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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.



Make Friends with the same Taste

TASTE PROFILE

List your preferences in food and share your favorite food trucks on your profile. This won't just help us in finding and suggesting other food trucks to your liking but others can decide whether your feedback is in line with theirs. If you agree and really like what another user has to say, you can follow them which with a follow-back will open up direct messages with one another. We at Truck Muck believe food trucks is a social gathering event where the food tastes better when you vibe with others.

SERVING THE COMMUNITY

Get Notified when your favorite food truck is nearby or any event they might be a part of. Engage with others while you support your local small business owners. Peruse the offering of other trucks while you hang out with friends in an outdoor environment and be comfortable in a casual atmosphere there is nothing formal about Truck Muck. Make a connection with locals over a flaming hot spicy burrito or a slow-cooked smokey bar-b-q brisket. Be a part of something homegrown and experience what your city has to offer.



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

GPS FUNCTIONALITY

Users can view food trucks near them, open GPS navigation system to take them to food trucks.
Vendors can pin their locations

HOME PAGE

Homepage will include participating food trucks, deals, and the ability to login or create an account

USER PROFILE

Users can setup their profile with fields in which they can enter personal information. (Ex. location, name...) and they will also have options to choose which type of food preferences they have(Ex. Hispanic food, American Food...)

VENDOR PROFILE

Upload promotional ads and videos. Comment on user reviews.
Upload menu with ingredients to prevent any allergic reactions
Schedule specials of the week or events food truck is participating in



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Functional and Evolutionary Requirements

VENDOR MENU AND ORDERING OPTIONS

View food truck menus and ability to order food and pay for pick up at their location.

PAYMENT OPTIONS

User can choose to pay through mobile pay options like apple pay, google pay, venmo, cash app, paypal. Main in app purchases will use stripe API. Option to leave a tip and user receives an email with receipt.

DATABASE

MySQL will be used for our database needs. User/Vendor data will need to be stored and be safely encrypted.

EVOLUTIONARY REQUIREMENT

Eventual plans to integrate into android after a success soft launch.



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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.

SEARCH FILTERS

Filter by food type, distance, food allergies, price, or rating.

REVIEW/RATING SYSTEM

Users can rate the food and leave a review for the vendors profile page. Other users will be able to comment on a review as well as the vendor to address any concerns or thank their patrons.

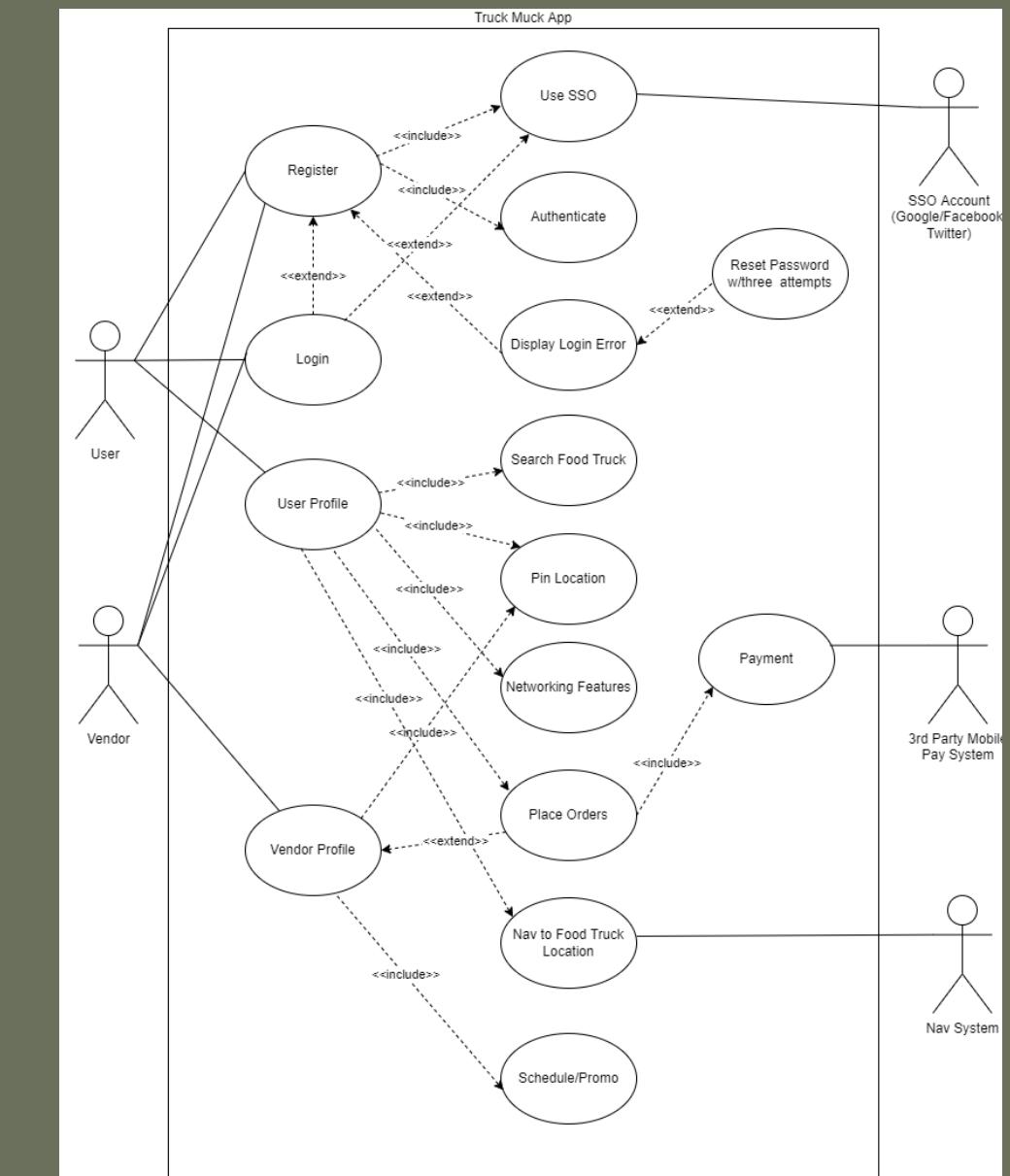
SOCIAL FEATURES

Ability to follow others and message those that follow you back.



TRUCK MUCK

UML USE CASE DIAGRAM



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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

*LOCATION TRACKING 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?



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