

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	Locations	Fish	Oceanographic
User ID	Location ID	Fish ID	Ocean ID
First	Latitude	Species	Depth
Last	Longitude	Size	Temperature
Email			
Username			
Password			

User			Locations		
int	User ID	Primary Key	int	Location ID	Primary Key
string	First		double	Latitude	
string	Last		double	Longitude	
string	Email				
string	Username		Oceanographic		
string	Password		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

Profile

Allows users to open the pin creation menu

Create Pin

Allows users to view their pins

View Pins

Opens menu to share pins with other users


Share Pins


Allows user to logout

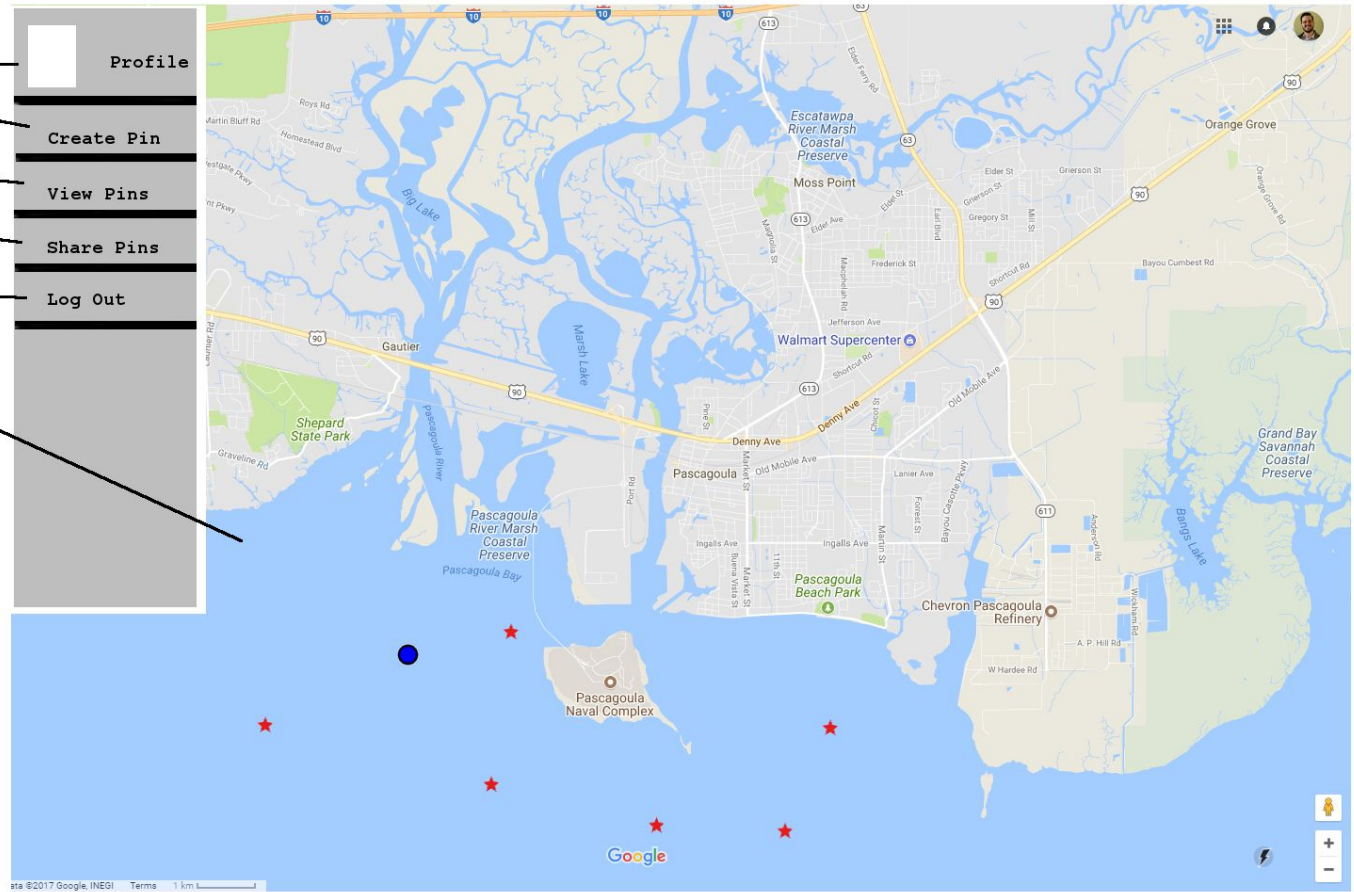
Log Out

Map From Google Maps API

Map Key

 Current Location

 Pins



User Interface for Create Pin Option

User supplied fields for pin details

Pin Title

Fish Species

Fish Size

Temperature

Depth

Create Pin

Confirm

Cancel creation

Cancel

This diagram illustrates the 'Create Pin' user interface. It features a vertical stack of five input fields labeled 'Pin Title', 'Fish Species', 'Fish Size', 'Temperature', and 'Depth'. To the left of these fields, the text 'User supplied fields for pin details' has five arrows pointing to each field. Below the input fields are two buttons: 'Confirm' and 'Cancel'. To the left of these buttons, the text 'Create Pin' has an arrow pointing to the 'Confirm' button, and the text 'Cancel creation' has an arrow pointing to the 'Cancel' button.

User Interface for View Pins Options

Search Pins

Search Pins

Cancel

Go

List of Pins/List meeting search criteria

Select Pin from list

Pin #1

Pin #2

Pin #3

Cancel

This diagram illustrates the 'View Pins Options' user interface. At the top is a search section with a label 'Search Pins' and a text input field. Below the input field are two buttons: 'Cancel' and 'Go'. Below the search section is a list titled 'List of Pins/List meeting search criteria'. The list contains three entries: 'Pin #1', 'Pin #2', and 'Pin #3'. To the left of the list, the text 'Select Pin from list' has three arrows pointing to each of these three entries. At the bottom of the list is a 'Cancel' button, with an arrow pointing to it from the label 'Cancel'.

Displays information of selected pin

Pin Title

Fish Species

Fish Size

Temperature

Depth

Share Pin

Opens options to share pin

This diagram illustrates the 'View Pins Options' user interface, showing the details of a selected pin. It features a vertical stack of five input fields labeled 'Pin Title', 'Fish Species', 'Fish Size', 'Temperature', and 'Depth'. To the left of these fields, the text 'Displays information of selected pin' has five arrows pointing to each field. Below the input fields is a 'Share Pin' button. To the left of this button, the text 'Opens options to share pin' has an arrow pointing to the 'Share Pin' button.

User Interface for Share Pin Option

Enter the username you want to share with

Enter username to share pin with

Search bar

Cancel

Go

Cancel

Search

Search for pins to share

Search for pin to share

Search bar

Cancel

Go

Cancel

Search

Username/email not found error

Username not found. Please try again.

Cancel

Try Again

Cancel

Reopens username search

Search Results

Search Results

Pin #1

View Pin

Share

Pin #2

View Pin

Share

Pin #3

View Pin

Share

Opens view pin window

Share Pin

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