

Senior Project: Proposal

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Computer Science

Overview

As an avid fisherman, I've always wanted an easy and detailed way to track my catches. A paper journal is common, but it's 2015, no one writes in a paper journal anymore, especially when the most important part of a trophy catch can't be written down: the photo. I have created an iOS application called Anglers' Log that allows users to track, analyze, and share their catches in the sport of fishing. For this project I want to develop the same application for Android devices.

Goals

Despite having already developed the application for another platform, there is still a lot to learn. The only real advantage I gain is knowing what the UI will look like. I have learned a lot about object design recently which will be a huge advantage when I redesign the back end application model.

Anglers' Log for Android will be written in Java and utilize the Android SDK and APIs. I will use Eclipse ADT as it is the official IDE of Android development and includes the required SDK and device emulators. I will be expanding my Java knowledge, using new APIs, and gaining experience in a new development environment. Most importantly, I will have the skills to develop for both iOS and Android devices, which will look great on a resume.

By the end of the Winter 2016 semester, I expect Anglers' Log to be available for download on Google Play.

Features and Grading

Features

Feature	Points
Entry management (add, remove, edit, sort)	20
Entry display (list of entries; tapping will open a detailed view)	15
Users can attach multiple photos to an entry	10
Species, location, baits, etc. management (add, edit, remove)	25
Species, location, baits, etc. display	20
Photo gallery of all photos added by the user	10

Detailed statistics	10
Extremely customizable (users enter species, locations, baits, etc.)	25
Location services are used to associate GPS with a user's fishing spots	10
Locations are displayed on a map with pins for each fishing spot	10
Users interact with a map to add locations and fishing spots	15
Persistent data storage	10
Backup options (Google Drive, export to file, import from file)	25
Export in a format that can be read by iOS and vice versa	5
Advertisements	10
In-app purchase to remove advertisements	10
Social integration (users can share entries, locations, photos via social media)	15
Instabug integration (allows users to easily report bugs/provide feedback)	5
Total	250

Grading Scale

Grade	A	B	C	D	F
Points	225-250	200-224	175-199	150-174	0-149