Proposed application names

The name of the application will be named Public Art Hamilton because the name explains the application a bit, the user will know the application has something to do with Public Art and its location named Hamilton.

Brief description of the purpose of the application

This application will display a map of Hamilton to the user with the user's current location on the map and markers of all the public art locations on the map within Hamilton. User can get directions from their current location to the selected location.

Description of your target audience

The target audience for this application is tourists that visit Hamilton and Hamilton locals. Tourists that visit Hamilton may want to visit public art locations so they can see what Hamilton has to offer for art. Hamilton locals may want to learn more about their city and the public art they may have missed because Hamilton is a decently sized city and they will be able to see what locations they haven't visited yet. Both target audiences need an application to list the public are areas around them.

List of what tasks this application will allow users to perform

Allows user to click markers on the map and show information on the selected location.

Let the user filter the markers based on the certain location in Hamilton.

Let the user to get directions from current location to selected location.

Allows user to show current location with geolocation on their browser.

Description of how this application will allow users to perform each task

Allows user to click markers on the map and show information on the selected location.

When the user loads the application, they will see a map will all the public art locations in Hamilton. They will procced to click on the location marker they are interested in. When a marker is clicked an information window will pop up and user will see all the information of that location. Use the gMaps.js to create the map with markers of all the locations in Hamilton. When creating the markers each marker will have an info window that stores information for that certain marker.

Let the user filter the markers based on the certain location in Hamilton.

After the application loads the user will see a group of buttons above the map. There will be 6 buttons, listed as All, Dundas, Waterdown, Stoney Creek, Hamilton, Ancaster. When one of these buttons are selected the map will change the markers depending on the button selected. For example, if the user selects the Stoney Creek button all the public art locations in Stoney Creek will be displayed. Program will create buttons in div containers. Every button will have an JavaScript onclick event. When a onclick event is ran it will search through the open data and display certain markers based on area.

Let the user to get directions from current location to selected location.

After the application is loaded and the program has the user's current location the user can click the directions button or link. When this button is clicked a route will be created on the map or the user will be directed to a google map direction page with the markers location information already entered. gMaps.js will be used to display the route from the user's current location to the selected marker. The info window for each marker will have a link to a Google map direction map so the user can click the link find directions on Google maps.

Allows user to show current location with geolocation on their browser.

When the user loads onto the page the browser will ask the user if they want to give the application their current location. The user can select yes or no. If the user selects yes, their location will be displayed to the map. If the user selects no there will be a message below the map giving the user an error that it can't get their location. Also, if the user selects no to giving their current location the map will still display the markers of Hamilton but will not display a marker for the user. The application will use the HTML5 Geolocation API to allow the program to get the users location and display the error messages if the program can't get the users location.

The set(s) of location open data this application will use

The data used for this program comes from https://www.hamilton.ca/city-initiatives/strategies-actions/open-data-program under the category Public Art. The data is from a CSV file that was changed into a text file.

A**dditional data or content your application will use**

The Google Maps API is going to be used with gMaps.js, the HTML5 Geolocation API, Bootstrap API, jQuery API are going to be used to help create this application.

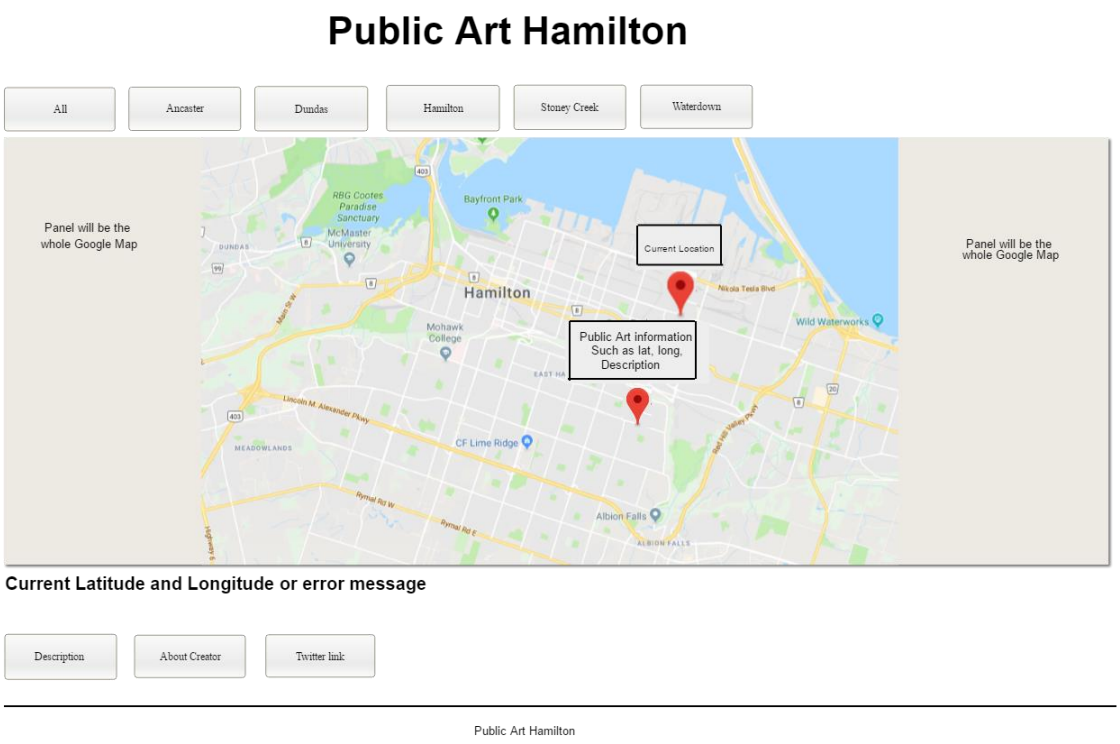
How this application will elegantly handle different screen sizes

Responsive design will be used for the application to handle different screen sizes. On desktops application will have a title at the top with a map below with buttons running across the top. Below the

map will be buttons for About the application, Directions and other options. When on a smaller screen such as a phone the buttons will change from being horizontal to being vertical, the map will get smaller, buttons on the bottom will change from being horizontal to being vertical so the application looks nic on both desktop and mobile.

2 mockup application screens illustrating the design of this application

Desktop mockup when the screen is large.



Mobile mockup when the screen is small.

Public Art Hamilton

All

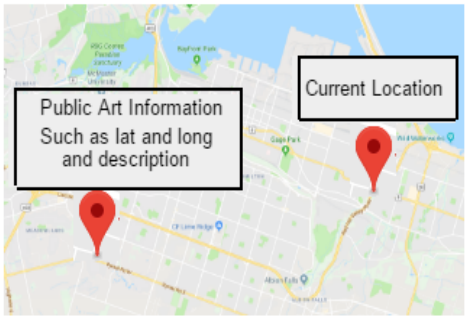
Ancaster

Dundas

Hamilton

Stoney Creek

Waterdown



Description

About Creator

Twitter Link

Public Art Hamilton