



# Knight Foundation School of Computing and Information Sciences

Fall 2023 Senior Design Project

FIU Embrace | Center for Advancing Inclusive Communities

PROBLEM

- FIU Embrace is a university supported center focusing to establish research incentives and foster collaboration across the university to develop data-driven solutions for differently abled adults and students. With FIU being such a large school with a substantial student population, differently abled students find it hard to enter crowded campus restaurants to order food and utilize services. Our PO is seeking a delivery app for Embrace students to order food and get orders delivered by Embrace employees
- This app could also potentially serve as FIU’s own pickup and delivery food app for FIU restaurants and the entire student body in future iterations

TECHNOLOGIES

- React Native and JavaScript
- Expo
- Redux
- Yelp API
- Google Places API



VERIFICATION

| System Test Case: Campus Building Filter                                                          |                                                                         |  |  |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--|--|
| User Story: Filter resturants by FIU building                                                     |                                                                         |  |  |
| Purpose: Implement horizontal sliding bar with FIU buildings to allow users to filter restaraunts |                                                                         |  |  |
| Pre-Conditions                                                                                    | Open the YumFIU app and choose either delivery or pickup                |  |  |
| Expected Results                                                                                  | User should be able to filter for restaurants on campus by FIU building |  |  |
| Actual Result                                                                                     | User should be able to filter for restaurants on campus by FIU building |  |  |
| Status                                                                                            | Pass                                                                    |  |  |

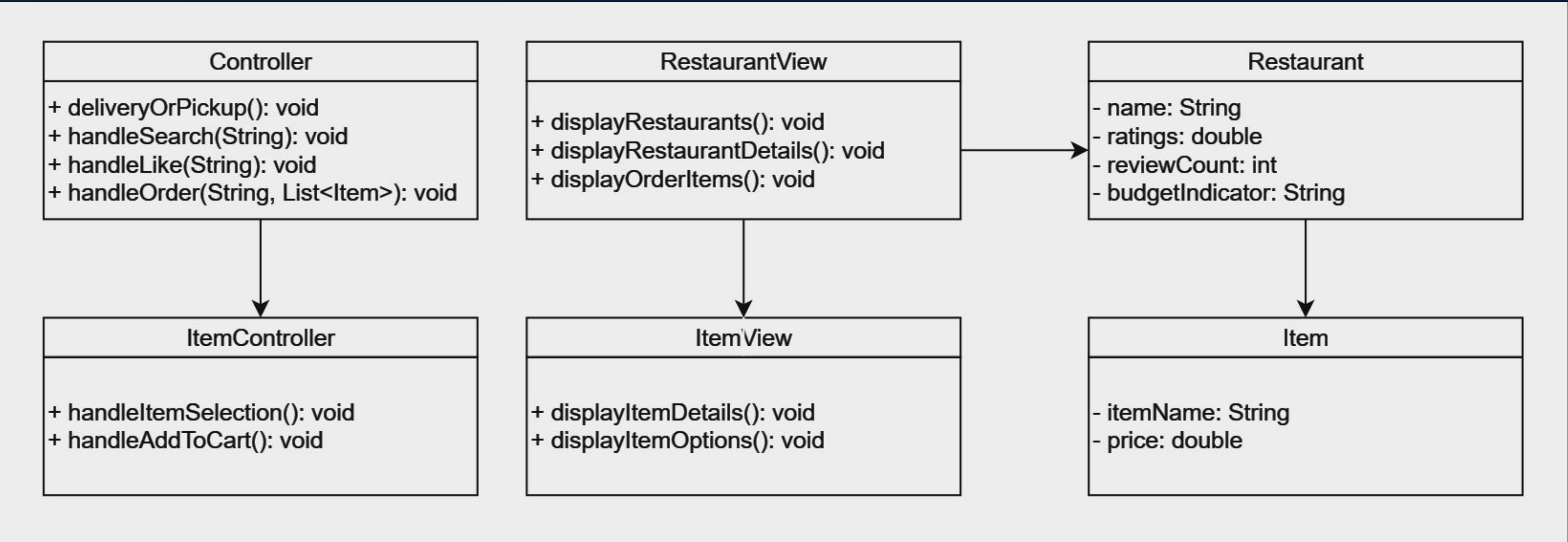
YumFIU

Student: Mohammad Qureshi  
Product Owner: Michael Mullin, Florida International University, FIU Embrace  
Instructor: Dr. Masoud Sadjadi, Florida International University

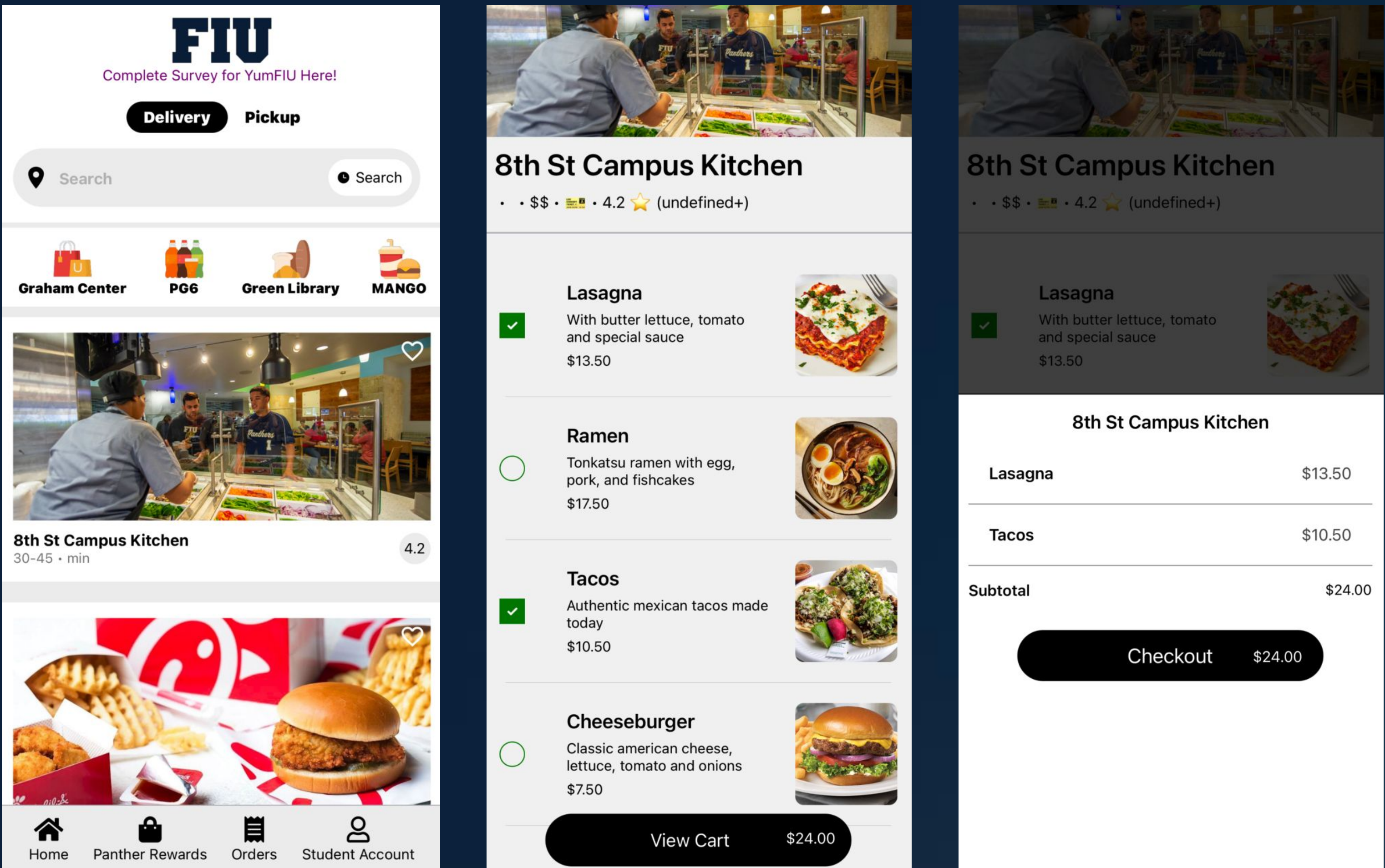
CURRENT SYSTEM

- There is currently no application in place for this service
- This will be the start of a multiple semester long project, meant to kickstart this initiative and create the template for the design, accessibility functions, core logic, front-end engineering, and restaurant data utilization for the application moving forward

SYSTEM DESIGN



SCREENSHOTS



REQUIREMENTS

- Mac Computer
- Latest version of Xcode, MacOS, and iOS SDK
- Node v18.17.1 or newer
- Git



NEXTCLOUD INTEGRATION

- The YumFIU app includes a survey to verify the accessibility of the application for differently abled FIU Embrace students
- Survey results from the app are automatically sent to and then stored on Nextcloud and include the ability to analyze results, satisfying the NextCloud integration requirement



SUMMARY

- The YumFIU app now has a delivery vs pickup toggle, filter bar, bottom header, menu item checkboxes, and the shell and design for both main screens, as well as nextcloud integration
- The application was successfully constructed to be passed on next semester as a brand new system with the user side completed
- Next semester, capstone students will be able to only focus on account creation with FIU authentication, and the transfer of order data to delivery tagged users from FIU Embrace

ACKNOWLEDGEMENT

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