Fishing Hole

An Android Application by Jonathan Brashears

What is Fishing Hole?

Intro

Fishing Hole is an android application that works with Google's Map API.

It allows fishermen to pin their favorite locations on the map and store it along with pertinent information, including fish species, fish size, ocean temperature, and ocean depth.

Why?

My Uncle is an avid fisherman and often mentions that he wishes he could store his favorite spots and navigate to them.

Fishing Hole takes this a step further and also allows its users to share their fishing spots with other users.

Main Requirements

- Allow the creation and storage of pins on a map.

- Allow users the ability to search their pins easily

- Allow users to share their pins with friends who also use the app

How it works

Pin Creation

The process starts with the user initiating a pin creation request. Fishing Hole then requests the map information from Google.

Upon successfully retrieving the map information, Fishing Hole prompts the user to fill in various fields related to the pin.

Once the user confirms, the information is sent to the database and stored.

Viewing and Searching Pins

This process starts when the user selects the "View Pin" option. The user is then prompted with a list of their pins or given the option to search their pins.

If the user elects to search, they are prompted to enter a search term. Fishing Hole then queries the database for matches. This allows users to search for spots where they have previously caught a certain type of fish.

Upon selecting a specific pin, the more detailed information is displayed.

Sharing Pins

This process is initiated by the user selecting the "Share Pin" option.

This can be done from the main screen, or while a pin is already selected.

If done from the main screen the user is prompted to search his or her fishing spots to share.

Once a pin is selected, the user is asked to enter a username or email to share with. The username is checked with the database, and the pin is added to the account.

The Database

Fishing Hole ER Diagrams

Jonathan Brashears

User
User ID
First
Last
Email
Username
Password

Locations
Location ID
Latitude
Longitude

Fish
Fish ID
Species
Size

Oceanographic
Ocean ID
Depth
Temperature

User		
int	User ID	Primary Key
string	First	
string	Last	
string	Email	
string	Username	
string	Password	

Locations		
int	Location ID	Primary Key
double	Latitude	
double	Longitude	

Oceanographic		
int	Ocean ID	Primary Key
double	Depth	
double	Temperature	

Fish		
int	Fish ID	Primary Key
string	Species	
string	Size	

The User Interface

Fishing Hole User Interface

Allows Users to access profile settings

Allows users to open the pin creation menu

Allows users to view their pins

Opens menu to share pins with other users

Allows user to logout

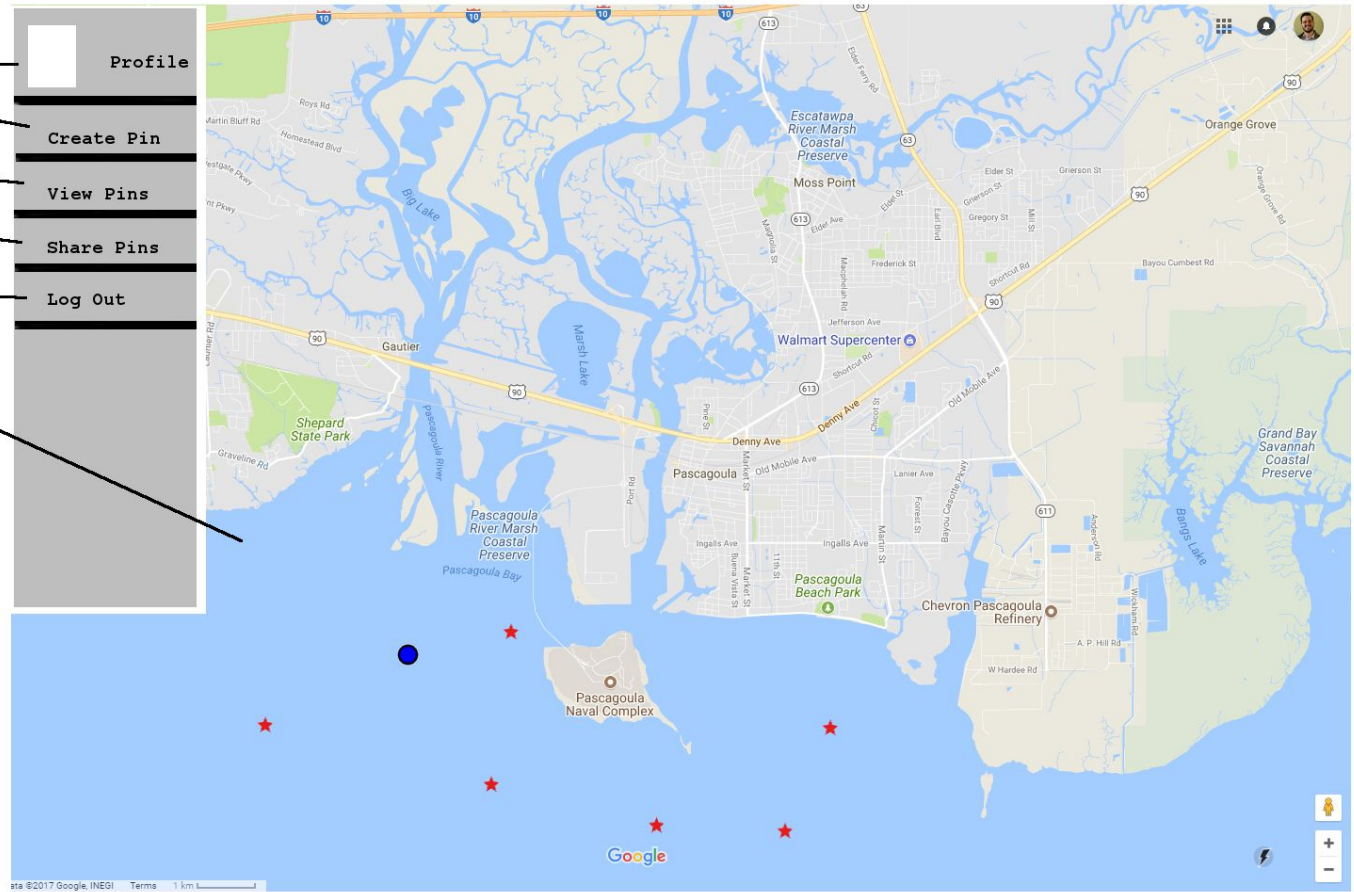Map From Google Maps API

Profile

Create Pin

View Pins

Share Pins

Log Out

Map Key

● Current Location

★ Pins

User Interface for Create Pin Option

User Interface for View Pins Options

User supplied fields for
pin details

Pin Title

Fish Species

Fish Size

Temperature

Depth

Create Pin

Confirm

Cancel

Cancel creation

Search Pins

Search Pins

Cancel　　　　　　**Go**

List of Pins/List meeting search criteria

Select Pin
from list

Pin #1

Pin #2

Pin #3

Cancel

Cancel

Displays information
of selected pin

Pin Title

Fish Species

Fish Size

Temperature

Depth

Opens options to share pin

Share Pin

User Interface for Share Pin Option

Enter the username you want to share with

Search bar

Enter username to share pin with

Cancel   Go

Cancel

Search

Search for pins to share

Search for pin to share

Search bar

Cancel   Go

Cancel   Search

Search Results

Search Results

Username/email not found error

Share Pin

Opens view pin window

Pin #1

Username not found. Please try again.

View Pin   Share

Cancel   Try Again

Pin #2

View Pin   Share

Cancel

Reopens username search

Pin #3

View Pin   Share

Conclusion

This project was interesting and I learned a lot about the work that goes into creating even a very simple application.

Not incredibly attached to the idea

Thanks