat values per item
- Location of foods specific to dining halls
- Dining hall speciality days

Reflection

Front End:

- Branding and creating an “image” for a product
- Graphic Design / GIMP
- Understanding the target audience
- HTML / Website Engineering
- CSS
- JavaScript
- Presentation skills



Back End:

- Flask implementation
- MongoDB and Pymongo
- Docker
- Azure
- Python





Thank you for listening!

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Questions?