



Ronald Vera | Patrick Johnston | Carlos Carpio

CSC431 INTRODUCTION TO SOFTWARE ENGINEERING

TRUCK MUCK



We are Truck Muck

THE PROBLEM

We here in Truck Muck love food trucks. But the same thing that makes them so great is the same thing that makes them a real drag. Their mobility makes it so that you can enjoy them when you're out in the park, need a break from same food spots near campus, or when you're at an outdoor event. But you never know for sure if they're coming. Or if they're parked in a different location. What if you just missed them? Wouldn't it have been great to be notified they were near the vicinity? What if you're in a new area and want to try different cuisine on the go? Wouldn't you give anything to be able to see what food trucks are around?

WE ARE THE SOLUTION

Our goal is to deliver a mobile app to find food trucks near your vicinity using GPS that also provides a menu, and the ability to place orders for pick-up. This product is for the foodie that quickly and efficiently want to locate various food trucks in the area. It will be a sleek user-friendly interface with reviews from other users, a calendar with your favorite food trucks schedule and listing of any food truck events. This app will serve everyone from students, people looking where to have lunch break at work, or people out in the evening with friends.

We will launch on iOS and eventually port it to Android and Windows. Devices will need GPS for its main functionality.



Functional Requirements

LOGIN

User/Vendor can login or create an account

CREATE ACCOUNT

New users will be able to create an account to access our services. Can choose to link with SSO or create with username, password and email



TRUCK MUCK



Non-Functional Requirements

ALERTS AND NOTIFICATIONS

Users may receive notifications when a favorited food truck is in their area, after the user has made a payment, or updates regarding the Food Preparation Tracker.

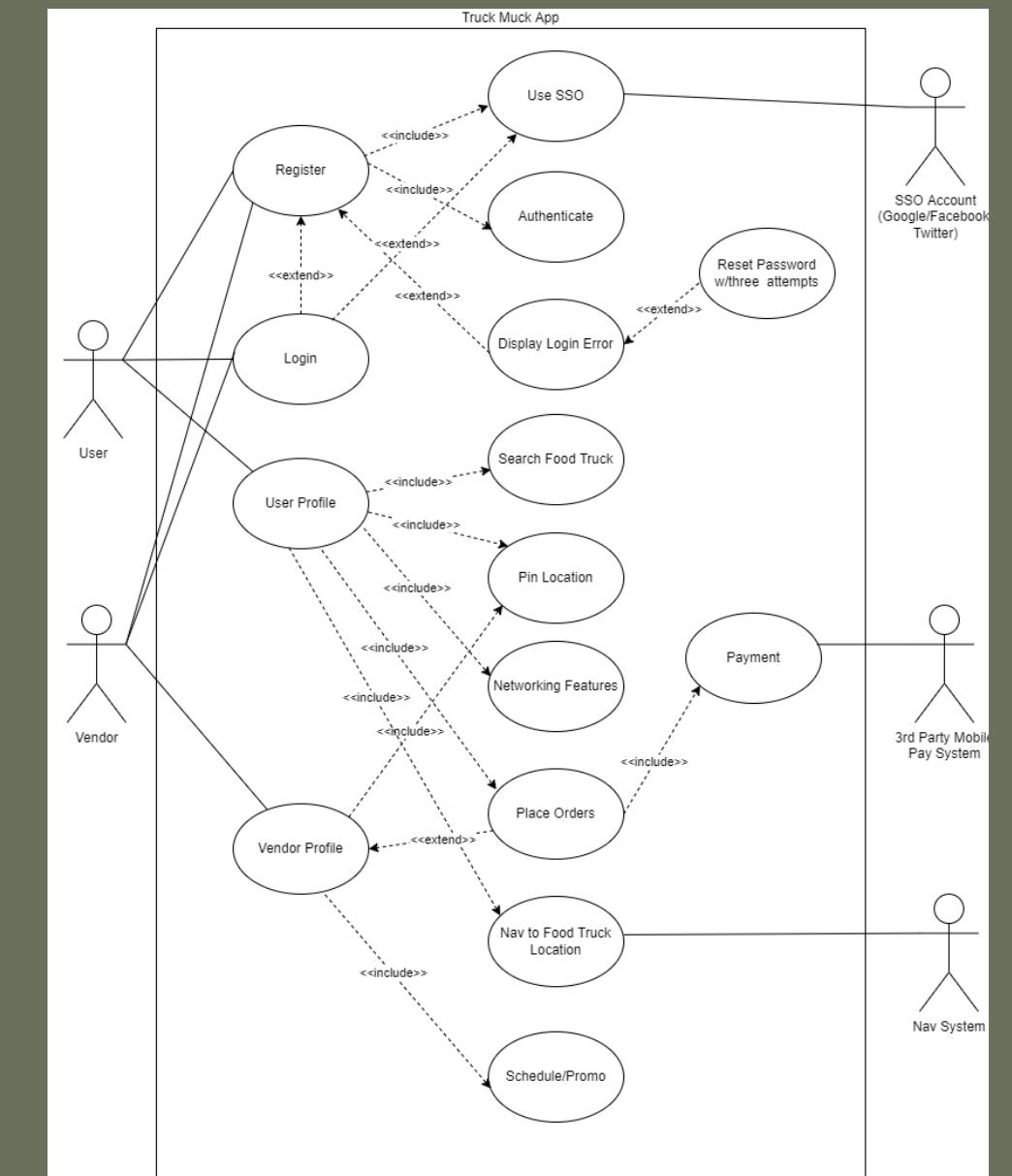
FOOD PREPARATION TRACKER

Tracks how long your order will take to be ready.



TRUCK MUCK

UML USE CASE DIAGRAM



TRUCK MUCK

SYSTEM CONSTRAINTS

TOOL AND LANGUAGE CONSTRAINTS

*MOBILE APPLICATION FRAMEWORK CONSTRAINT

Vapor will be used as the framework for the backend

*SWIFT AND XCODE CONSTRAINT

Swift will be used as the main frontend and backend language.
User interface will be made on XCode via Swift.

*MYSQL CONSTRAINT

MySQL will be used in the backend for databasing



SYSTEM CONSTRAINTS

HARDWARE AND NETWORKING CONSTRAINTS

*STORAGE CONSTRAINT

Location tracking constraints is put in place as to give location of food truck and customers through pinpointing location.

*IOS OPERATING SYSTEM CONSTRAINT

iOS must be run on mobile phone on customer and vendors device in order to allow to run and use app.

*IPHONE CONSTRAINT

Iphone must be used to run iOS in order to not run into cross compatibility problems and run in native swift language.

SYSTEM CONSTRAINTS

HARDWARE, DEPLOYMENT, BUDGET AND TRANSITION CONSTRAINTS

*COMPUTING CONSTRAINT

Amazon Lightsail will be used to store database data and for the application to be computed

*TRUCK AND USER IN SAME APP CONSTRAINT

Vendor and Customer will both be using the same base App but with different usability for each.

*GITHUB AND LIGHTSAIL CONSTRAINT

Github will be used as the repository to store application code and Lightsail to compute code

*BUDGET CONSTRAINT

Budget will be \$0 as Lightsail is free for the first month

THAT'S ALL
Questions?



TRUCK MUCK