Proposal

UHUNGRY?

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Submitted in partial fulfillment

Of the requirements of CSC-431

Software Engineering course project

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# Preface

This is a proposal for the UHUNGRY? project for partial fulfillment of the requirements of a Software Engineering course (CSC431) project in the department of Computer Science at the University of Miami.

This proposal provides the scope and context of the project to be undertaken. It details the intended user group and the value that the system will have to them.

The intended audience of this document is the course professor and teaching assistants so that they can determine whether the project should be approved as proposed, approved with modifications, or not approved.

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# Overview

## Purpose, Scope and Objectives

The purpose of this project is to create a mobile application meant to alert students of waiting times and human traffic on a university campus. Using this application, students will be able to post and view the demand of restaurants, cafeterias, food trucks, bars, and any other campus related food services. Through this mobile application students will be able to dine on campus much more efficiently as the wait for lines has been eliminated or greatly reduced.

UHUNGRY? will be accessible to students who have access to a smartphone. Users will need an internet connection in order to use the features on the mobile application. The software will consist of the application that can be downloaded via iOS or Android. UHUNGRY? will be launched at the University of Miami but will grow to many other campuses across the United States.

## Project description

The proposed application will solve the issue of unexpected waiting times when students go to get food or drinks on campus. It will allow students to better manage their time in between classes as they can find the quickest option for dining. Users will be able to look at a map with pinned locations of food services. When selected, these pinned locations will display the name, waiting time, and description. Users will also be able to report the waiting time to update it on a regular basis. This map will either be used from Apple maps or Google maps, being able to zoom in and zoom out to give it a smooth feel. Another feature will be a scroll list with all food places with their name and waiting time is displayed. Users can sort the food places by quickest waiting time, food type, closest to me, etc. A miscellaneous button will be provided for users to self-report a new food service on campus.

**Feature overview:**

* University selection page
  + This will be the first page the user is prompted with.
  + Logo and a simple drop-down menu will be provided
  + User must select a university from a drop-down tab
* Campus map tab
  + Powered by either Apple or Google maps
  + Pins or Icons that represent certain food locations on the map
    - Implemented from scratch
    - Names and Time will be included in these pins
  + User will have the option to report waiting times
* Scroll down list
  + Will display campus food services and their waiting times
  + Scroll down list will be implemented from scratch
  + Sortable tab
    - Waiting time
    - Food type
    - Closest to me
* Miscellaneous tab
  + User survey form to add temporary food services
    - Name
    - Location
    - Type of food
    - Hours
  + Survey will must be approved before posting for integrity purposes
  + Implemented from scratch
* Settings tab
  + Implemented from scratch
  + Will provide display settings, version history, terms and services, and an about tab.