

Fake Twaxi - Group 12B

Report - Second Iteration

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0: Introduction

Team Members

- Alex Hall
- Todd Halsey
- Chika Nkwanta
- Joshua O'Sullivan
- Likith Surapaneni
- Yixin Zu

Scope

The objective of the project is to produce a system that allows a taxi company to receive, manage, and respond to requests for taxi services via twitter. Customers should be able to register for an account within this system, and in addition it should be able to run competitions, provide registered customers with free rides, and facilitate management of the company's vehicles, user accounts, and employee accounts.

1: System Access

Commands

To run the system, use `ruby main.rb`

Username/Passwords

General manager (Sheffield)

Username	josh
Password	Password2!

Account manager (Sheffield)

Username	accounts-manager
Password	Password2!

Twitter manager (Sheffield)

Username	twitter-manager
Password	Password2!

Marketing manager (Sheffield)

Username	marketing-manager
Password	Password2!

Customer account (Sheffield)

Username	josh
Password	Password2!

General manager (Manchester)

Username	josh
Password	Password2!

Account manager (Manchester)

Username	accounts-manager
Password	Password2!

Twitter manager (Manchester)

Username	twitter-manager
Password	Password2!

Marketing manager (Manchester)

Username	marketing-manager
Password	Password2!

Customer account (Manchester)

Username	todd
Password	Password2!

Additional Details

Required gems:

- sinatra
- sinatra-reloader
- twitter
- sqlite3
- bcrypt
- Thin
- Rspec
- Simplecov
- Capybara
- nokogiri', '1.6.7.2
- cucumber

We have created a gem bundle consisting of all the required gems.

To install this bundle, type “bundle install”, this will then automatically install the bundle.

```
codio@baby-regard:~/workspace$ bundle install
Your Gemfile lists the gem sinatra (>= 0) more than once.
You should probably keep only one of them.
While it's not a problem now, it could cause errors if you change the version of just one of them later.
Fetching gem metadata from https://rubygems.org/.....
Fetching version metadata from https://rubygems.org/...
Fetching dependency metadata from https://rubygems.org/..
Fetching gem metadata from https://rubygems.org/.....
Fetching version metadata from https://rubygems.org/...
Fetching dependency metadata from https://rubygems.org/..
Resolving dependencies...
Installing public_suffix 3.0.3
Installing backports 3.12.0
Installing bcrypt 3.1.12 with native extensions
Installing buftok 0.2.0
Installing builder 3.2.3
Installing mini_mime 1.0.1
Using mini_portile2 2.0.0
Installing rack 2.0.6
Installing cucumber-tag_expressions 1.1.1
Installing gherkin 5.1.0
Installing cucumber-expressions 6.0.1
Installing cucumber-wire 0.0.1
Installing diff-lcs 1.3
Installing multi_json 1.13.1
Installing multi_test 0.1.2
Installing daemons 1.3.1
Installing docile 1.3.1
Installing unf_ext 0.0.7.5 with native extensions
Installing equalizer 0.0.11
Installing eventmachine 1.2.7 with native extensions
Installing geocoder 1.5.1
Installing http-form_data 2.1.1
Installing http_parser.rb 0.6.0 with native extensions
Installing json 2.2.0 with native extensions
Installing thread_safe 0.3.6
Installing multipart-post 2.0.0
Installing mustermann 1.0.3
Installing naught 1.1.0
Installing rspec-support 3.8.0
Installing simple_oauth 0.3.1
Installing simplecov-html 0.10.2
Installing tilt 2.0.9
```

2: Resubmission of Story Cards

Stakeholders

- **Customer**
The customer will tweet @FakeTwaxi to book taxis via twitter.
- **Customer with an account**
A customer with an account inherits all of the abilities of the regular customer, in addition to being able to take part in competitions, see their previous journeys, receive a free ride for every 10 paid rides they take, and edit their account data to keep it up to date.
- **Taxi Manager**
The taxi manager should be able to see and respond to incoming tweets in order to be able to provide taxi services.
- **Accounts Manager**
The accounts manager should be able to manage customer and employee accounts and data.
- **Car Manager**
The car manager should be able to manage the database of vehicles the company owns.
- **Marketing Manager**
The marketing manager should be able to manage Twitter competitions that offer free rides to registered customers.
- **General Manager**
The general manager inherits all the abilities of the taxi, accounts, car and marketing managers.
- **Twitter**
Twitter will provide the main method of customers interacting with the Fake Twaxi system.

Estimations and Prioritisations

Estimations of complexity of story cards are based on a 1 to 10 scale, 1 being relatively easy, 10 being relatively hard.

The client categorized each card on whether it is something the system must do (mandatory) or should do (should). Story cards that were marked as “should” were then further ranked by the client, with the cards being sorted into categories 1 to 6 of which are most important (1 the most, 6 the least).

Changes to Story Cards

Changes to the story cards are indicated in them. Removed words have been ~~striked~~ through and highlighted in red, and any additions have been highlighted in green.

Customer Story Cards

CUST#1

As a customer, not logged in,

I want to be able to see what types of cars the company owns on the website (their capacity and images),

So that I can see if Fake Twaxi has any vehicles suitable for my needs.

Acceptance Criteria

As a customer I can see a list of cars on the company's website, with each one detailing their capacity (by a numeric value) and appearance (by an image).

Client Priority - Mandatory

Complexity - 4

CUST#2

As a customer, not logged in,

I want to be able to see what offers are available on the website,

So that I can see if there are any offers that would make me want to create an account.

Acceptance Criteria

As a customer I can see a list of offers that are available on the website.

Client Priority - Should - Priority 1

Complexity - 5

CUST#3

As a customer

I want to be able to create an account by providing a password, a twitter handle, and a username and a location ("Sheffield" or "Manchester").

So that I can take part and see my progress in offers, see my previous journeys, and add information about myself such as my home address and favourite places.

Acceptance Criteria

There should be a form that takes the user's details (a username, twitter handle, and a password and a location), that should be submittable to create an account.

Client Priority - Mandatory

Complexity - 10

CUST#4

As a customer,

I want to be able to make a tweet at @FakeTwaxi,

So that the twitter manager is notified that I want to book a taxi.

Client Priority - (Unknown)

Complexity - 1

CUST#5

As a customer,

I want to be able to add a geotag to my tweet,

So that the twitter manager knows where I want to be picked up from.

Client Priority - (Unknown)
Complexity - 2

Customer With A Fake Twaxi Account Story Cards

CUSTACC#1

As a customer with an account,

I want to be able to log in to my account with my username and password,

So that I can see and edit my customer data.

Acceptance Criteria

There should exist a login screen into which I can input my username and password, and when it is correct, I should be able to log in.

Client Priority - Mandatory

Complexity - 8

CUSTACC#2

As a customer with an account,

I want to be able to change the twitter handle associated with my account,

So that I can use the same account even if I change my twitter handle.

Acceptance Criteria

There should exist a facility to input my account's new associated twitter handle.

Client Priority - Mandatory

Complexity - 5

CUSTACC#3

As a customer with an account,

I want to be able to edit my account's home location,

So that my account's home location is up to date.

Client Priority - Should

Complexity - 6

CUSTACC#4

As a customer with an account,

I want to be able to see my previous journeys,

So that I can see where I've been, and how many journeys I have been on so I know when I will get a free ride.

Acceptance Criteria

There should exist a list which a logged in user can see that displays all of their previous journeys (their origin, destination, and date).

Client Priority - Mandatory

Complexity - 9

CUSTACC#5

As a customer with an account,

I want to have a free ride added to my account automatically every 10 paid rides,

So that I can get the correct rewards with ease.

Acceptance Criteria

Once a customer account has had 10 paid rides, they are given a free ride.

Client Priority - Mandatory

Complexity - 8

Car Manager Story Cards

CARMAN#1

As a Car Manager,

I want to be able to add vehicles to the database,

So that the database of vehicles is up to date.

Acceptance Criteria

There should be a facility that allows a new car to be added into the database that requires a taxi number and a type of vehicle.

Client Priority - Mandatory

Complexity - 6

CARMAN#2

As a Car Manager,

I want to be able to remove vehicles from the database,

So that the database of vehicles is up to date.

Acceptance Criteria

There should be a facility to mark a specific vehicle as out of service/decommissioned that requires a taxi number to identify the taxi that should be removed.

Client Priority - Mandatory

Complexity - 6

CARMAN#3

As a Car Manager,

I want to be able to change records about vehicles in the database,

So that any changes to the vehicles are logged.

Acceptance Criteria

There should be a facility to update a vehicle's record in the database that requires a taxi number to identify the taxi to be edited, and a new value for any other fields that are being updated.

Client Priority - Mandatory

Complexity - 6

CARMAN#4

As a Car Manager,

I want to be able to log in to the admin side of the system,

So that I can access the car manager dashboard of my city.

Acceptance Criteria

It should be possible to log into the car manager account and gain access to the car manager dashboard.

Client Priority - Mandatory

Complexity - 5

CARMAN#5

As a Car Manager,

I want to be able to see vehicles in the database

So that I can easily check vehicle details

Acceptance Criteria

There should be a facility that allows me to see a list of all the vehicles in the database

Client Priority - (Unknown)

Complexity - 4

Account Manager Story Cards

ACCMAN#1

As an Account Manager,

I want to be able to edit data about users' Fake Twaxi accounts,

So that I am able to update customer information.

Acceptance Criteria

There should exist a dialogue into which I can input a username to fetch that user's data, and once I have done this there should exist autofilled fields containing that user's data which I can then edit and resubmit.

Client Priority - Mandatory

Complexity - 7

ACCMAN#2

As an Account Manager,

I want to be able to view, add, edit and remove offers from customers' Fake Twaxi accounts,

So that customers can use the offers on their future journeys.

Acceptance Criteria

There should exist a dialogue into which I can input a username to fetch that user's offers data. Once this data has been retrieved, there should exist autofilled fields containing the data which I can then add to, edit or remove and then submit the changes.

Client Priority - Mandatory

Complexity - 7

ACCMAN#3

As an Account Manager,

I want to be able to view previous rides on customers' Fake Twaxi accounts,

So that their journey history can be viewed in the future e.g. in the case of a customer complaint.

Acceptance Criteria

As an account manager, I can view previous rides on a selected customer's Fake Twaxi account.

Client Priority - Mandatory

Complexity - 6

ACCMAN#4

As an Account Manager,

I want to be able to login to the admin side of the system,

So that I can access the customer and employee accounts dashboards of my city.

Acceptance Criteria

It should be possible to log into the account manager account and gain access to the account manager dashboard.

Client Priority - Mandatory

Complexity - 5

Marketing Manager Story Cards

MARKMAN#1

As a Marketing Manager,

I want to be able to press a button which sends a “Retweet to win a free ride” tweet from the Fake Twaxi account - this must contain information stating that the winner must have a linked Fake Twaxi account.

So that customer competitions can be easily started.

Acceptance Criteria

As a marketing manager, when the “Retweet to win a free ride” button is pressed, a tweet is sent containing details of the competition.

Client Priority - Mandatory

Complexity - 9

MARKMAN#2

As a Marketing Manager,

I want to be able to input a finish date for the competitions from a date calendar field - this will be stated to the customers in the tweet.

So that the finish date of competitions can be easily chosen and seen by customers.

Acceptance Criteria

As a marketing manager, a finish date for competitions can be chosen from a calendar field. This finish date will then be stated in the initial competition tweet.

Client Priority - Should - Priority 5

Complexity - 6

MARKMAN#3

As a Marketing Manager,

I want to be able to press an “End Competition” buttons for each ongoing competition. Pressing this should start the completion process for the competition.

So that the I can easily chose when each competition is ended.

Acceptance Criteria

As a marketing manager, when the “End Competition” button is pressed, the completion process for the corresponding competition is started.

Client Priority - Mandatory

Complexity - 7

MARKMAN#4

As a Marketing Manager,

I want a random retweeter to be automatically selected from “retweet” competitions as the winner. This retweeter must have a linked Fake Twaxi account.

So that valid customers are fairly selected to win.

Acceptance Criteria

When an “End Competition” button is pressed, a random retweeter is automatically selected from the corresponding competition as the winner. The winner must have a linked Fake Twaxi account.

Client Priority - Mandatory

Complexity - 7

MARKMAN#5

As a Marketing Manager,

I want a free ride to automatically be added to the Fake Twaxi account of winners of “retweet” competitions,

So that the competition winner quickly and easily receives their prize.

Acceptance Criteria

After a winner has been selected from the “Retweet to win a free ride” competition, a free ride is automatically added to the Fake Twaxi account of the winner.

Client Priority - Mandatory

Complexity - 6

MARKMAN#6

As a Marketing Manager,

I want to be able to login to the admin side of the system,

So that I can access the marketing manager dashboard of my city.

Acceptance Criteria

It should be possible to log into the marketing manager account and gain access to the marketing manager dashboard.

Client Priority - Mandatory

Complexity - 5

MARKMAN#7

As a Marketing Manager ,

I want to have a tweet automatically sent “@‘ing” the winner of a competition saying congratulations and that the prize has been added to their Fake Twaxi account,

So that the winner of competitions know that they have won.

Acceptance Criteria

When a “Retweet to win a free ride” competition is ended and the winner is selected, a tweet will automatically be sent “@ing” the winner saying congratulations and that the prize has been added to their Fake Twaxi account.

Client Priority - Mandatory

Complexity - 6

Taxi Manager Story Cards

TAXIMAN#1

As a Taxi Manager,

I want to be able to respond to requests for taxis with further tweets,

So that I can get information from the customer if they have not provided it ("What type of vehicle do you want?", "Where do you want to go?", "Which city are you in?" etc).

Acceptance Criteria

Tweets that are requests for taxis can be viewed and responded to from the taxi manager dashboard (using Tweets without having to go to the Twitter website) **where only Tweets in my city are displayed.**

Client Priority - Mandatory

Complexity - 5

TAXIMAN#3

As a Taxi Manager,

I want to be able to separate tweets into lists of solely "Active", "Handled", and "Irrelevant" requests.

So that I can easily see all of the "Active" requests and open dialogues to respond to them.

Acceptance Criteria

Taxi requests can be seen in a list of solely "Active", "Handled", and "Irrelevant" requests with corresponding colours from the taxi manager dashboard.

Client Priority - Mandatory

Complexity - 6

TAXIMAN#4

As a Taxi Manager,

I want an automated response to be sent once a request is marked as "Handled" - this should state "Your taxi is enroute".

So that I don't have to input one manually.

Acceptance Criteria

Once a request is marked as "Handled", an automatic tweet is sent "@ing" the user's Twitter account stating that "Your taxi is enroute".

Client Priority - Should - Priority 2

Complexity - 6

TAXIMAN#5

As a Taxi Manager,

I want the geotag provided in a user's tweet to automatically be filled in as their pickup location **and city**,

So that I don't have to input it manually.

Acceptance Criteria

When a request tweet is sent with a geotag, the system will automatically fill this in as the pickup location **and city**.

Client Priority - Should - Priority 3

Complexity - 7**TAXIMAN#6**

As a Taxi Manager,

I want to be able to see all previous messages with a given customer,

So that I can fully understand the conversation with any given customer.

Acceptance Criteria

When the taxi manager is handling a request, all dialogue between the taxi manager and the customer should be viewable.

Client Priority - Mandatory

Complexity - 10

TAXIMAN#7

As a Taxi Manager,

I want to be able to log in to the admin side of the system,

So that I can access the twitter manager dashboard.

Acceptance Criteria

It should be possible to log into the taxi manager account and gain access to the taxi manager dashboard.

Client Priority - Mandatory

Complexity - 5

TAXIMAN#8

As a Taxi Manager,

I want to have requests marked as "Unknown" 20 minutes after they've been marked as "Handled",

So that my feed of taxi requests doesn't become cluttered.

Acceptance Criteria

20 minutes after a request is marked as "Handled", the request is marked as "Unknown" in the system.

Client Priority - Mandatory

Complexity - 7

TAXIMAN#9

As a Taxi Manager,

I want to be able to view and fill in the destination with the customers favourite location or home address when a tweet mentions one of them,

So that a twaxi can be booked faster and easier.

Acceptance Criteria

As a Taxi manager, when a tweet mentions either the favourite or home address, I can view the customers address and fill the destination with the information.

Client Priority - Should - Priority 6

Complexity - 6

TAXIMAN#10

As a Taxi Manager,

I want to be able to set a conversation as “Sheffield” or “Manchester”

So that the appropriate Taxi Manager (the Sheffield Taxi Manager or the Manchester Taxi Manager) handles the request.

Acceptance Criteria

There should be an option to set the location of the conversation to “Sheffield” or “Manchester”. This data will be collected through conversation or geotags.

Client Priority - (Unknown)

Complexity - 4

General Manager Story Cards

GENERALMAN#5

As a General Manager,

I want to be able to login to the admin side of the system,

So that I can access all of the dashboards.

Acceptance Criteria

It should be possible to log into the general manager account and gain access to the general manager dashboard.

Client Priority - Should - Priority 4

Complexity - 5

3: Selected Story Cards

Completed	Selected	
	Improvements from last iteration	Selected for this iteration
CUST#4	CUST#3	CUST#1 CUST#2 CUST#5
CUSTACC#1	CARMAN#1 CARMAN#2 CARMAN#4	CUSTACC#2 CUSTACC#3 CUSTACC#4 CUSTACC#5
MARKMAN#1 MARKMAN#2	ACCMAN#1 ACCMAN#2 ACCMAN#3 ACCMAN#4	CARMAN#3 CARMAN#5
GENERALMAN#5	MARKMAN#3 MARKMAN#4 MARKMAN#6 MARKMAN#7	MARKMAN#5
	TAXIMAN#1 TAXIMAN#6 TAXIMAN#7	TAXIMAN#3 TAXIMAN#4 TAXIMAN#5 TAXIMAN#8 TAXIMAN#9 TAXIMAN#10

6 improvements were specified by the client in the First Iteration Presentation:

1	Remove the word "copyright" from footer
2	Make the colour scheme black and yellow (for text?)
3	Fix indents on navbar
4	Include line to indicate start of footer
5	Make headings more obvious
6	Thin out banner

Team Member Contributions

Josh

"I continued to work around our database to try and provide the team with methods to access it as to segment SQL queries from the controller code for the sake of maintainability, as well as expanding the database to handle new requirements (such as accounts being in either Sheffield or Manchester). I also continued to work with the accounts by implementing the abilities for customers and account managers to edit account data."

Todd

"I worked on overall UX for much of the site, some of this work was done alongside Likith. I used mainly CSS to help improve the look and feel of the site, however some minor adjustments were made to HTML of pages as well. I did graphical design work to create the logo and certain icons used throughout the site, also I created the header and footer."

Alex

"I worked further on the main functionality of the Twitter Manager dashboard. I refined the process of fetching new tweets, generating a displayable conversation and applied colouring to message in the conversation and incoming tweets. I also created the form allowing a new ride to be added to the database and the ability to set incoming conversations as being either 'Sheffield' or 'Manchester'. I also create the design of the PDF."

Likith

"I worked on the CSS and HTML with my partner Todd. I worked on the Market Manager which creates Twitter competitions and Select a winner when the competition ends and adds the free ride to the user. I have work along with Alex on geotags and Home Address. I also worked on the car manager. I have helped Yixin with Previous Rides. I have 20 scenarios of cucumber testing."

Chika

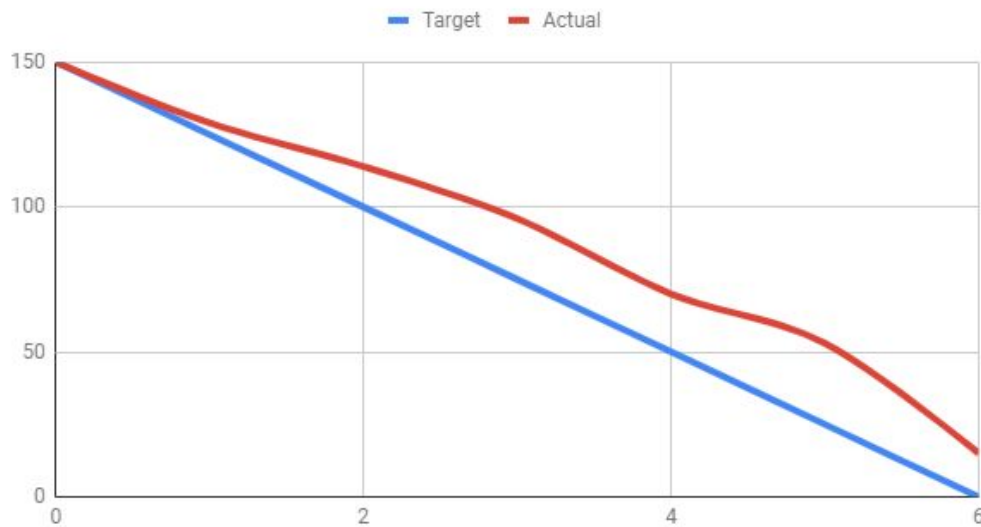
" "

Yixin

"I worked further on the previous ride, account manager can see the table. And i write a function that customer could check the current offer, and the free ride added to customer account automatically every 10 paid rides."

4: Burndown Chart

Burndown Chart Second Iteration



The values for the Burndown Chart are based on the complexity values for our story cards and an approximation of how much each was completed by at a specific point of time in the project. This data was recorded on a spreadsheet which is shown below:

	Story Card	Card Complexity	Claimed By	Remaining Complexity													
				Initial		Friday Week 9		Friday Easter 1		Friday Easter 2		Friday Easter 3		Friday Week 10		Friday Week 11	
				29/04/19		05/04/19		12/04/19		19/04/19		26/04/19		03/05/19		10/05/19	
				Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual
Story Cards from Last Iteration	CUST#3	10	Josh	2	2	2	0	2	0	1	0	1	0	1	0	0	0
	CARMAN#1	6	Likith	6	6	5	6	4	5	3	3	2	0	1	0	0	0
	CARMAN#2	6	Likith	6	6	5	6	4	5	3	4	2	1	1	0	0	0
	CARMAN#4	5	Josh	5	5	5	1	4	1	3	1	2	1	1	0	0	0
	ACCMAN#1	7	Josh	6	6	5	6	4	5	3	4	2	4	1	3	0	0
	ACCMAN#2	7	Josh	6	6	5	6	4	5	3	4	2	3	1	3	0	0
	ACCMAN#3	6	Josh	4	4	3	3	3	1	2	1	1	1	1	0	0	0
	ACCMAN#4	5	Josh	2	2	2	0	2	0	1	0	1	0	1	0	0	0
	MARKMAN#3	7	Likith	2	2	2	2	2	1	1	1	1	0	1	0	0	0
	MARKMAN#4	7	Likith	3	3	3	3	2	2	2	1	1	0	1	0	0	0
	MARKMAN#6	5	Josh	2	2	2	0	2	0	1	0	1	0	1	0	0	0
	MARKMAN#7	6	Likith	5	5	5	5	4	4	3	3	2	1	1	0	0	0
	TAXIMAN#1	5	Alex	2	2	2	2	2	1	1	1	1	1	1	0	0	0
	TAXIMAN#6	10	Alex	4	4	3	4	3	2	2	1	1	1	1	1	0	0
	TAXIMAN#7	5	Josh	2	2	2	0	2	0	1	0	1	0	1	0	0	0
	GENERALMAN#5	5	Josh	2	2	2	0	2	0	1	0	1	0	1	0	0	0
Story Cards for This Iteration	CUST#1	4	Todd/Likith	4	4	3	4	3	4	2	0	1	0	1	0	0	0
	CUST#2	5	Todd/Likith	5	5	5	5	4	5	3	4	2	0	1	0	0	0
	CUST#5	2	Likith	2	2	2	2	2	2	1	2	1	1	1	1	0	0
	CUSTACC#2	5	Josh	5	5	5	5	4	5	3	5	2	4	1	2	0	0
	CUSTACC#3	6	Josh	6	6	5	5	4	5	3	5	2	4	1	2	0	0
	CUSTACC#4	9	Josh	9	9	8	8	7	8	6	8	4	4	2	4	0	0
	CUSTACC#5	8	Josh	8	8	7	7	6	8	5	8	4	8	2	8	0	8
	CARMAN#3	6	Likith	6	6	5	5	4	2	3	2	2	1	1	0	0	0
	CARMAN#5	4	Likith	4	4	3	3	3	2	2	2	1	0	1	0	0	0
	MARKMAN#5	6	Likith	6	6	5	6	4	6	3	5	2	4	1	3	0	0
	TAXIMAN#3	6	Alex	6	6	5	5	4	5	3	4	2	4	1	4	0	0
	TAXIMAN#4	6	Alex	6	6	5	6	4	6	3	6	2	6	1	3	0	0
	TAXIMAN#5	7	Alex	7	7	6	7	5	7	4	5	3	5	2	4	0	0
	TAXIMAN#8	7	Alex	7	7	6	7	5	7	4	7	3	7	2	7	0	7
	TAXIMAN#9	6	Likith	6	6	5	6	4	6	3	6	2	6	1	6	0	0
	TAXIMAN#10	4	Alex	4	4	3	4	3	4	2	3	1	3	1	2	0	0
Total Complexity Remaining		183	-	150	150	125	129	100	114	75	96	50	70	25	53	0	15

From the burndown chart, it is clear to see that we were always behind schedule. 2 story cards were left unfinished for this iteration due to a lack of time to develop them.

5: Testing

Iteration 1

Testing in our first iteration has been relatively minimal; the only testing that so far has been implemented is on some of the ruby functions used to access and modify the database using minitest; specifically, the users database. These can be found in minitests/test_users_db_utilities.rb, and all run successfully:

```
codio@divide-mister:~/workspace/project/minitests$ ruby test_users_db_utilities.rb
Run options: --seed 34408

# Running:

.....

Finished in 0.340401s, 26.4394 runs/s, 38.1902 assertions/s.

9 runs, 13 assertions, 0 failures, 0 errors, 0 skips
codio@divide-mister:~/workspace/project/minitests$
```

We also did testing using 'Cucumber' on the login features for the twitter manager, market manager, and for accessing the dashboards respectively. The results shown by this cucumber testing were as we expected, and as can be seen below, when you login with a specific type of manager's username and password, you are logged in as the correct respective manager.

```
Feature: Login

Scenario: Correct password entered                                # features/login.feature:3
  Given I am on the login page                                  # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "marketting-manager"          # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "Password2!"                  # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form"                           # features/step_definitions/web_steps.rb:20
  Then I should see "You're logged in as: marketting-manager" # features/step_definitions/web_steps.rb:100

Scenario: Wrong password entered                                # features/login.feature:10
  Given I am on the login page                                  # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "marketting-manager"          # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "nonsense"                     # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form"                           # features/step_definitions/web_steps.rb:20
  Then I should see "Email:"                                    # features/step_definitions/web_steps.rb:100
  Then I should see "Incorrect password."                       # features/step_definitions/web_steps.rb:100

Feature: Sending Retweet Competition

Scenario: Correct password entered                                # features/marketmanager-start.feature:3
  Given I am on the login page                                  # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "marketting-manager"          # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "Password2!"                  # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form"                           # features/step_definitions/web_steps.rb:20
  Then I should see "You're logged in as: marketting-manager" # features/step_definitions/web_steps.rb:100
  Then I go to marketmanager page                               # features/step_definitions/web_steps.rb:16
  When I fill in "date" with "08-20-2020"                       # features/step_definitions/web_steps.rb:32
  Then I should see "Market Manager Dashboard"                 # features/step_definitions/web_steps.rb:100

  Then I go to twittermanager page                               # features/step_definitions/web_steps.rb:16
  Then I should see "Twitter Manager Dashboard"                 # features/step_definitions/web_steps.rb:100

Scenario: Wrong password entered                                # features/twittermanager.feature:12
  Given I am on the login page                                  # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "twitter-manager"              # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "nonsense"                     # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form"                           # features/step_definitions/web_steps.rb:20

Feature: Login

Scenario: Correct password entered                                # features/twittermanager.feature:3
  Given I am on the login page                                  # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "twitter-manager"              # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "Password2!"                  # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form"                           # features/step_definitions/web_steps.rb:20
  Then I should see "You're logged in as: twitter-manager"      # features/step_definitions/web_steps.rb:100

Scenario: Wrong password entered                                # features/twittermanager.feature:12
  Given I am on the login page                                  # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "twitter-manager"              # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "nonsense"                     # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form"                           # features/step_definitions/web_steps.rb:20
  Then I should see "Email:"                                    # features/step_definitions/web_steps.rb:100
  Then I should see "Incorrect password."                       # features/step_definitions/web_steps.rb:100

5 scenarios (5 passed)
32 steps (32 passed)
0m2.036s
codio@raja-system:~/workspace/project$
```


Iteration 2

We also did testing using 'Cucumber' on the login features for the twitter manager, market manager, car manager ,account manager,customers and general managers. The results shown by this cucumber testing were as we expected, and as can be seen below, when you login with a specific type of manager's username and password, you are logged in as the correct respective manager.

We Also Tested each of the managers dashboards and access to them. We logged in as a customer and tested for different displays.

```
Scenario: Correct password entered (Account Manager)
  Given I am on the login page
  When I fill in "username" with "accounts-manager-sheffield"
  When I fill in "password" with "Password2!"
  When I press "log in" within "form"
  Then I go to the account page
  Then I should see "You're logged in as: accounts-manager-sheffield"
  Then I go to the previousride page
  Then I fill in "username" with "josh"
'josh'
  When I press "Search Rides" within "form"
  Then I should see "josh"

Feature: carmanager_DashBoard_View_Car

Scenario: Correct password entered (Car Manager)
  Given I am on the login page
  When I fill in "username" with "car-manager-sheffield"
  When I fill in "password" with "Password2!"
  When I press "log in" within "form"
  Then I go to the account page
  Then I should see "You're logged in as: car-manager-sheffield"
  Then I go to the carmanager page
  Then I should see "Car Manager Dashboard"
  Then I should see "Taxi Number"
  Then I should see "Type of Vehicle"
  Then I should see "Available"

Feature: cust_page

Scenario: Correct password entered (Customer Page)
  Given I am on the login page
  When I fill in "username" with "todd"
  When I fill in "password" with "Password2!"
  When I press "log in" within "form"
  Then I go to the account page
  Then I should see "You're logged in as: todd"
  Then I should see "Your twitter handle is: @thalseyfitness"
  Then the "home_address" field within "form" should contain "S10 3AL"
```

```

Feature: Access_to_all_accounts

  Scenario: Correct password entered (General Manager)
    Given I am on the login page
    When I fill in "username" with "general-manager-sheffield"
    When I fill in "password" with "Password2!"
    When I press "log in" within "form"
    Then I go to the account page
    Then I should see "You're logged in as: general-manager-sheffield"
    Then I go to the carmanager page
    Then I should see "Car Manager Dashboard"
    <--- Executing conversationList()... --->
    <--- Executing updateDatabase() --->
    Checking if any of the recent tweets are already in the database...
    <--- Executing getListOfConversations()... --->
    Then I go to twittermanager page
    Then I should see "Please select a conversation on the left"
    sheffield
    Then I go to marketmanager page
    Then I should see "Market Manager Dashboard"
    Then I go to the previousride page
    Then I should see "Previous Rides"
    Then I go to the accountsmanager page
    Then I should see "User Data"

Feature: login

  Scenario: UserName does not exist (General Manager)
    Given I am on the login page
    When I fill in "username" with "general-manager"
    When I fill in "password" with "nonsense"
    When I press "log in" within "form"
    Then I should see "We don't seem to have a user with that username."

  Scenario: Wrong password entered (General Manager)
    Given I am on the login page
    When I fill in "username" with "general-manager-sheffield"
    When I fill in "password" with "nonsense"
    When I press "log in" within "form"
    Then I should see "Incorrect password."

  Scenario: Correct password entered (General Manager)
    Given I am on the login page
    When I fill in "username" with "general-manager-sheffield"
    When I fill in "password" with "Password2!"
    When I press "log in" within "form"
    Then I go to the account page
    Then I should see "You're logged in as: general-manager-sheffield"

  Scenario: Correct password entered (General Manager)
    Given I am on the login page
    When I fill in "username" with "general-manager-manchester"
    When I fill in "password" with "Password2!"
    When I press "log in" within "form"
    Then I go to the account page
    Then I should see "You're logged in as: general-manager-manchester"

  Scenario: Correct password entered (Market Manager)
    Given I am on the login page
    When I fill in "username" with "marketting-manager-sheffield"
    When I fill in "password" with "Password2!"
    When I press "log in" within "form"
    Then I go to the account page
    Then I should see "You're logged in as: marketting-manager-sheffield"

  Scenario: Correct password entered (Market Manager)
    Given I am on the login page
    When I fill in "username" with "marketting-manager-manchester"
    When I fill in "password" with "Password2!"
    When I press "log in" within "form"
    Then I go to the account page
    Then I should see "You're logged in as: marketting-manager-manchester"

  Scenario: Correct password entered (Car Manager)
    Given I am on the login page
    When I fill in "username" with "car-manager-sheffield"
    When I fill in "password" with "Password2!"
    When I press "log in" within "form"
    Then I go to the account page
    Then I should see "You're logged in as: car-manager-sheffield"

```



```

Scenario: Correct password entered (Car Manager) # features/login.feature:50
  Given I am on the login page # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "car-manager-sheffield" # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "Password2!" # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form" # features/step_definitions/web_steps.rb:20
  Then I go to the account page # features/step_definitions/web_steps.rb:16
  Then I should see "You're logged in as: car-manager-sheffield" # features/step_definitions/web_steps.rb:100

Scenario: Correct password entered (Car Manager) # features/login.feature:58
  Given I am on the login page # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "car-manager-manchester" # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "Password2!" # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form" # features/step_definitions/web_steps.rb:20
  Then I go to the account page # features/step_definitions/web_steps.rb:16
  Then I should see "You're logged in as: car-manager-manchester" # features/step_definitions/web_steps.rb:100

Scenario: Correct password entered (Twitter Manager) # features/login.feature:67
  Given I am on the login page # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "twitter-manager-sheffield" # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "Password2!" # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form" # features/step_definitions/web_steps.rb:20
  Then I go to the account page # features/step_definitions/web_steps.rb:16
  Then I should see "You're logged in as: twitter-manager-sheffield" # features/step_definitions/web_steps.rb:100

Scenario: Correct password entered (Twitter Manager) # features/login.feature:75
  Given I am on the login page # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "twitter-manager-manchester" # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "Password2!" # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form" # features/step_definitions/web_steps.rb:20
  Then I go to the account page # features/step_definitions/web_steps.rb:16
  Then I should see "You're logged in as: twitter-manager-manchester" # features/step_definitions/web_steps.rb:100

Scenario: Correct password entered (Account Manager) # features/login.feature:83
  Given I am on the login page # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "accounts-manager-sheffield" # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "Password2!" # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form" # features/step_definitions/web_steps.rb:20
  Then I go to the account page # features/step_definitions/web_steps.rb:16
  Then I should see "You're logged in as: accounts-manager-sheffield" # features/step_definitions/web_steps.rb:100

Scenario: Correct password entered (Account Manager) # features/login.feature:91
  Given I am on the login page # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "accounts-manager-manchester" # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "Password2!" # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form" # features/step_definitions/web_steps.rb:20
  Then I go to the account page # features/step_definitions/web_steps.rb:16
  Then I should see "You're logged in as: accounts-manager-manchester" # features/step_definitions/web_steps.rb:100

Scenario: Correct password entered (Customer Page) # features/login.feature:99
  Given I am on the login page # features/step_definitions/web_steps.rb:12
  When I fill in "username" with "todd" # features/step_definitions/web_steps.rb:32
  When I fill in "password" with "Password2!" # features/step_definitions/web_steps.rb:32
  When I press "log in" within "form" # features/step_definitions/web_steps.rb:20
  Then I go to the account page # features/step_definitions/web_steps.rb:16
  Then I should see "You're logged in as: todd" # features/step_definitions/web_steps.rb:100

```

```

Feature: logout

  Scenario: Successful Login and Log out (General Manager)
    Given I am on the login page
    When I fill in "username" with "general-manager-manchester"
    When I fill in "password" with "Password2!"
    When I press "log in" within "form"
    Then I go to the account page
    Then I should see "You're logged in as: general-manager-manchester"
    Then I should see "Log Out"

Feature: Sending Retweet Competition

  Scenario: Correct password entered
    Given I am on the login page
    When I fill in "username" with "marketting-manager-sheffield"
    When I fill in "password" with "Password2!"
    When I press "log in" within "form"
  sheffield
    Then I go to marketmanager page
    Then I should see "Market Manager Dashboard"
    Then I go to the account page
    Then I should see "You're logged in as: marketting-manager-sheffield"
    Then I should see "Your account is of type: marketting_manager"

Feature: login_and_Empty_Field

  Scenario: Correct password entered (Twitter Manager)
    Given I am on the login page
    When I fill in "username" with "twitter-manager-sheffield"
    When I fill in "password" with "Password2!"
    When I press "log in" within "form"
    Then I go to the account page
    Then I should see "You're logged in as: twitter-manager-sheffield"
    <--- Executing conversationList()... --->
    <--- Executing updateDatabase() --->
  Checking if any of the recent tweets are already in the database...
    <--- Executing getListOfConversations()... --->
    Then I go to twittermanager page
    Then the "tweets_active" checkbox within "#column1" should not be checked
    Then the "tweets_handled" checkbox within "#column1" should not be checked
    Then I should see "Please select a conversation on the left"
    Then I should see "Conversation Details"
    Then the "branch" field within "#column3" should contain "Sheffield"
    Then the "rideOrigin" field within "#column3" should contain ""

20 scenarios (20 passed)
150 steps (150 passed)
0m4.762s
codio@waiter-diego:~/workspace/project$

```

Manual Testing

Twitter Manager

Your Account

Log Out

Filter Tweets

☐ Active

☐ Handled

Update

@Error

"Please select filters above"

@D0Nknow

Hello taxi homev @ise19team12

@ise19team12

@D0Nknow DONE WORK BUH BYE

Conversation Details

Branch: Unknown ▾

Update branch

Status: Handled

Create Ride

Origin: University of Sheffield, Pc

Destination:

Create Ride

This customer's home address is:

Here

Enter a reply...

Reply

This tweet came in with a geotag. The data from this geotag was successfully extracted and entered into the "Origin".

FAKE TWAXI

Filter Tweets
☐ Active
☐ Handled

@D0Nknow
"@ISE19TEAM12 TAXI PLS THANKS"

@D0Nknow
"@ise19team12 TAXI PLE"

@Ominous_Cloud
"@ise19team12 TAXI PLEASE!"

@ise19team12
"I would like a taxi from University please @ise19team12"

@ise19team12
"Do you do coaches? @ise19team12"

@ise19team12
"hello @ise19team12 how are you?"

@Ominous_Cloud
@ise19team12 TAXI PLEASE!

@ise19team12
@Ominous_Cloud Hey there, where would you like to be picked up from?

Conversation Details
Branch:

Status: Active

Create Ride
Origin:
Destination:

This customer's home address is: None

This shows the correct list of incoming tweets when tweets are filtered to show "Active".

28

FAKE TWAXI
☰

Filter Tweets

☐ Active

☐ Handled

Please select a conversation on the left

@D0Nknow

"Hello taxi homev @ise19team12"

@D0Nknow

"@ISE19TEAM12 TAXI PLS THANKS"

@D0Nknow

"@ise19team12 TAXI PLE"

@Ominous_Cloud

"@ise19team12 TAXI PLEASE!"

@ise19team12

"I would like a taxi from University please @ise19team12"

@ise19team12

"Do you do coaches? @ise19team12"

Conversation Details

Branch: Unknown

Status: Unknown

Create Ride

Origin:

Destination:

This customer's home address is: None

This shows all incoming conversations when the filters are set to "Active" and "Handled".

Twitter Manager Dash Board - Shows the active competitions and allows manager to make a new competitions and end competitions.



FAKE TWAXI
☰

Market Manager Dashboard

Date:

Tweet iD	Date of End Competition	Message	End Competition
123456	2013	Retweet to win a free ride Competetion ends on 2019-04-02	<input style="background-color: #ff8c00; color: white; padding: 5px 10px;" type="button" value="End Competition"/>

Car Manager - The Dashboard shows the vehicle list. Allows manager to Add and remove vehicles

Car Manager Dashboard

Taxi Number	Type of Vehicle	Available
124	Tandem Bicycle	Yes

Taxi Number:
Type of Vehicle:

Tandem Bicycle

Available:



Yes

Add/Change Vehicle

Vehicle ID:

Remove Vehicle

Customer- As a customer I can change my twitter handle and home address. View my offers and See m

You're logged in as: **alex**

Your twitter handle is: **@D0Nknow**

Twitter Handle:
Home Address:

update details

Offers

1. Free Ride From Retweet

UserTwitterID	Username	Date	Departure	Destination
---------------	----------	------	-----------	-------------

[Click here to return to the main page](#)
[Log Out](#)