

## Stakeholders

1. Primary app users  
These use our application to decide which restaurants to go to and which meals to buy based on recommendations.
2. Locu  
This is the provider for the restaurant and meal data that we will need. The provider has the power to control how much data we access.
3. Menyou Admin  
The admin creates question templates that will be used to auto-generate questions displayed on the client side.

## Resources

1. Locu API

### Difficulties:

- a) The Locu API might not be available every time we need to make a request on behalf of a Menyou user. However, we do not worry about this because an API like Locu's typically offers high (if not perfect) availability.
- b) Our dependence on this API makes it difficult for us to scale our application as the number of users increase. The API limits the number of transactions that we can make. It also limits the rate at which we can perform those transactions. As a result the number of Menyou users that we can concurrently support is dictated by the Locu API. However, we do not need to worry about scalability for this class (and if we were to scale the project, Locu offers a special pricing plan which allows for many more calls).

## Tasks

Each task that involves coding has a test component. Testing will be done in parallel with implementation of core application modules.

TASK	ASSIGNED TO	EXPECTED EFFORT	COMPLETE BY

<b>Design Doc</b>	All	3 days	11/11/14
Motivation	Danielle	15 mins	11/11/14
Context Diagram	Harihar	30 mins	11/11/14
Data Model	Harihar	40 mins	11/11/14
Concepts	Harihar	30 mins	11/11/14
Security Concerns	Ryan	50 mins	11/11/14
UI	Danielle	2 hrs	11/11/14
Design Challenges	Ryan	30 mins	11/11/14
Algorithm	Harihar	30 mins	11/11/14
<b>Teamwork Plan</b>	Tawanda	2 hrs	11/11/14
<b>MVP Implementation</b>	All	7 days	11/18/14
User Model	Tawanda	1-2 days	11/13/14
Users Controller	Tawanda	2-3 days	11/18/14
Users Routing	Tawanda	1-2 days	11/13/14
Taste Model	Harihar	1 day	11/18/14
Tastes Controller	Harihar	1-2 days	11/18/14
Authentication Template	Ryan	1-2 days	11/18/14
Recommendation Algorithm	Ryan	1 day	11/18/14
Integration of Locu API and the Recommendation Module	Harihar	1-2 days	11/18/14
<i>User Interface</i>			11/18/14
1. Map	Harihar	2 days	11/18/14

2.	Displaying of Recommendations	Danielle	1 day	11/18/14
3.	Filtering of meals	Harihar	1-2 days	11/18/14
4.	User profile editing (includes taste profile)	Danielle	1 day	11/18/14
<b>Revised Design</b>		All	2 days	11/25/14
	Modify previous document	All	1 hr	11/25/14
	Data Design	All	2 hr	11/25/14
	Code Design Challenges	All	1 hr	11/25/14
<b>Code for Grading</b>		All	7 days	12/2/14
	Question and Answer Models	Tawanda	1 day	11/27/14
	Question and Answer Controllers	Tawanda	2-3 days	12/2/14
	Question and Answer Routing	Tawanda	1 day	11/27/14
<i>User Interface</i>				
1.	Question and Answer Support	Danielle	1-2 days	12/2/14
2.	Styling	Danielle	1 day	12/2/14
	Integration of frontend and backend API	Harihar	1-2 days	12/2/14

Recommender System	Ryan	1-2 days	12/2/14
Integration of Recommender System with Locu API	Harihar	2 days	12/2/14
Authentication and Security	Ryan	2 days	12/2/14
Refactoring of Code	All	1 day	12/2/14
<b>Code for Deployment</b>	All	5 days	12/7/14
Refine the app (styling etc.)	All	5 days	12/7/14

## Risks

1. Wrong Recommendations  
If our recommendations are wrong we'll simplify the taste profile by keeping track of only likes and forbidden foods.
2. Missing data in Locu Service  
We will use Grubhub as backup. In the unlikely event that both fail, we will use Opentable. If none of the APIs work, then we'll limit project scope to places near MIT, and we will enter menu data by hand.

## MVP

Our MVP will have the following features:

- a) Map with restaurants
- b) List of meal recommendations, each with:
  - 1) place
  - 2) price
  - 3) meal
  - 4) description
  - 5) justification
  - 6) forbid button
- c) Filtering meals based on search box, price

- d) User profile/Taste profile editing
- e) Authentication template

We have postponed the following:

- a) Support of Questions and Answers in UI and backend
- b) Full authentication module
- c) Rich UI Styling

The MVP includes nearly all our concepts (see the Design Doc) - the only missing concept is the **question**.