



# Knight Foundation School of Computing and Information Sciences (KFSCIS)

## Fall 2023 Senior Design Project



# YUM FIU

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### PROBLEM

FIU Embrace, backed by the university, is dedicated to promoting research incentives and encouraging collaboration throughout the institution. The goal is to create data-driven solutions catering to differently abled adults and students. Given the sizable student population at FIU, those with different abilities often encounter difficulties accessing crowded campus restaurants and utilizing services. To address this, our Purchase Order (PO) is on the lookout for a delivery app that allows Embrace students to conveniently order food, with delivery handled by Embrace employees.

- This app could also potentially serve as FIU's own delivery app for FIU restaurants and the entire student body in future, potentially expanding to products on campus as well

### SUMMARY

The Project currently includes developing accessibility features, core logic, front-end engineering, and the utilization of restaurant data for the application's future iterations.

- #### Key Features

  - Delivery vs pickup toggle
    - Filter bar
    - Bottom header
  - Menu item checkboxes
  - Shell and design for both main screens
  - Nextcloud integration
- #### Next Steps

  - Create account creation with FIU authentication
  - Transfer order data to delivery tagged users from FIU Embrace
  - Food Court Filters to determine available FIU restaurants

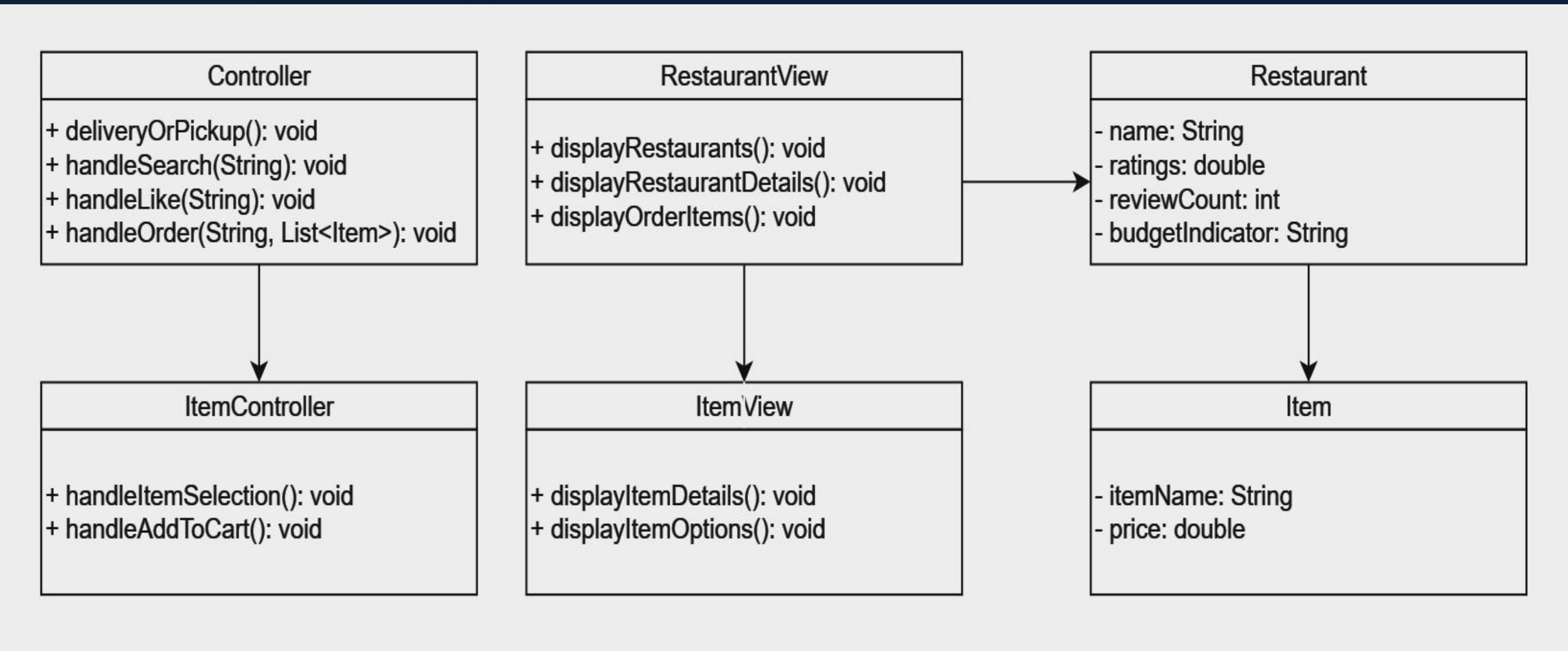
### REQUIREMENTS

- Mac Computer
- Latest version of Xcode, MacOS, and IOS
  - Node v18.17.1 or newer
  - Git / Github



### TECHNOLOGIES

| React Native || JavaScript || Expo || Redux ||  
Yelp API || Google Places API || Nextcloud |



### YELP API

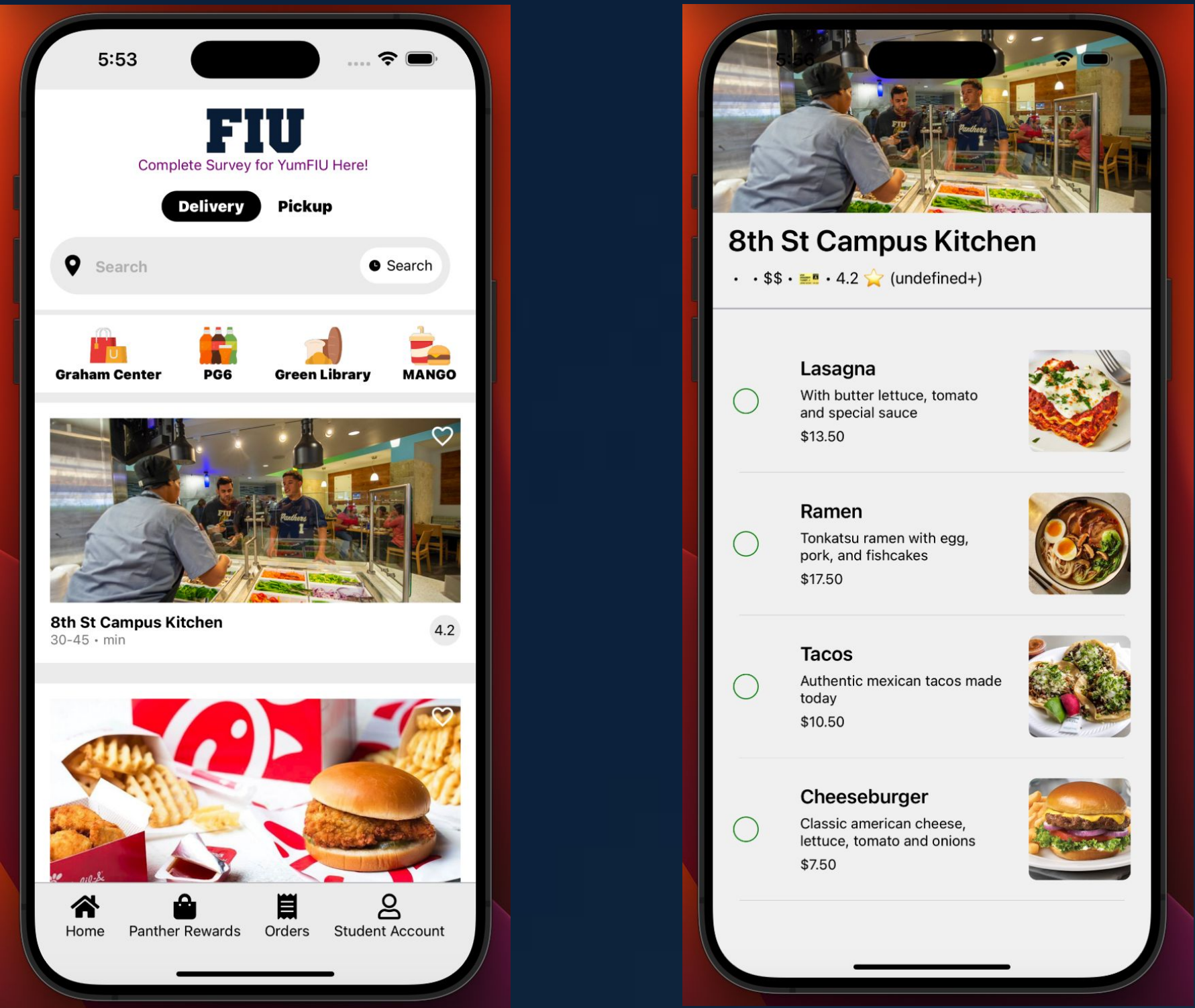
Restaurant Discovery and Details: The app leverages Yelp's business search and business details endpoints to identify FIU-based restaurants and provide users with detailed information such as:

- Addresses
- Descriptions
  - Menus
  - Reviews

Restaurant Visualization: The app integrates Yelp's photo collection to showcase restaurant interiors and exteriors, ensuring a smooth and convenient dining experience.

### VERIFICATION

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| System Test Case: | Yelp Images Populating Home Page                              |
| User Story:       | Display Restaurant Images on Homepage                         |
| Purpose           | Allowing users to visualize the chosen restaurant on homepage |
| Pre-Conditions    | Open the Yum FIU app and choose either delivery or pickup     |
| Expected Results  | Users should be able to see FIU restaurant images on campus   |
| Actual Results    | Users should be able to see FIU restaurant images on campus   |
| Status            | Pass                                                          |

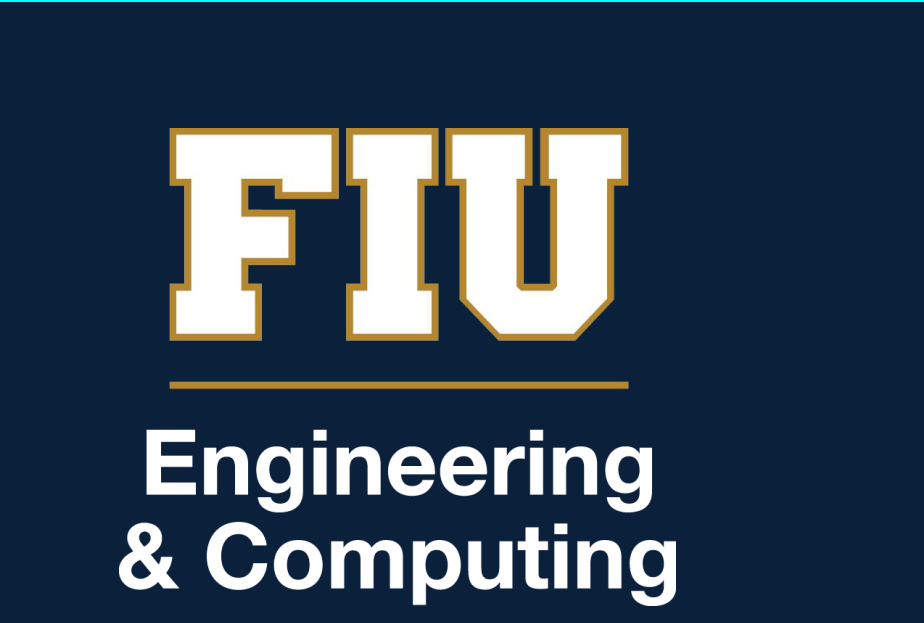


### SCREENSHOTS

### CURRENT SYSTEM

Right now, there's no existing application for this service. We're initiating a multi-semester project aimed at jumpstarting this initiative and establishing the blueprint for the design.

This currently includes developing accessibility features, core logic, front-end engineering, and the utilization of restaurant data for the application's future iterations.



### ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by the FIU Embrace office. We/I thank Michael Mullin for his assistance and mentorship that I/we received throughout the senior design project.