

Team 20: NomNoms Project Backlog

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Problem Statement

Many friend groups and couples have difficulty deciding where to spend time together, especially college friends reuniting during breaks. Disagreements in eating choices can lead to indecisiveness, unnecessary tension, and ultimately a waste of time, which our app aims to reduce or eliminate by aggregating the group's preferences and selecting an "optimal" restaurant nearby for them based on geolocation and group member preferences.

Background Information

Audience:

With hundreds or thousands of restaurants per city, friend groups or couples often need help deciding when and where to eat. Our app aims to help couples and friend groups choose their eating preferences efficiently in a way that everyone feels heard. We intend to use a gamified and playful UI to appeal to teens and young adults seeking to spice up their culinary experience.

Similar apps include Restaurant Roulette; though Restaurant Roulette is also able to select a restaurant based on a user preference, it is aimed at one person. Google Maps can locate nearby restaurants of a specific type of cuisine, but for an indecisive friend group, it can be difficult to choose a type of cuisine in the first place. Our app will allow members to pick their cuisine and location preferences and join a group with their friends in order to generate an "optimal" restaurant.

Similar Platforms:

Similar existing services include Restaurant Roulette; though Restaurant Roulette is also able to select a restaurant based on a user preference, it is aimed at one person. In addition, Google Maps can locate nearby restaurants of a specific type of cuisine.

Limitations:

Similar platforms focus on individual preferences and do not let people interact with one another to reach a decision on a place to go to. Our app will allow members to pick their cuisine preferences and decide as a group on an "optimal" restaurant.

Requirements (Backlog)

Functional Requirements

Nomsters' Terminology:

Nomster: a user of the app

Table: a group of 2+ users

Authentication

- 1) As a Nomster, I would like to create an account using email/password.
- 2) As a Nomster, I would like to create an account using various social platforms (Google, Facebook, etc)
- 3) As a Nomster, I would like to use NomNoms as a guest.
- 4) As a Nomster, I would like to easily access NomNoms across any device.
- 5) As a Nomster, I would like to log in to my NomNoms account with my email ID and password.
- 6) As a Nomster, I would like to *log in* to my NomNoms account with various social media platforms, such as Facebook or Instagram.
- 7) As a Nomster, I would like to add social authentication to an existing Email/Password account or vice-versa.
- 8) As a Nomster, I would like to be able to use the default username NomNoms provides.
- 9) As a Nomster, I would like to be able to reset my password in case I forget my password.
- 10) As a Nomster, I would like to have a code sent to my phone/email if I want to reset my password (*if time permits*).
- 11) As a Nomster, I would like to be able to change my password if I want to, by reconfirming my current password.
- 12) As a Nomster, I would like to delete my account if I no longer want to keep the account or if I want to delete and create a new account for any reason.
- 13) As a Nomster, I would like to ensure my data is purged from NomNoms upon account deletion.

Tables

- 14) As a Nomster, I would like to be able to make a Table.
- 15) As a Nomster, I would like to receive a join link or code after I make a Table.
- 16) As a Nomster, I would like to be given the option to share this link or code by copying it to my clipboard.
- 17) As a Nomster, I would like to join my friends' Tables via a link or a code.
- 18) As a Nomster group leader, I would like to be able to enter a general location (preferably zip code or any other method) to find restaurants nearby to myself and my table.

- 19) As a Nomster group leader, I would like to be able to set a marker on the map and then select a radius to set the location of where restaurants will be recommended (*if time permits*).
- 20) As a Nomster, I would like to be able to see the locations of proposed restaurants on an embedded map (*if time permits*).
- 21) As a Nomster user, I would like to have a default radius set; however, if the radius is too small and does not show any restaurants that fit my preferences, I would like to be notified of this situation (*if time permits*).
- 22) As a Nomster user, I would like to see markers or pins on the map for each restaurant (*if time permits*).
- 23) As a Nomster user, I would like to be able to click on each pin and receive information on the restaurant (*if time permits*).
- 24) As a Nomster, I would like to receive information on the number of reviews of a restaurant.
- 25) As a Nomster, I would like to view the menu of a restaurant easily
- 26) As a Nomster, I would like to see what cuisines a restaurant has
- 27) As a Nomster, I would like to see the price point of a restaurant
- 28) As a Nomster, I would like to see the hours of a restaurant easily.
- 29) As a Nomster, I would have an easy ability to view some images of the food available at a restaurant.
- 30) As a Nomster, I would like to be able to be redirected to the restaurant's official page if I want to make a reservation or get more information (*if time permits*).
- 31) As a Nomster, I would like to be able to be redirected to the appropriate service to receive directions to the restaurant (*if time permits*).
- 32) As a Nomster, I would like to have a pin that has the time that it takes to go to the restaurant written on the pin (*if time permits*).
- 33) As a Nomster, I would like to change the group leader to a different Nomster member in my Table if necessary.
- 34) As a Nomster leader, if I log out or disconnect, another user should automatically be set to the group leader.
- 35) As a Nomster, I would like to be able to easily view cuisines to choose from.
- 36) As a Nomster, I would like to be able to select cuisines to add to my preferences.
- 37) As a Nomster, I would like to be able to like restaurants and save them as I prefer (*if time permits*).
- 38) As a Nomster, I would like to select the price range for the restaurant.
- 39) As a Nomster, if I have an account, I would like to have my restaurant preferences remembered.
- 40) As a Nomster, I would like to have my restaurant preferences easily viewed by formatting them in a list.
- 41) As a Nomster, I would like to have my restaurant preferences easily rearranged/edited.

- 42) As a Nomster, I would like to temporarily disable certain preferences if I am not in the mood for that type of cuisine.
- 43) As a Nomster, I would like my proposed cuisines updated when certain preferences are disabled.
- 44) As a Nomster, I would like to easily view the various parameters for restaurant preferences, such as price or restaurant rating.
- 45) As a Nomster, I would like to easily select and change which parameters I want to keep to get restaurant choices.
- 46) As a Nomster, I would like to be able to join multiple tables.
- 47) As a Nomster, I would like to leave tables.
- 48) As a Nomster, I would like to have my options saved if I leave the table and rejoin (*if time permits*).
- 49) As a Nomster, I would like to be able to log out of my account from this page.

Restaurant List

- 50) As a Nomster, I would like to swipe left or right, or pick yes and no on each restaurant, i.e., a UI screen similar to tinder or dating applications.
- 51) As a Nomster, I would like to be able to view the restaurants in a specific order based on reviews.
- 52) As a Nomster, I would like to be able to view the restaurants in a specific order based on prices from low to high.
- 53) As a Nomster, I would like to be able to view the restaurants in a specific order based on prices from high to low.
- 54) As a Nomster, I would like to be able to view the restaurants in a specific order lexicographically.
- 55) As a Nomster, I would like to be able to view the restaurants in a specific order based on proximity.
- 56) As a Nomster, I would like to be able to rank the restaurants I swipe right on so I can have ordered preferences.
- 57) As a Nomster, if I am not happy with my restaurant choices, I would like to be able to reshuffle them or go back to the page where I can select my preferences.
- 58) As a Nomster, if I do not want to select any preferences or go through the process of swiping, I would like to be able to select a restaurant randomly.
- 59) As a Nomster, I would like to have the option of choosing how I want my restaurant preferences to be ordered (i.e. from lowest to highest prices or best rated to worst rated).

Miscellaneous

- 60) As a Nomster, if I accidentally log out of a room or disconnect, I should be able to reconnect to the page I left off at and have my selections saved (*if time permits*).

- 61) As a Nomster, I would like to be able to see what my friends have selected for their restaurants at the end *(if time permits)*.
- 62) As a Nomster, I would like to have the option to enter my own location to help with location optimization *(if time permits)*.
- 63) As a Nomster, I would like to see the highest ratings/highest reviewed restaurants out of the aggregated preferences.
- 64) As a Nomster, I would like to be able to randomly select a restaurant out of all the Table choices of my friends if there is no intersection.
- 65) As a Nomster, I would like to have a feature where I can randomly select a restaurant for the individual instead of having everyone swipe through options.
- 66) As a table, instead of swiping through options, I would like to be able to select a random restaurant for the group based on the original filters applied.
- 67) As a Nomster, if I am in a small group and everyone has a varied selection, I should still be able to receive a recommendation for a restaurant from the application side at the end.
- 68) As a Nomster, I would like to change the color of the app to customize it according to my preferences *(if time permits)*.
- 69) As a Nomster, I would like to have the option of using the app for myself and be able to find restaurants as the only member in a room.
- 70) As a Nomster, I would like to be able to search for other users on the app *(if time permits)*.
- 71) As a Nomster, I would like to be able to add friends to the app *(if time permits)*.
- 72) As a Nomster, I would like to be able to search for specific restaurants *(if time permits)*.
- 73) As a Nomster, I would like to be able to add a restaurant that is not shown on my table irrespective of its location *(if time permits)*.
- 74) As a Nomster, I would like to see a rating system for restaurants *(if time permits)*.
- 75) As a Nomster, I would like to be able to rate restaurants *(if time permits)*.
- 76) As a Nomster, I would like to see if my friends have also rated a restaurant *(if time permits)*.
- 77) As a Nomster, I would like to be able to review restaurants *(if time permits)*.
- 78) As a Nomster, I would like to be able to read other reviews from other Nomsters or my friends *(if time permits)*.
- 79) As a Nomster, I would like to set a date on a calendar for what date people want to meet *(if time permits)*.
- 80) As a Nomster, I would like to pick a time for what time people want to meet *(if time permits)*.
- 81) As Nomster Group Leader, I would like to be able to create a poll if I would like the whole group involved in the selection process for a location and the app chooses the majority *(if time permits)*.
- 82) As a Nomster, I would like to be able to change my profile icon or choose from a preset of NomNoms icons *(if time permits)*.

- 83) As a Nomster, I would like to be able to copy and share the event including the date, time, and restaurant chosen after the restaurant has been picked at the very end (*if time permits*).
- 84) As a Nomster, I would like the event including date, time, and location to be integrated into google calendar or any other calendar service (*if time permits*).

Non-Functional Requirements

- 1) Physical Limits
 - a) Free Limits of Firebase - Must optimize the app to comply with these guidelines
 - i) 50k Monthly Active Authenticated Users
 - ii) 5 GB Cloud Storage (Cached Yelp API Data Basically)
 - iii) 1 GB Firestore Data (Table Data)
- 2) Scalability
 - a) Potentially have a maximum of a couple of hundred users per table
 - b) Allow users to join via a share link that has a room token as a suffix
 - c) Rooms will be deleted within 24 hours of inactivity (may be reduced if we get more users)
- 3) Security
 - a) User authentication handled by Firebase Authentication
 - b) Get the minimum amount of data needed from the user to keep the app functioning and store that data in Firebase Cloud Storage
- 4) Usability
 - a) The app should be inclusive of all popular viewport sizes (Desktop, Tablet, Mobile)
 - b) UI should be consistent (for the most part) across all popular viewport sizes