Sprint 1 Wrap-Up Report

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Sprint Wrap Up

Sprint 1

ID	As a…	I want to be able to…	So that…	Priority	Status
1	Administrator	Parse transaction history	We can store information in our database	Must	Done
2	Administrator	Create graphs based off monthly expenses	We can create visual representation for the user	Must	Done
3	Administrator	Creating Database	Keeping track of user data over long periods	Must	Done
4	Administrator	Use python or C++	For logic and gui	Must	Done

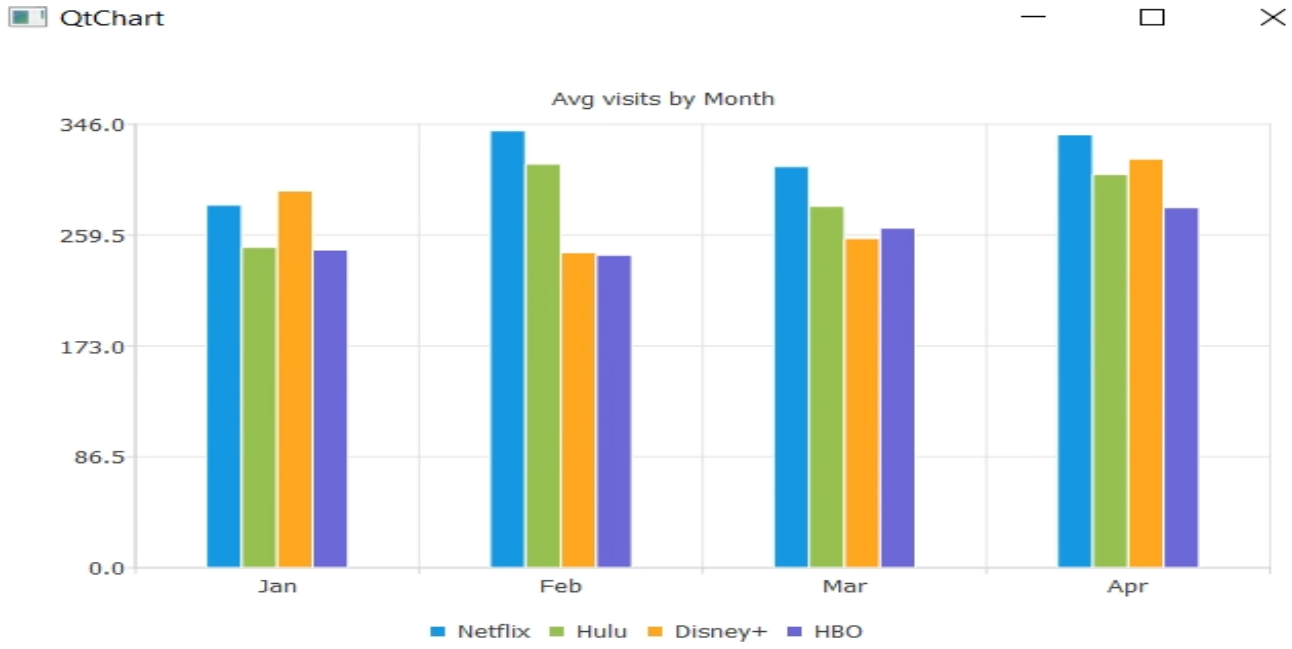
Sprint ID-1 - Parse Transaction History

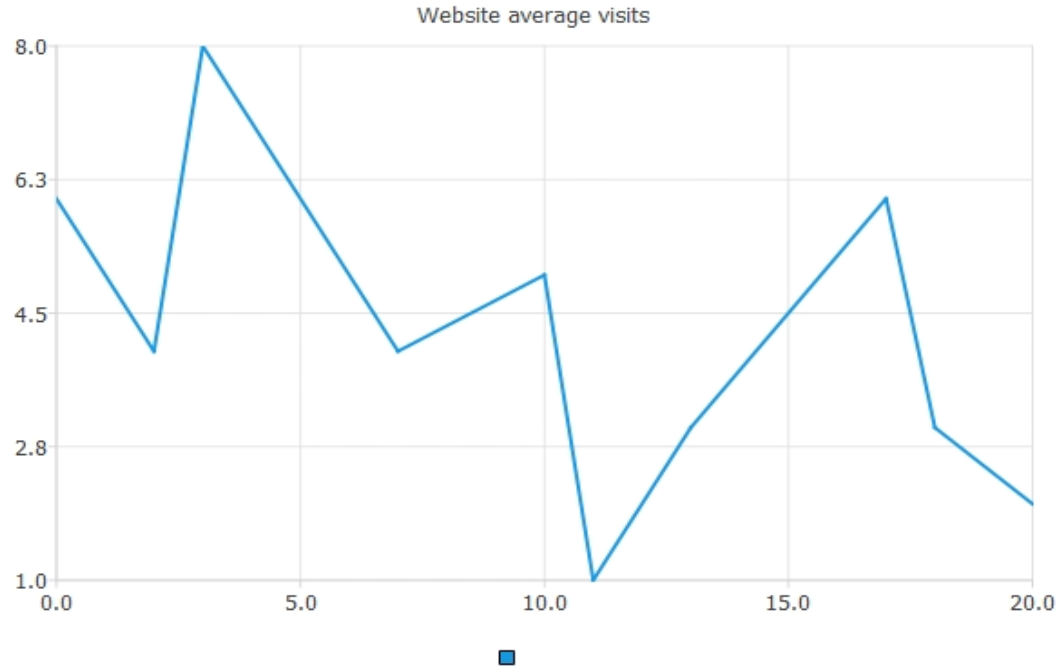
We were able to complete parsing through the transaction history. For this sprint all of the transaction data has been hardcoded into our database using SQL. So far we have one user with multiple purchases in the month of September and October. Each of the data fields are shown in Sprit-ID-4, but we are able to retrieve the necessary data we are looking for by using queries.

Sprint ID-2 - Create graphs based off monthly expenses

We were able to create graphs using qtCreator. The graphs have an animation upon loading up to create a fluid viewing experience. The image below shows an example of a bar

graph created using qtcharts library in qtCreator. Artificial data has been inserted into the graph in order to simulate and understand how the graphs will operate at the end. Color has been added to the legend for contrast.

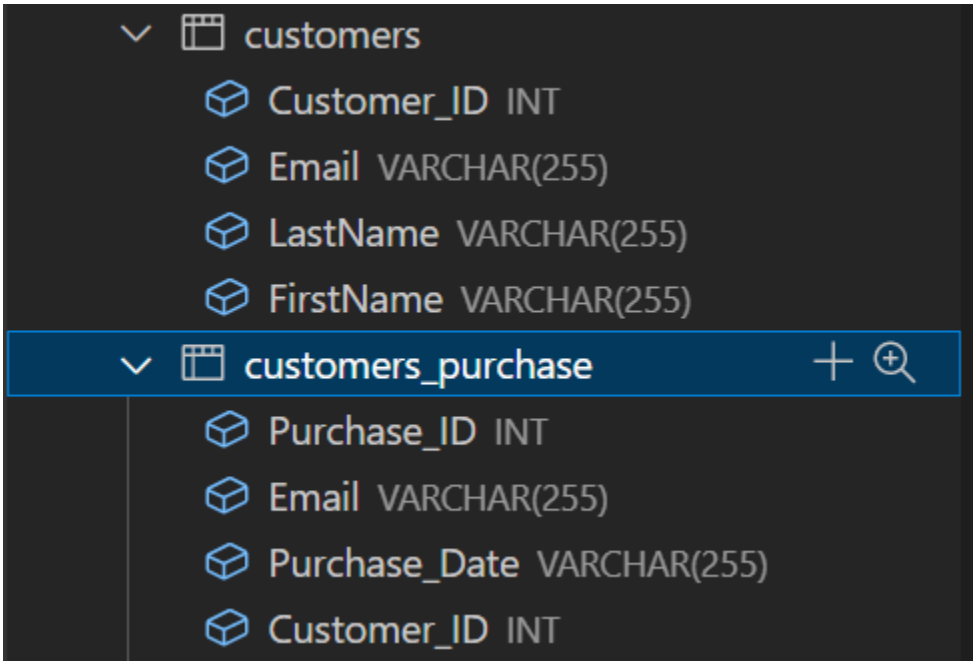




The image above shows a line graph created using QLineSeries in qtCreator. This will be used to display data in a different format (display statistics over a period of time, months). Having different graphs allows the user to process information in different perspectives. The addition of interactable buttons for the user to press in order to switch between different graphs can be something that can be added.

Sprint ID-3 - Create Database

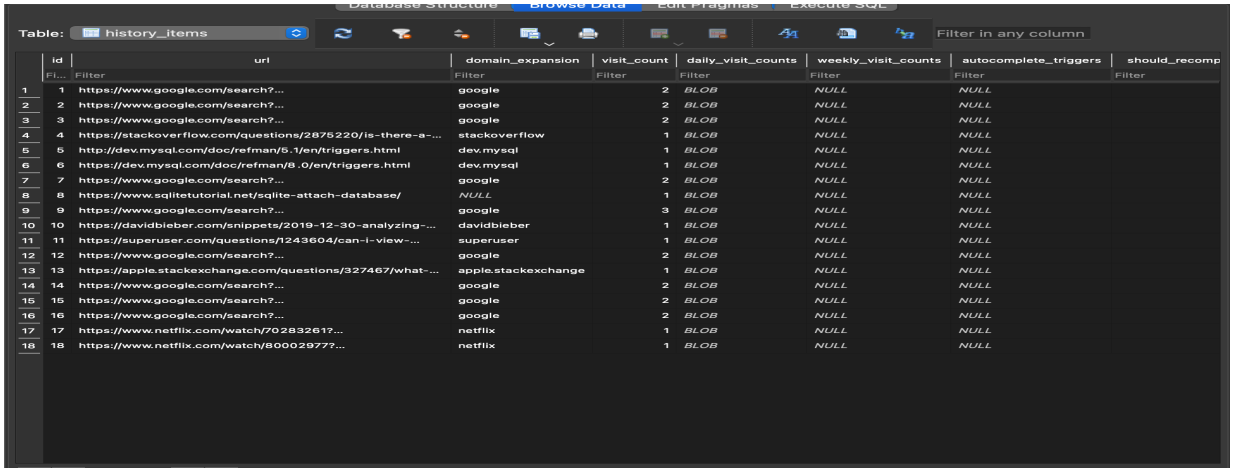
We were able to create a Database using Amazon Relational Database Services (RDS), which is a free fully managed, open-source cloud database hosted by Amazon Web Services(AWS). This database is hosted publicly and will be used to host users, information and transaction history. The database currently has two tables to handle customer information and customer purchases.



The database connects both tables with the Customer_ID instance. This way we can have one user mapped to many transactions.

Sprint ID-4 - Use python or C++

We will be using a combination of C++, Python, and SQL. Our database will be using SQL for data extraction and manipulation. We will also be using SQL for getting web history data. There is terminal command line “sqlite3 History.db ".recover" | sqlite3 new2.db” , which will update the new2.db file with the websites visited. This is where the python coding will come into play. The python code will create a text file with all the information about the sites visited so the C++ can evaluate the subscription information. We will use C++ for the GUI. The GUI will contain graphs, message displays and click-ons. So far the GUI uses the graph extension and we are using QT creator for the GUI.



Sprint retrospective

We are on track with our scrum sprint schedule. Our meetings have been twice a week. Once in the beginning of the week just to work together and do some work and once Friday so we can debrief on how much we have done. A lot of sprint one was to construct the groundwork of the project. Everyone has met their intended goal for this sprint.

Sprint 2

ID	As a…	I want to be able to…	So that…	Priority	status
1	Administrator	Know what the user's budget for each category	Can send alerts to the user	Must	To be started
2	User	Have option to limit expenses	The program can help hold user accountable to a budget	Must	To be started
3	User	View how much I have spent in any month	Keep mental track of expenses	Must	To be started
4	Administrator	Extract data from new2.db to a txt file	So we can use the data in our GUI code	Must	To be started