### EC 601 PROJECT2- "Restaurant Discovery Plan website” description

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***Product Mission Statement:***

I have named my product "Restaurant Discovery Plan website”, and it is an html website. In this product, users can explore which restaurants are available at any location on a map. That is to say, users can click on any location to check restaurants nearby. This product allows users to make informed decisions about where to find the restaurants they desire.

Also notice that I set the radius of restaurant to be searched as 1000m from location.

***Product User Stories:***

Mary is a newcomer to Boston and is unfamiliar with the restaurants available in the city. She wants to use "Restaurant Discovery Plan website” to discover restaurants in different locations in Boston.

Jessy found herself in an unfamiliar location due to a business trip and is looking for a place to have lunch. She doesn't know which restaurants nearby serve the type of cuisine she prefers. She wants to use "Restaurant Discovery Plan website” to identify locations with restaurants that match her preferences.

***MVP (Minimum Viable Product):***

My website should at least allow users to click on a location ,and then website should displays the latitude and longitude and the names of nearby restaurants. My website should also show the user's current location with a marker when the app is opened.

***Using Third-Party APIs to Demonstrate User Stories:***

Below is my code, which is also available in the "project2.html" file for reference.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width,initial-scale=1.0">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<title>Restaurant Discovery Plan website</title>

<style>

#map {

height: 400px;

width: 100%;

}

</style>

</head>

<body>

<h3>My Google Maps Demo</h3>

<!--The div element for the map -->

<div id="map"></div>

<script>

function initMap() {

//create current location, and make a mark

if (navigator.geolocation) {

navigator.geolocation.getCurrentPosition(function (position) {

var userLatLng = {

lat: position.coords.latitude,

lng: position.coords.longitude

};

var options = {

zoom: 8,

center: userLatLng

};

var map = new google.maps.Map(document.getElementById('map'), options);

//create current location, and make a mark

var marker = new google.maps.Marker({

position: userLatLng,

map: map,

title: "my location"

});

var infoWindow = new google.maps.InfoWindow();

var service = new google.maps.places.PlacesService(map);

google.maps.event.addListener(map, 'click', function (event) {

var latLng = event.latLng;

service.nearbySearch({

location: latLng,

radius: 1000, // Search radius is set as 1000 meters, which mean search restaurant inside 1000m

type: 'restaurant' // search restaurant

}, function (results, status) {

if (status === google.maps.places.PlacesServiceStatus.OK) {

var content = '<h1>longitude: ' + latLng.lng() + '</h1><h1>latitude: ' + latLng.lat() + '</h1><h1>restaurant:</h1>';

for (var i = 0; i < results.length; i++) {

content += '<p>' + results[i].name + '</p>';

}

infoWindow.setContent(content);

infoWindow.setPosition(latLng);

infoWindow.open(map);

} else {

// if no restaurant nearby,

var noRestaurantMessage = '<h1>longitude: ' + latLng.lng() + '</h1><h1>latitude: ' + latLng.lat() + '</h1><p>no restaurant nearby</p>';

infoWindow.setContent(noRestaurantMessage);

infoWindow.setPosition(latLng);

infoWindow.open(map);

}

});

});

});

}

}

</script>

<script async defer src="https://maps.googleapis.com/maps/api/js?key=AIzaSyCqLZg5nF9bP7qiw9mTKGfrqdANINyHiH4&callback=initMap&libraries=places" >

</script>

</body>

</html>

Effect of code: following pictures shows effect of code





