Lab R@ts
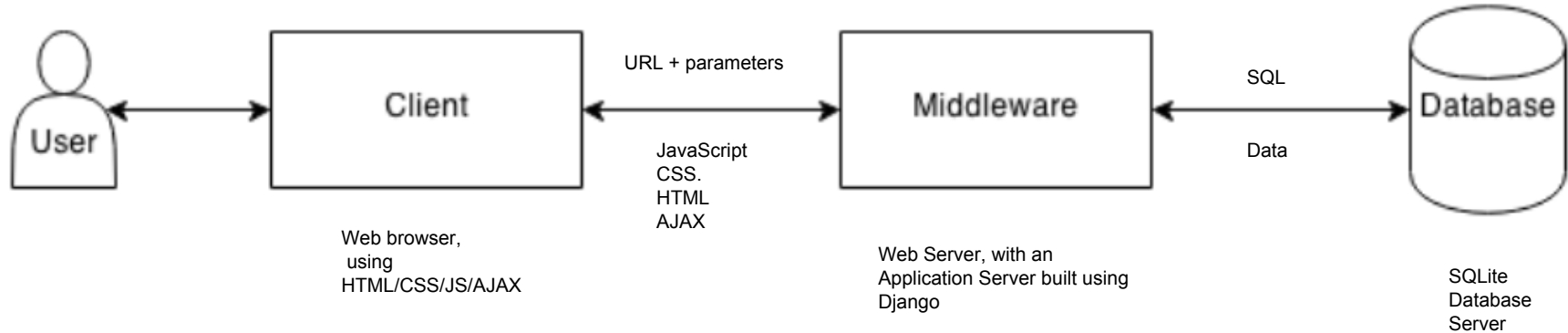
Team L

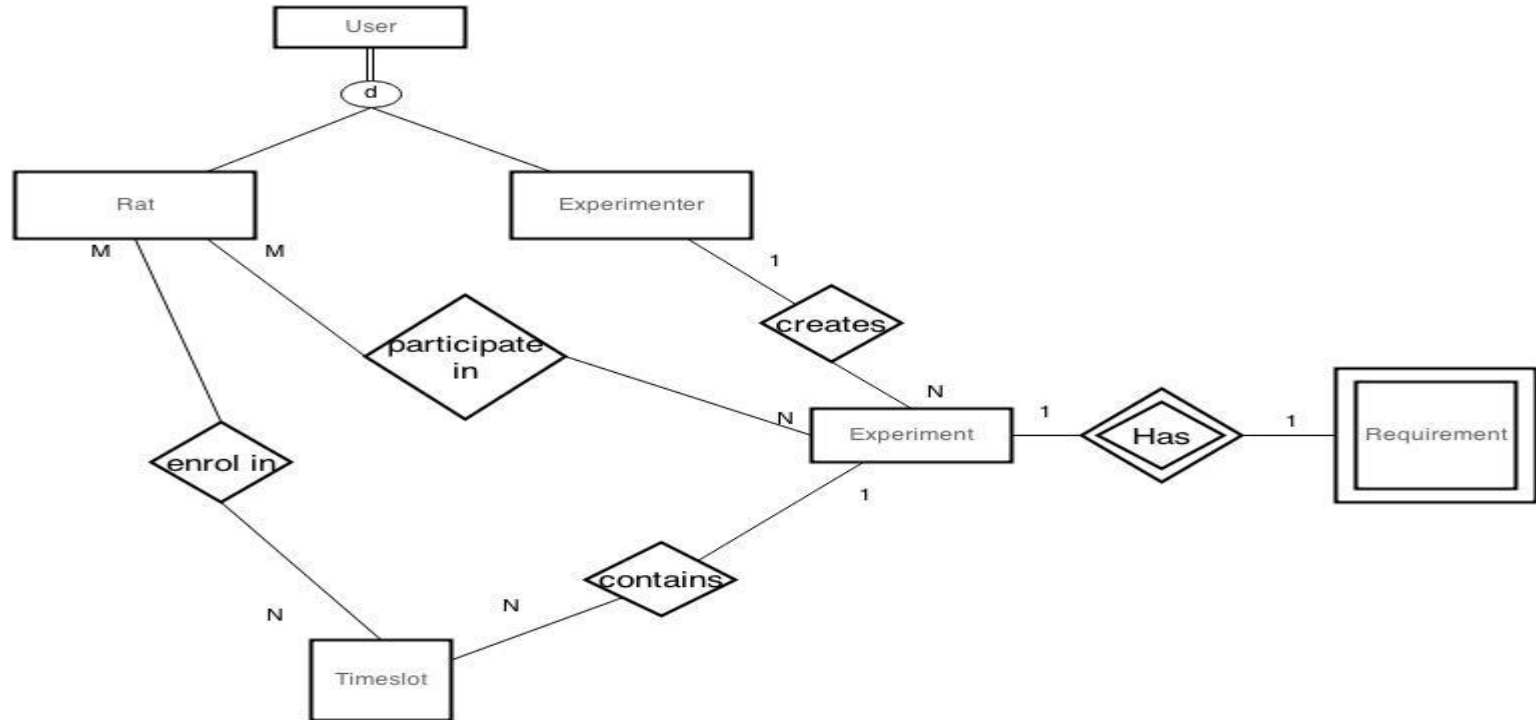# Lab R@ts

Bringing together students and experimenters through a friendly and easy to use platform

System Architecture

URL + parameters

JavaScript
CSS.
HTML
AJAX

SQL

Data

Web browser,
 using
HTML/CSS/JS/AJAX

Web Server, with an
Application Server built using
Django

SQLite
Database
Server

E.R. Diagram

E.R. Diagram - Attributes(1)

User

Attribute	Type
<u>username</u>	String
password	String
email	String
first_name	String
last_name	String
firstLanguage	String
title	String
phone	String

User

userType	String
picture	ImageField
webpage	String

Experimenter

Attribute	Type

Rat

Attribute	Type
school	String
age	Integer
sex	String
country	String
educationLevel	String
location	String

E.R. Diagram - Attributes(2)

Experiment

Attribute	Type
experimentID	Integer
title	String
description	String
max_participants	Integer
num_of_participants	Integer
date_start	Date

Attribute	Type
date_end	Date
tags	String
rewardType	String
rewardAmount	String
status	String
location	String
tag	String

E.R. Diagram - Attributes(3)

Timeslot

Attribute	Type
timeslotID	Integer
date	Date
time_from	Time
time_to	Time

Requirement

Attribute	Type
ageMin	Integer
ageMax	Integer
sex	String
firstLanguage	String
educationLevel	String
location	String

Wireframe(1)
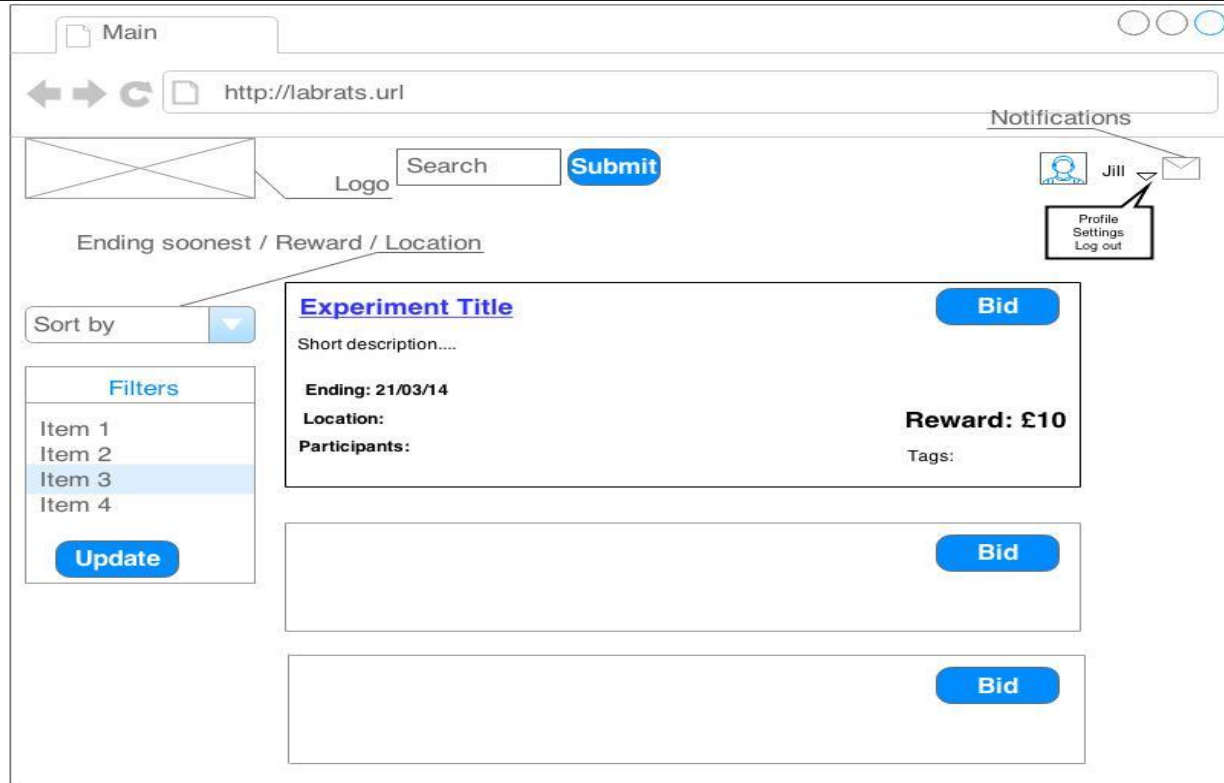
Wireframe(2)
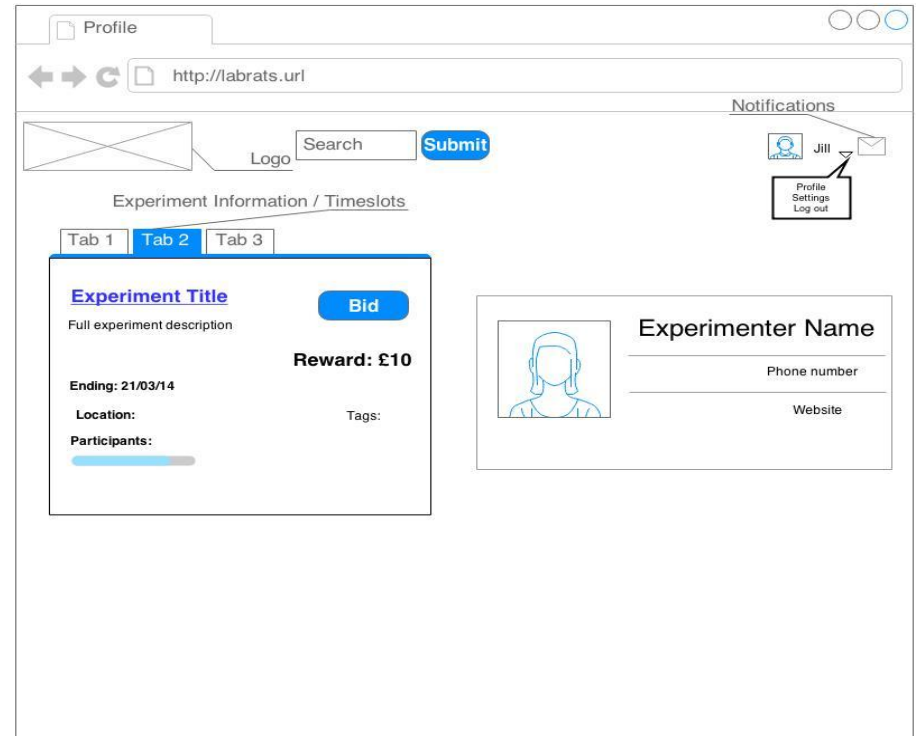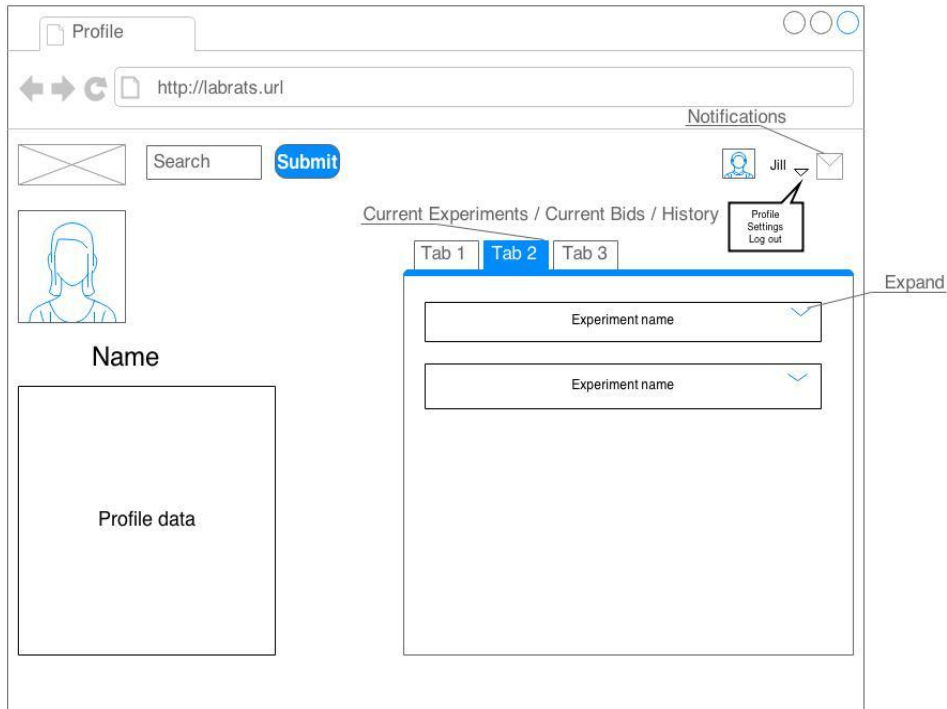
Stand-out features/functions

- Recommendations based on frequent tags associated with experiments the user has made bids for.

Specification List

Must Have:

- create experiments
- log in/out
- bid on experiment
- browse through experiments
- notification via email and interface if bid accepted
- view experiment details
- screen participants
- accept/decline bid

Should Have:

- filter experiments
- students browse through past experiments
- students browse through experiments they bid on
- summary of past 5 experiments (all)
- summary of past 5 experiments with up and coming dates y
- summary of top 5 highest paying experiments y

Could Have:

- view experimenter/fellow R@ts profile page n
- offer slots for experiments

Would Have:

- email list of up and coming experiments n
- recommendations based on tags

Achieved functionality

Must Have:

- create experiments
- log in/out
- bid on experiment
- browse through experiments
- notification via email and interface if bid accepted
- view experiment details
- screen participants
- accept/decline bid

Could Have:

- offer slots for experiments

Should Have:

- filter experiments
- students browse through past experiments
- students browse through experiments they bid on
- summary of past all experiments (and not 5)
- summary of past all experiments with up and coming dates (and not 5)
- summary of all highest paying experiments (and not 5)

Would Have:

- recommendations based on tags

Missing functionality:

Could Have:

- view experimenter/fellow R@ts profile page

Would Have:

- email list of up and coming experiments

User Personas

Christian Troy

Undergraduate Mechanical Engineering Student

Profile:

- 21 years old
- first year student
- has plenty of spare time on his hands
- interested in making some extra money in his spare time
- has bad eyesight

Critical Needs:

- browse through experiments
- find experiments that pay the most money
- get notified when he has to attend an experiment
- choose a time which does not conflict with his lectures

Opportunities to improve:

- notified via email when accepted to an experiment
- filter experiments which are appropriate for him
- notified the day before an experiment

User Personas

Danielle Perry

University teacher in the School of Psychology

Profile:

- 32 years old
- Honours and PhD in Psychology
- mother of 3
- researches psychophysiological insomnia
- lecturer and tutor for lvl 3 behavioural patterns course
- has a very busy schedule

Critical Needs:

- add her experiment to the site
- quickly approve or reject participants
- set timeslots which match her schedule

Opportunities to improve:

- notified when people have bid on her experiment
- notified the day before an experiment

User Needs Matrix

User groups and roles				Group1	Group2	Group3
I want to	Overall project	Internal	External	Student	Experimenter	Administrator
Create Experiment	1				1	
Filter Experiments	4			4	5	
Approve/Reject R@ts Anonymously	2				2	
Log In/Log Out	1			1	1	1
Browse Experiments	2			2	3	
Register	1			1	1	
View Experiment Details	3			2	3	5
Bid On Experiment	1			1		
Get Notified If Bid Accepted	4			4		
Choose a timeslot	5			5		
Create Timetable Slot	5				5	

URLs and Site Map

Notable URLs:

- /
- /register
- /login
- /profile/{username}
- /editProfile
- /experiment/{experiment_name}
- /experiment/create
- /search (template does not exist)
- /tag/{tag_name}

Site Map

- /
  - /register
  - /login
  - /profile/{id}
  - /editProfile
  - /experiment/{experiment_name}
    - /create
  - /search
  - /tag/{tag_name}