

## CS 4720 - S17 - Final Project Proposal

Device Name: Murkrow

Platform: Android

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Computing ID: syc5pg

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Computing ID: cmf3ap

App Name: HooWantsBrunch

### Project Description:

Our app, HooWantsBrunch, would allow UVA students to find and review local restaurants offering brunch. Brunching is a huge part of student culture, as it allows us to get good breakfast food while also allowing us to sleep in after a long night of festivities. Providing an app with a comprehensive list of brunch options in Charlottesville will help students branch out from Pigeon Hole and explore more of the town we call home. HooWantsBrunch will allow students to post their own reviews about their brunching experience so that potential brunchers can get an idea of what they can expect from a given restaurant. In addition to finding and reviewing restaurants, users can use the app to reach out to friends to suggest getting brunch.

Our goal is to create an app that will do the following:

- The system will allow the user to create a profile using their computing ID, name, and phone number.
- The system will allow the user to see where the restaurant location
- The system will allow the user to post reviews of their brunching experience.
- The system will also pull ratings and reviews of the restaurants from websites like Yelp and Google Reviews.
- The system will also allow users to message their contacts to suggest brunch spots.

We plan to incorporate the following features:

- Camera - A student can take pictures of the food and post them in the review.
- GPS - The app would be able to show the proximity of the user to brunch locations.
- Build and consume your own web service using a third-party platform - We will use Firebase as our database backend for the system and to exist as an online version of our app.
- Consume a pre-built web service - We will pull brunch locations off of <https://www.visitcharlottesville.org/visitors/restaurants/brunch/>, and reviews from Yelp and Google Reviews.
- Data storage using key/value pair storage - The student's computing ID, phone number, and other identifying information will be stored on the app.
- Open shared activity / features - The student can pull their contacts and message users that they know within the app.

### Wireframe Description:

Our app opens to the login screen. Users who already have an account input their UVA computing ID and password and continue onto the main app. If they have forgotten their password, they press the “forgot password” button, taking them to the “forgot password” screen, where they can input their computing ID. This screen can be exited out of by pressing the cancel button in the left-hand corner. Pressing the “send new password” button will send the user a new password to their UVA email account. New users press the “register” button on the login screen, allowing them to make a new account by inputting their name, computing ID, and a password of their choice. We chose to require a UVA computing ID to ensure that only members of the UVA community can use the app.

Once the user is logged in, the first page they see is the Restaurants page, which is a list of the Charlottesville restaurants. On the bottom of the page are three tab buttons, which are the three main screens: Restaurants, Find Brunchers, and My Profile. If they click on the restaurant, they can see a list of reviews of the restaurant, both from other HooWantsBrunch users and from Yelp/Google Reviews. If the user presses the location button, a map will pop up with the location of the restaurant, which also displays where the user is in relation to it. The user can also add a review of the restaurant.

Clicking the “Find Brunchers” tab brings the user to a screen that allows them to send a quick text message to one of their phone’s contacts. The user chooses a contact from the dropdown menu, writes a text message inviting a friend to go to brunch, and then presses the “Send Message” button to send the message. Pressing the “Clear all fields” button erases the written message and clears the chosen contact.

Clicking on the My Profile tab will bring the user to his/her own profile, which will have the user’s current profile picture, name, computing ID, and a list of the reviews he/she has posted in the past. Pressing the edit button in the right hand corner will lead the user to an Edit Profile page, where they can upload a new photo, change their name, and/or change their password. However, they cannot change their computing ID.