TEAM X-CEL - ACCEPTANCE TESTS

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INTRODUCTION

This document will cover in detail how to perform acceptance tests for our application. Our application is entirely web based, and although we can make the unit tests fully automatic, it is not possible for the acceptance tests to run themselves.

We have broken down these tests into 7 sections, specifically the login, uploading of templates, generation of reports, graph of report, printing of reports ,viewing the trends and querying the data.

Note that in order to test the user stories, a **downloaded version** of the software is required. You can find the installation information here. **Please clone it locally**. Once you have it running, it should appear in your browser under **http://localhost:8080/**

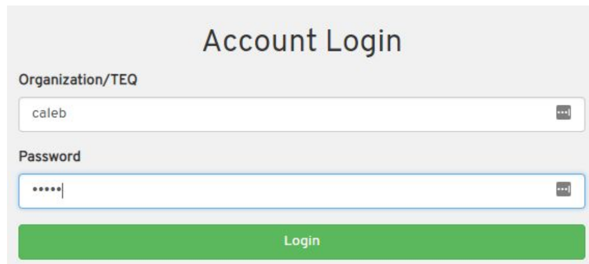
ACCEPTANCE TEST # 1

This section will cover how to test the login page and the creation of an account, as well as some smaller tasks like the workings of the navigation bar.

1. The ability to create an account

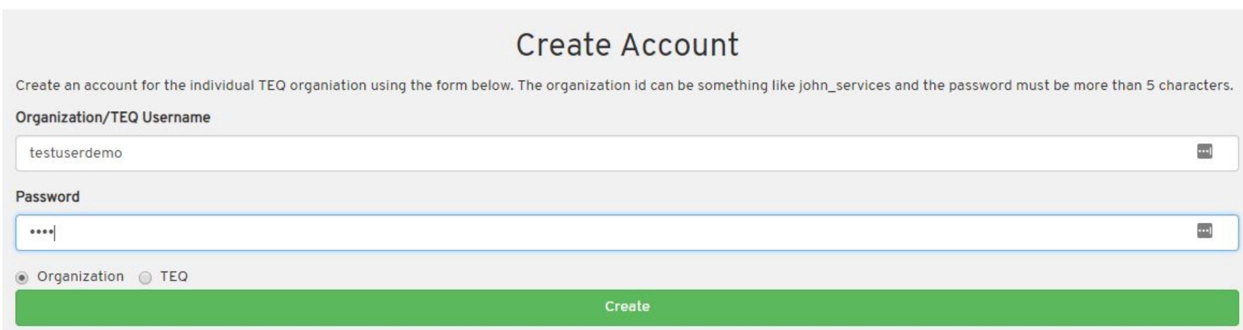
Only a verified TEQ member can create an account, whether that be of another TEQ member or an organization.

In order to perform this test, first you must first go to **/login** and enter the username **caleb** and the password is the same.



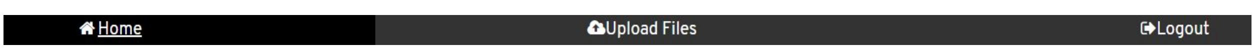
After you are logged in, hit the **Create** item in the navigation bar.

For our test case, we will enter the user as **testuserdemo** and the password as **test**. Make sure the **Organization** radio button is selected. After you have created the account, hit **Logout** in the navbar.



2. Having an organization member login

Now enter the credentials you had just defined, and hit login. You will firstly notice that the navbar items are different. This is because the TEQ and Organization accounts have access restricted access to pages.



3. Saving of local storage data

Now, immediately close the tab, and type **http://localhost:8080/** in your url bar. You will notice that you are still logged in, and this is testing the local storage data.

4. Protecting access of web pages

Since this is one web application, and we have two different types of users, we want to restrict the pages that each type of user can see. For example, go back and login again as **testuserdemo**. This is an organization account, and as such, should not be able to access the **/create** page which is used to create accounts. Try it out and see what happens. You will see that once you change your url to **http://localhost:8080/create**, you might catch a glimpse of the create page, but it will redirect you back to your homepage, so you cannot do anything more.

5. Other test cases

Some other test cases you can test for are the following:

Entering invalid credentials in the login page

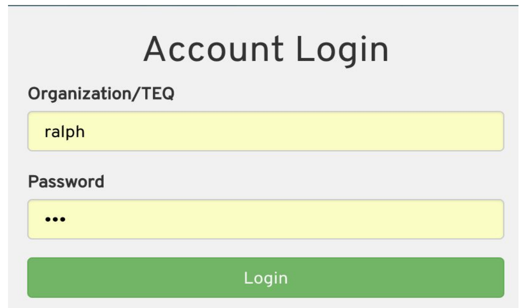
Creating an account with a username that has already been used in the past

ACCEPTANCE TEST # 2

This section will cover how to test the inserting of an iCARE template.

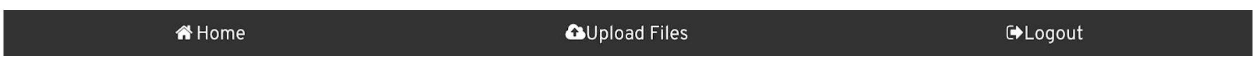
1.The ability to login as a member of the supporting agencies(organizations)

Only a verified supporting agencies member can upload files for TEQ members to generate reports. In order to upload files, first you will need to login as a member of the supporting agencies. Go to **http://localhost: 8080/login** and enter the username as **ralph** with password **qwe**.



2.Using navbar to access the upload-files page

With the correct username and the password provided by TEQ, you will be redirected to the homepage for organization members. And you will see the navbar at the top of the homepage.



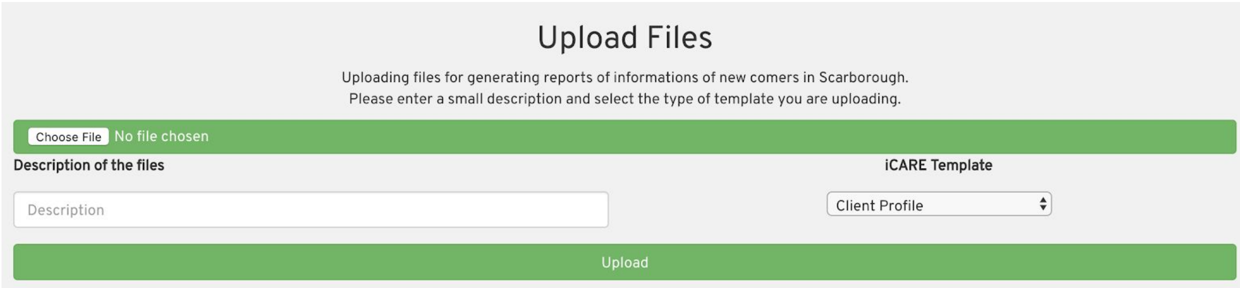
After login and see the right navbar, you will want to go to the **Upload Files** page by simply click on the **Upload Files** button.

3.Before upload

Before uploading any files, open the db/templates.db to see what is actually inside the database. After you upload, the information of the csv file will be added here. Also note that we have added a lot of testing data already in the templates.db.

4.Uploading files

You are able to upload files with different templates. First, you will need to click on the **Choose File** button to choose a file or files you want to upload. For **testing purposes**, please select the **iCARE Template (Client Profile)** we have provided in the **How-To/** folder. Then, you can enter a brief description of the files and select the **right template** of uploading files from the dropdown. **Select Client Profile.** Then, click on the **Upload** button.



After brief pause, you should see an alert that says the file has been uploaded. To verify this, open the **templates.db** file to see the information stored there (it might be hard to see the changes, however you can see that the size of the file changes).

5.Uploading the same file

Sometimes we might accidentally upload the same file, and this is problematic for the database. So, simply select the same file, keep the iCARE template as **Client Profile**, and hit upload. You should see the website tells us that the upload was successful, but you will see that the database does not change.

```
Entry with ID 12345678 already exists, skipping.
```

6. Uploading a different template

Organizations can upload templates of the different types. Upload the **iCARE Template (All)** and select **Employment** from the dropdown. **This might take a few more seconds than usual**. Now you should see that we have an entry for Employment in our database after our file uploads.


```
{"template":"Employment","entries":[{"Processing Details":"[BUID:305939,RID:,ORP:4/5,DTS:2018-08-07 10:05:0
```

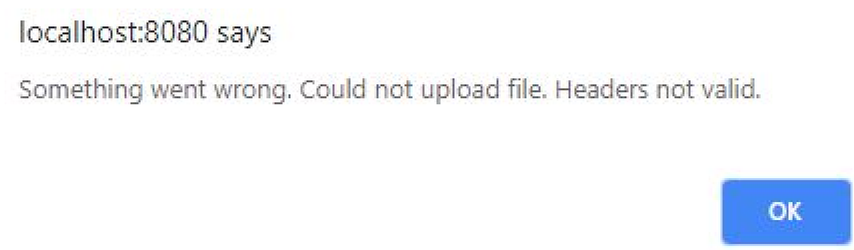

7. Uploading the same template, but with some info changed

In this test, we will upload the same template, but with some values modified. Select **iCARE Template (Client Profile) MODIFIED**. This file has the **Unique Identifier Value** changed and the **Official Language of Preference** set to **French.**

Upload this under **Client Profile**. You will see how the database object changes. This will become more visible in the next section.

8. Validating the headers of the file

There might be cases where an org tries to upload a certain type of template, but does not have the correct headers in its iCARE template. We can detect this. Go ahead and upload the **iCARE Template (Client Profile) MODIFIED**, but, select **Community Collections** in the dropdown. You should see the following message:

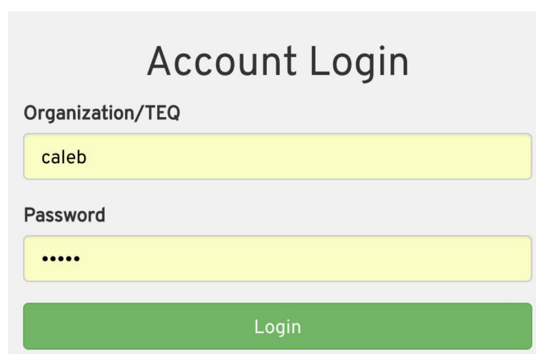


ACCEPTANCE TEST # 3

This section will cover how to test the generating of a report, based on the data that has been inserted.

1.The ability to login as a member of TEQ

Only a verified TEQ member can generate reports. In order to generate reports, first you will need to login as a member of the TEQ. Go to **http://localhost: 8080/login** and enter the username as **caleb** with password **caleb**.



2.Using navbar to access the Generate Reports page

With the correct username and the password, you will be redirected to the homepage for the TEQ members. And you will see the navbar at the top of the homepage.

After login and see the right navbar, you will want to go to the **Generate Reports** page by simply click on the **Generate Reports** button.

3.Generating Reports

You are able to generate reports in different templates. First, you will need to choose a template you want to generate a report for, and then a month.

When a template is uploaded, we record the month on the template, and so this will allow you to generate templates based off of month. For testing purposes, select **Employment** with month **2018-4**.

Employment - 2018-4

Headers	Clients	Services	Service Received
UNIQUE IDENTIFIER (See chart)			
Foss/gcms Client Id	13	6	46%
Imm5292, Imm5509, Imm1000 Number	8	3	38%
Temporary Resident Or Minister's Permit Number	9	3	33%
Total	30	12	40%
AGE (See chart)			
20-24	2	0	0%
24-28	3	2	67%
36-40	3	0	0%
40-44	2	0	0%
44-48	4	2	50%
48-52	3	2	67%
52-56	1	1	100%
56-60	1	1	100%
60-64	1	0	0%
64-68	3	2	67%
68-72	2	1	50%
72-76	2	1	50%

Firstly you will see that there is a lot of data (because we have inserted a lot of testing data). Secondly you can see the column name **AGE** and all of its options, **20-24, 24-28, ….** Also visible is the client/service ratio, which helps the TEQ is knowing how much of their services was actually performed.

ACCEPTANCE TEST # 4

This section will cover how to test the viewing of a graph once we have generated a report.

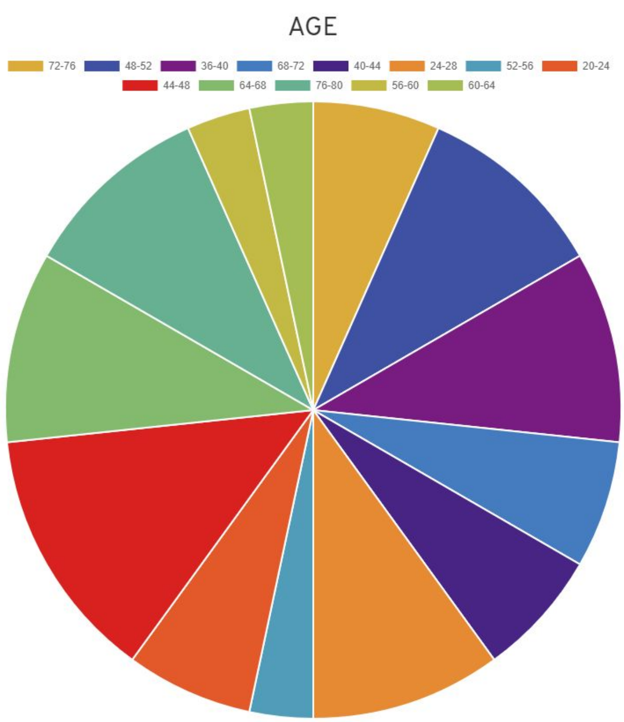
1. Viewing the pie chart

For testing purposes, generate a graph by clicking Generate, and selecting **Employment** with month **2018-4**. Then, hit the **See chart** button on **AGE.**

AGE (See chart)

You will see the following:

This will show you how the options for age are spread out. Hovering over the red region at about 7 o'clock, we see it says how many clients fall under this category.



Moreover, you can see the ratio of clients/services performed in the right-most column:

Read this as, for the age option 44-48, 4 clients qualified, and 2 services were performed (a total of 50%).

44-48	4	2	50%

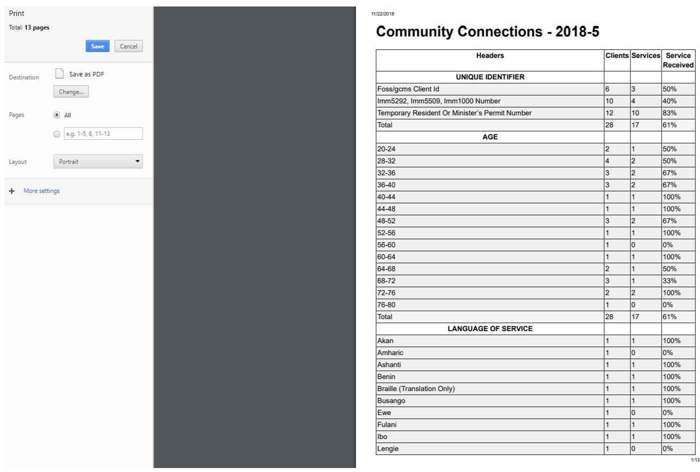
ACCEPTANCE TEST # 5

This section will cover how to print a report that has been generated.

1. Printing the report

For testing purposes, generate a graph by clicking Generate, and selecting **Community Collections** with month **2018-5**.

You will be presented with an HTML table, but instead, hit the **PRINT REPORT,** and a new window should pop up. This is what the TEQ will send to the government.



11/22/2018

Community Connections - 2018-5

Headers	Clients	Services	Service Received
UNIQUE IDENTIFIER			
Foss/gcms Client Id	6	3	50%
Imm5292, Imm5509, Imm1000 Number	10	4	40%
Temporary Resident Or Minister's Permit Number	12	10	83%
Total	28	17	61%
AGE			
20-24	2	1	50%
28-32	4	2	50%
32-36	3	2	67%
36-40	3	2	67%
40-44	1	1	100%
44-48	1	1	100%
48-52	3	2	67%
52-56	1	1	100%
56-60	1	0	0%
60-64	1	1	100%
64-68	2	1	50%
68-72	3	1	33%
72-76	2	2	100%
76-80	1	0	0%
Total	28	17	61%
LANGUAGE OF SERVICE			
Akan	1	1	100%
Amharic	1	0	0%
Ashanti	1	1	100%
Benin	1	1	100%
Braille (Translation Only)	1	1	100%
Busango	1	1	100%
Ewe	1	0	0%
Fulani	1	1	100%
Ibo	1	1	100%
Lengie	1	0	0%

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11/22/2018

Headers	Clients	Services	Service Received
Overseas Orientation Session (E.g. Ciip)	3	3	100%
School	1	1	100%
Total	28	17	61%
ACTIVITY UNDER WHICH CLIENT RECEIVED SERVICES			
Community-based Group Events And Activities	17	10	59%
Targeted Matching And Networking	11	7	64%
Total	28	17	61%
TYPE OF INSTITUTION/ORGANIZATION WHERE CLIENT RECEIVED SERVICES			
A Public Space (Shopping Centre, Etc.)	3	2	67%
Community Centre/neighbourhood House	1	1	100%
Employment Agency	3	1	33%
Healthcare Institution	1	1	100%
Not For Profit Organization	4	2	50%
Online	1	0	0%
Port Of Entry	3	1	33%
Post-secondary Institution	5	4	80%
Public Library	2	2	100%
Secondary School	1	1	100%
The Client's Home	3	2	67%
The Client's Place Of Employment	1	0	0%
Total	28	17	61%
TYPE OF EVENT ATTENDED			
Events/visits Pertaining To Culture Or History	5	2	40%
Field Trip Connecting Newcomer To Community Resources Or Local Services	6	5	83%
Neighbourhood Day	7	5	71%
Other Community Event	3	1	33%
Sports/recreation Event	7	4	57%
Total	28	17	61%
TYPE OF SERVICE			
Conversation Circle	8	6	75%
Networking Activity With Other Newcomers Or Canadian Citizens	6	4	67%
Other Regular Group Activities To Address Ongoing Needs Or Interests	3	1	33%

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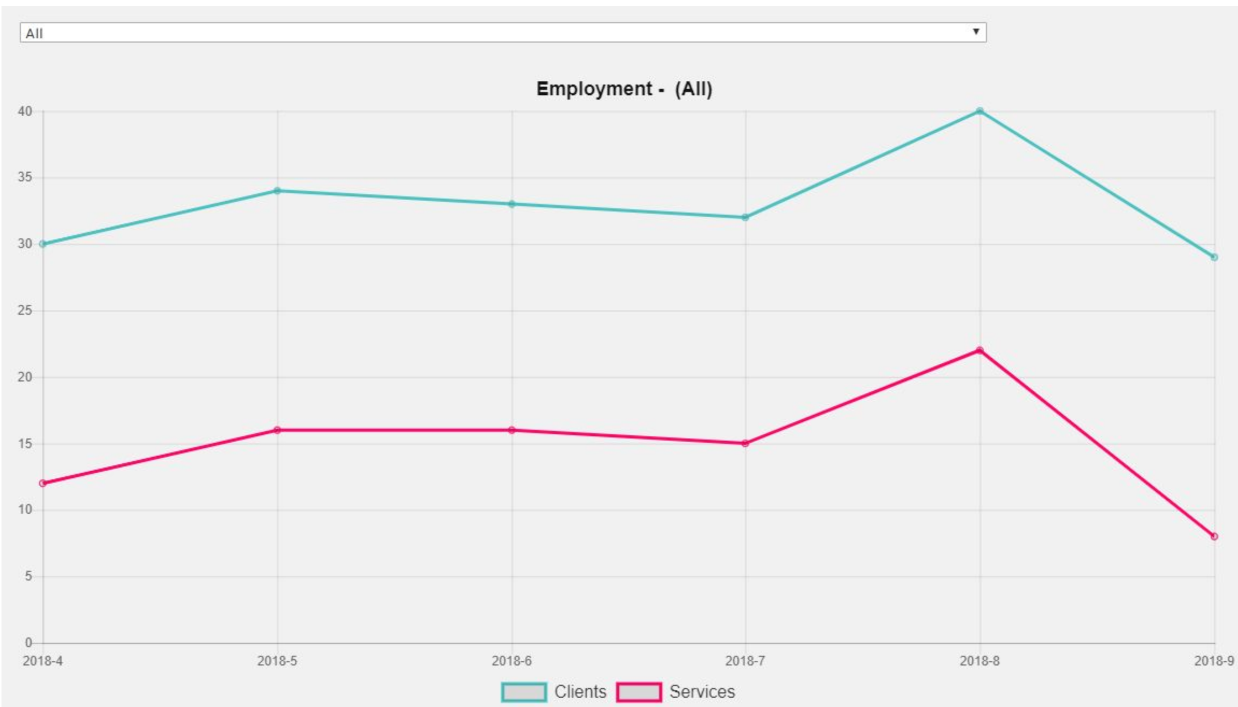
ACCEPTANCE TEST # 6

This section will cover how to view trends over the months for a particular type of report.

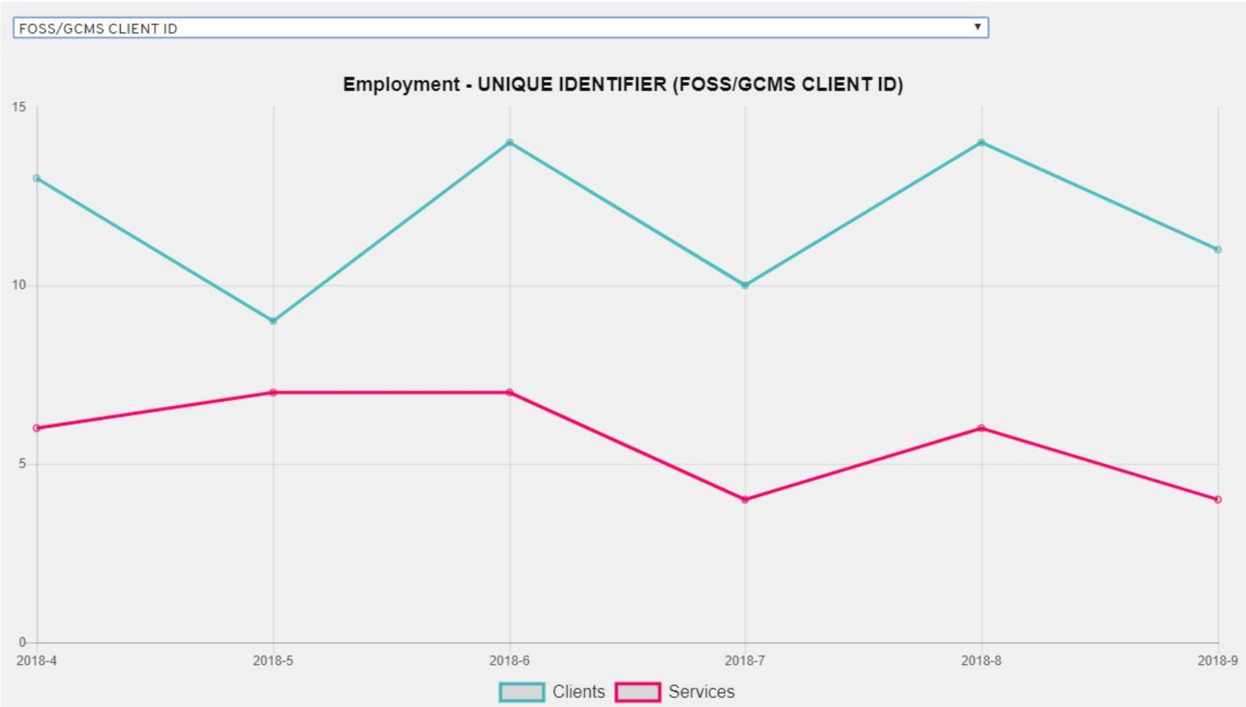
1. View trends for all/particular option

Close the print window if not done so already. Then select **Trends** in the navbar, and select **Employments.** It might take some time, but once done, you will be presented with this page:



This basically means that for the Employment template, at the month 2018-4, about 12 services were performed from a total of 30 clients.

Moreover, you can view trends for a particular option. From the dropdown, select **FOSS/GCMS CLIENT ID** under the **UNIQUE IDENTIFIER** option.



This shows the trends over the months in this specific option. Essentially for 2018-4, it shows that 6 services were performed, from a total of 13 clients who had this option.

ACCEPTANCE TEST # 7

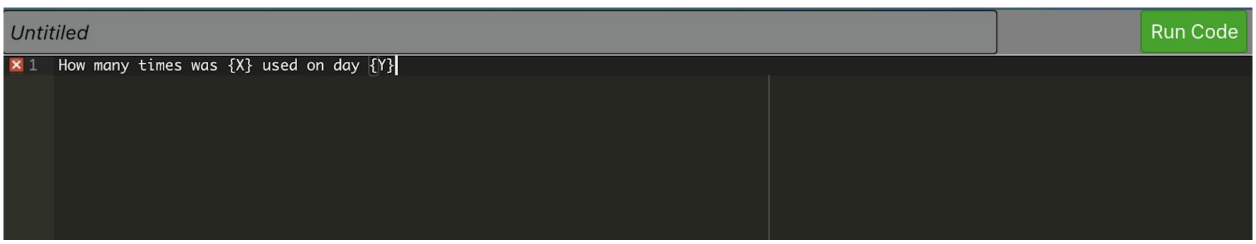
This section will cover how to use the query on generated reports.

Before we get started, you must be logged in as a TEQ employee, and click the **Query** page via the nav bar. Alternatively you can directly go to http://localhost:3000

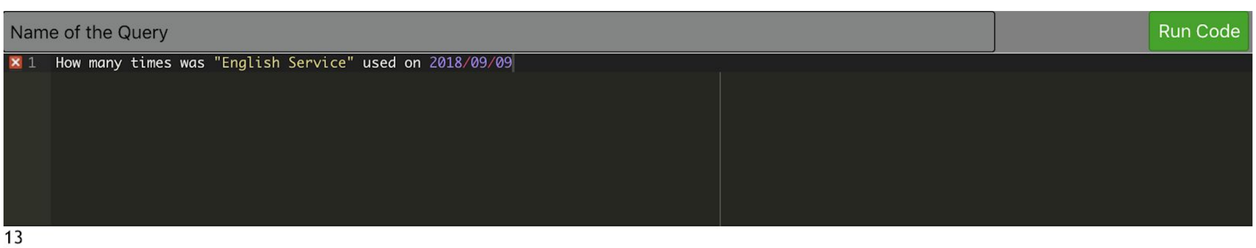
1. Run the query in the Text-Editor

There are two ways to run the query.

1. You can enter the query manually in the text-editor (Note: For testing purposes, please enter **How many times was "English Service" used on 2018/09/09** in the **Text Editor**).



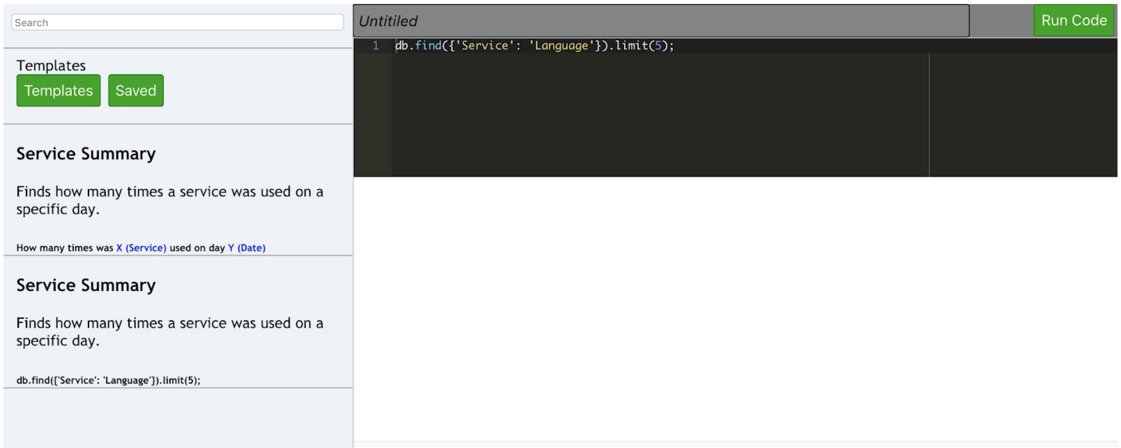
After click on the **Run Code** button, the result (**13**) will be displayed on the area right below the editor.




```
inside query ENGLISH measure:  clients template:  Needs Assessment&Referrals
RESULT: 13
```

Note: For testing purposes, the template used here is Needs Assessment & Referrals

2. You can simply click on the **Service Summary** (Note: For testing purposes, please select the **second Service Summary**) at the left and the chosen query(i.e. db.find({'Service': 'English'}).limit(5)) will pop up in the text-editor at the right.



You can run the query by clicking on the **Run Code** button and the results will be displayed in the same area.