

Installing the Application:

To launch the application from the terminal:

- Make sure the machine the application is being run on has Java 14 installed. If problems exist ensure you are updated to the latest version.
- Next open the terminal and navigate to the .jar file location.
- When at the file location. Run the following code in the terminal:
`java -jar team7_seng202-1.0-SNAPSHOT.jar`

Making a New List:

When starting the application to begin a new list must be made to store data in. As many list can be created as is wanted but the data inside each is kept separate.

To make a list, firstly:

- Enter a name of the list in the text field next to the “Create new list” button.
- Next click “Create new list” this will create a list in the “Available Lists” table.
- To load the list you can either double click the list in the table or select the list and click the “Load list” button.

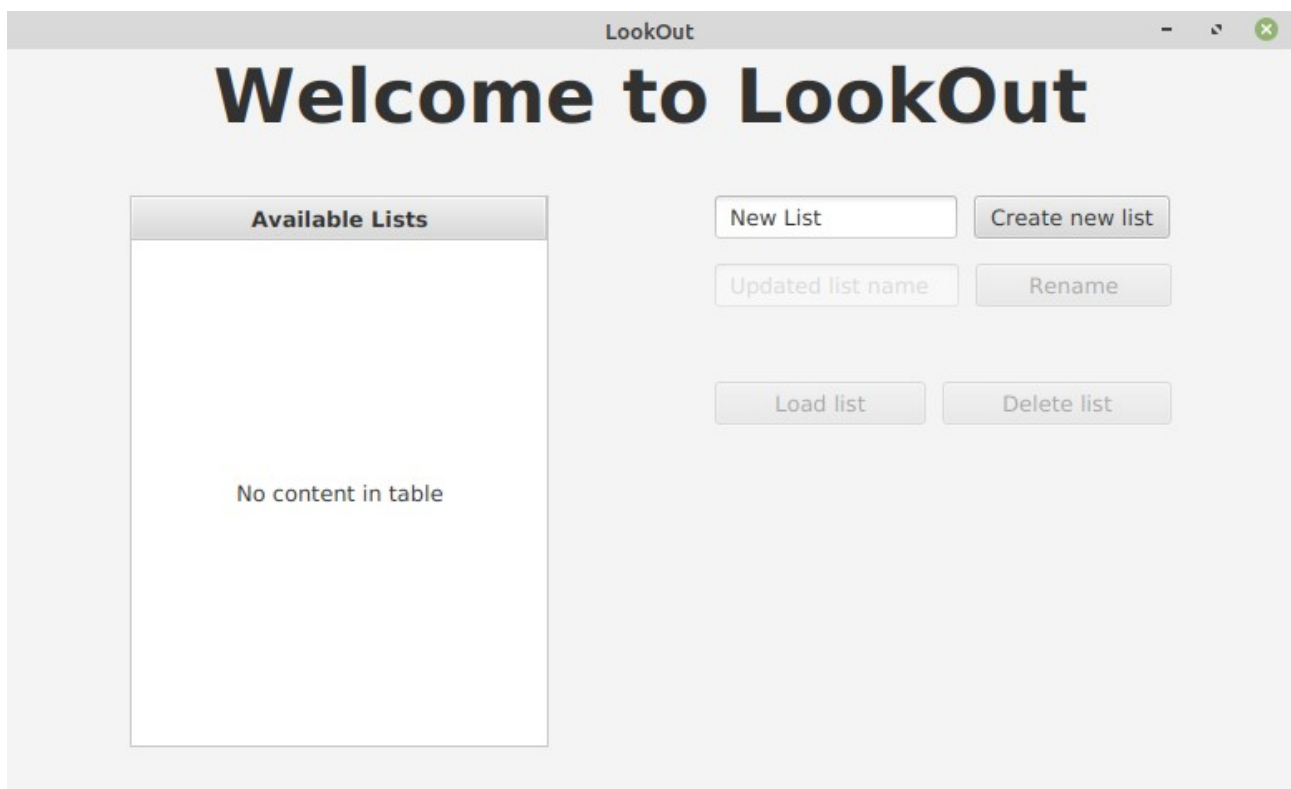


Figure 1: Making a new list.

Importing Data into the Application:

The application can have both “.CSV” and “.DB” files be imported, both of which need to have the correct schemas.

To import a file, firstly:

- Click the “Import” button in the Menu side bar.
- Next a screen will open to select the desired file. Only “.CSV” and “.DB” files be selected. Find the location of the file select it and click “Open”.
- Finally the application will ask how to import the data. Complete this and the data will be imported into the list. If there is an issue ensure the schema of the file is correct.

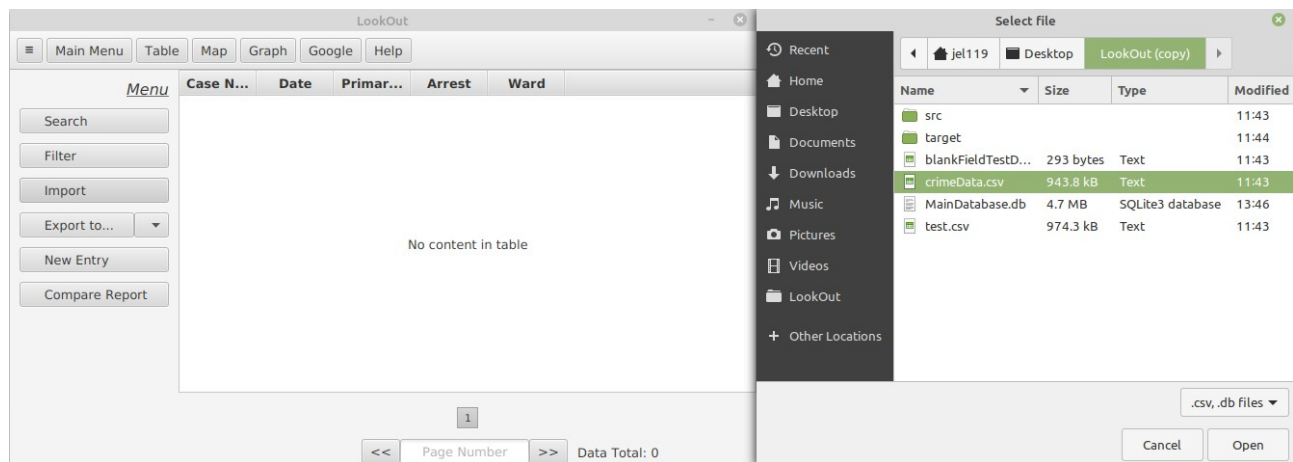


Figure 2: Importing CSV file into the application.

View Data in the Map:

The data can be viewed both as a table of raw data and as a set of pins on a map. To view the map click the “Map” button at the top of the application.

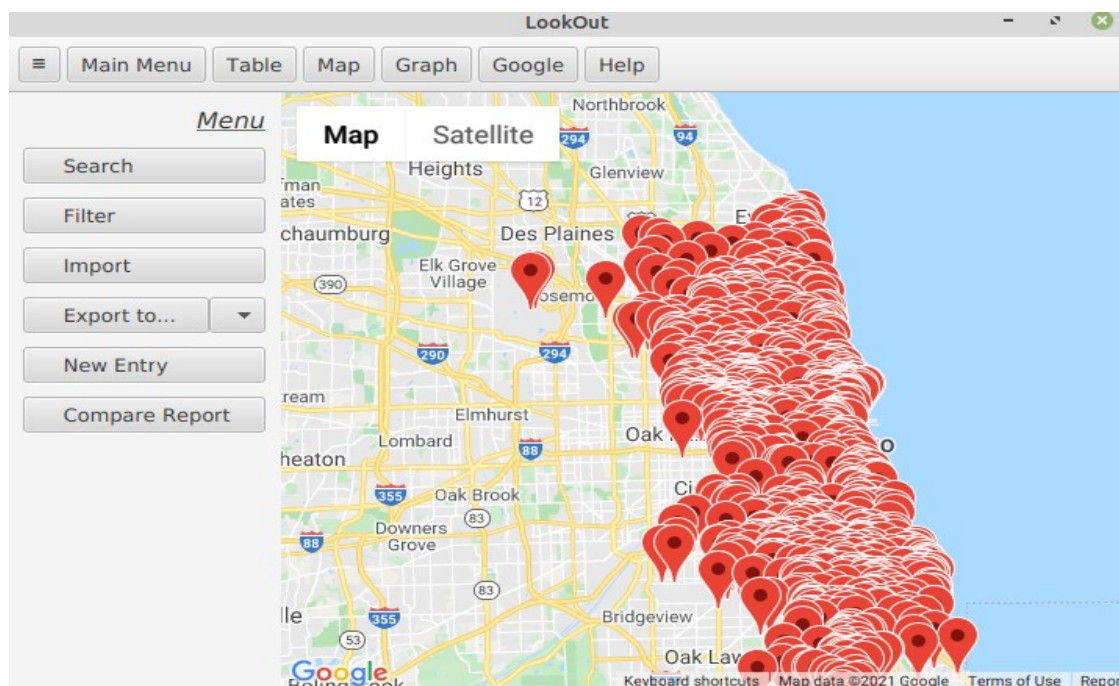


Figure 3: Viewing the data in the map.

Inserting New Data:

To insert a new crime entry into the data base firstly;

- Click the “New Entry” button this will load of page of empty feilds.
- Add all data needed to create a valid crime entry. (Note: Time of Occurrence must be in the form, “Hour:Minutes”.)
- Next click save. When going to save if any necessary fields are missing they will be shown as red, these must be added to save the data.

Also, to edit existing crime data you can double click the data row in the “Table” section. This will bring up a similar screen with data already existing and works the same way.

LookOut

Menu: Search, Filter, Import, Export to..., New Entry, Compare Report

General Information:

- Case Number: [Red outlined text box]
- Date of Occurrence: [Red outlined text box]
- Time of Occurrence: [Red outlined text box]
- Illinois Uniform Code: [Red outlined text box]
- FBI Crime Code: [Red outlined text box]

Location Information:

- Block: [Red outlined text box]
- Beat: [Red outlined text box]
- Ward: [Red outlined text box]
- X-Coordinate: [Red outlined text box]
- Y-Coordinate: [Red outlined text box]
- Latitude: [Red outlined text box]
- Longitude: [Red outlined text box]

Case Description:

- Primary: [Red outlined text box]
- Secondary: [Red outlined text box]
- Location Area: [Red outlined text box]

☐ Arrested ☐ Domestic Case

Back Cancel Save

Figure 4: Inserting data into the list.

Filter Data:

Filtering can be done by selecting the “Filter” button. This will load a set of fields that can be filled to add restrictions to the table's data. Also filters can be saved and loaded using the “Save” and “Load” buttons for persistent filters.

Filter Menu

Clear Load

Date [X]

Date [X]

ARSON

Location Des...

Ward

Beat

Arrest Made

Domestic Inci...

Save Apply

Case Number	Date	Primary Descript...	Arrest	Ward
JD332889	15-08-2020 00:02:00	ARSON	false	29
JD364574	12-09-2020 05:45:00	ARSON	false	9
JD364751	12-09-2020 10:34:00	ARSON	false	30
JD364816	12-09-2020 07:52:00	ARSON	false	37
JD385886	02-10-2020 00:01:00	ARSON	false	38
JD394465	09-10-2020 22:15:00	ARSON	false	27
JD394483	09-10-2020 22:15:00	ARSON	false	27
JD470346	26-12-2020 21:52:00	ARSON	false	9
JE266443	15-06-2021 03:00:00	ARSON	false	30

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Page Number Data Total: 9

Figure 5: Filtering data in the list.

Graphing:

Graphing has two types of graphs it generates. Either a bar graph created when selecting “Crime Statistics” or a line graph when clicking “Display Graph” the line graph can have restrictions put on the data by selecting fields such as type of crime, ward or beat.

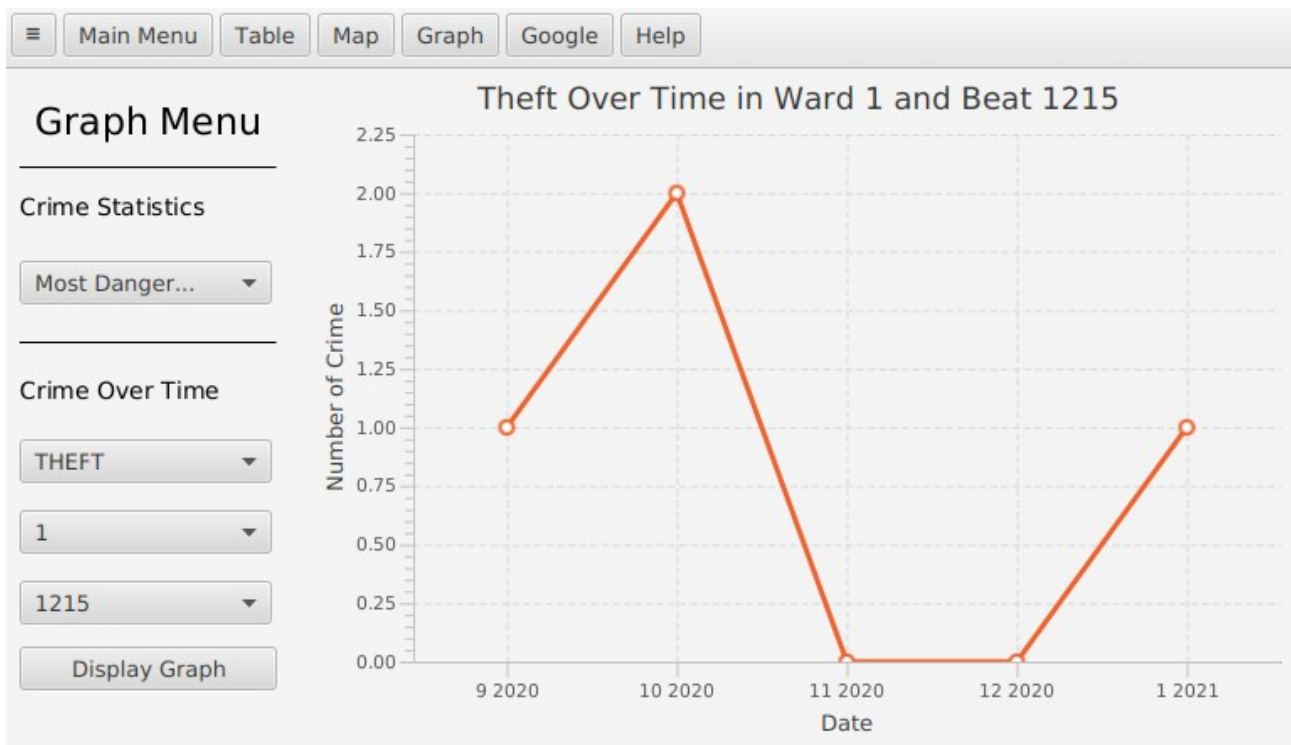


Figure 6: Graphing data in the applicaiton.

Export File:

To export a file, firstly;

- Open the Menu so that you can select “Export to...”
- Next either click the button to export the current data within the table (which is equivalent to exporting with filter) or click the down arrow button to have the option export without the filter.
- This will open a menu similar to importing expect now it is exporting the data as either a “.CSV” or “.DB”. Goto the location you wish to save the file.
- Give the file a name and select from the file export to either save it as a “.CSV” or “.DB” and click “Save”

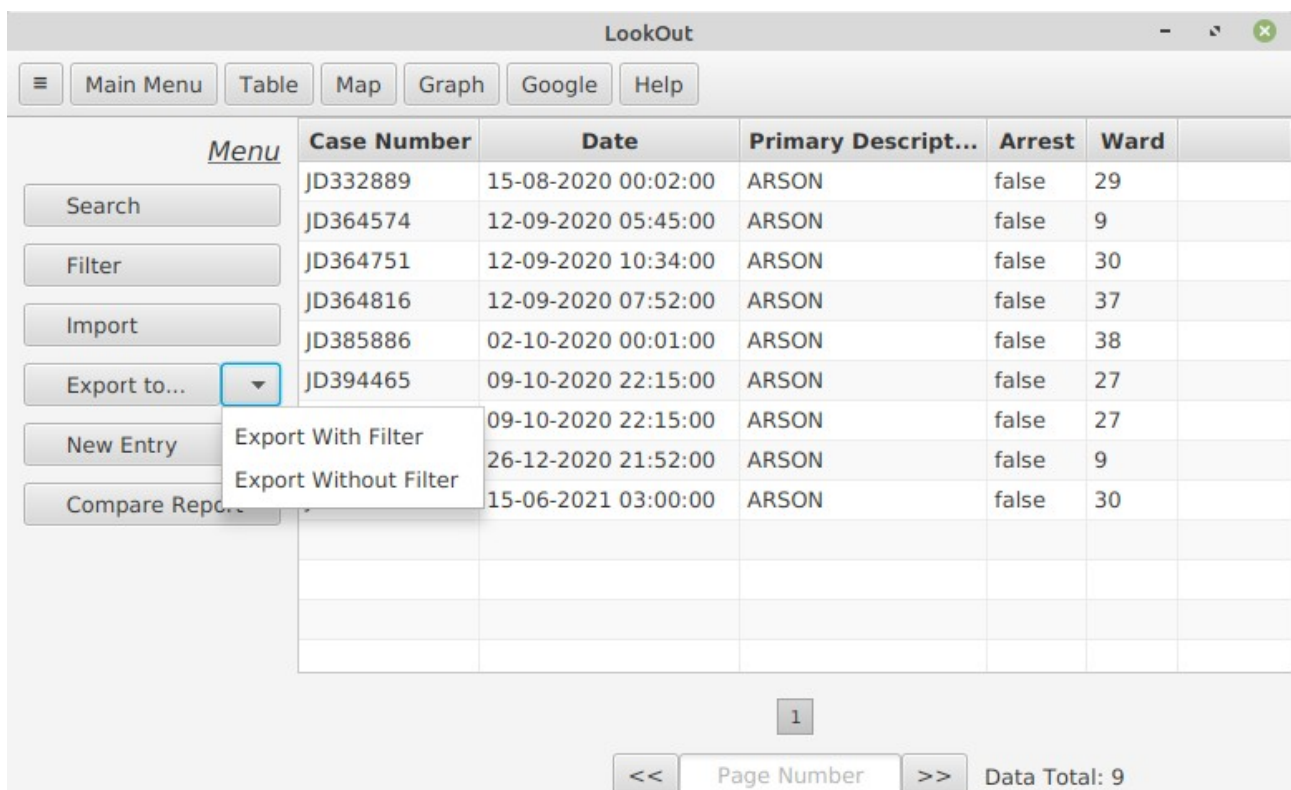


Figure 7: Exporting data out of the application.