VEHICLE SERVICE TRACKER - SWIFT PROGRAMMING

AUTHOR

Alan Crisologo - Senior Computer Science Major at Samford University

CONTRIBUTOR

Dr. Brian Toone - Assistant Professor of Computer Science at Samford University

AFFILIATIONS

Department of Mathematics and Computer Science

Samford University
Howard College of Arts and Sciences

I am a second semester senior college student majoring in Computer Science. I am enrolled in a senior seminar/project class to demonstrate a deliverable to culminate my experience at Samford University.

INTRODUCTION

One of the principal challenges with vehicle maintenance is keeping track of everything that needs to be serviced for each vehicle a user owns. In addition, vehicle owners do not always know the exact specifications for their vehicle(s). Throughout a vehicle's lifespan, automobile accidents, service visits, parts orders, and transfers of vehicle ownership can occur.

OBJECTIVE

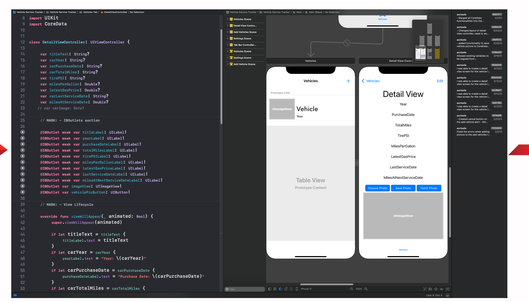
My overall goal is to build an iOS application that tracks the necessary information regarding one's own personal vehicle(s), such as mileage, upcoming maintenance, and service. The application will enable users to store important information about their vehicles on their device and not have to keep up with a "paper trail" of physical documents.

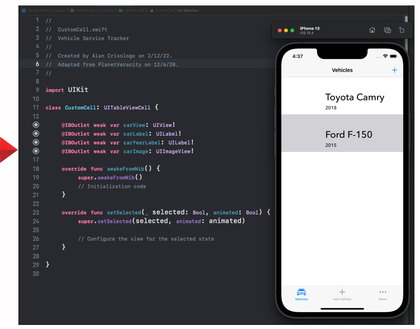
REFERENCES

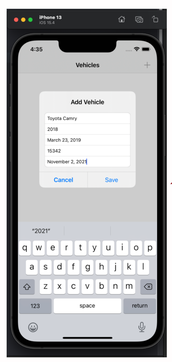
- Angela Yu. iOS & Swift – The Complete iOS App Development Bootcamp. Retrieved February 26, 2022 from https://www.udemy.com/course/ios-13-app-development-bootcamp/.
- PlanetVeracity. Swift UITableView with Custom Cells | Tutorial - YouTube. Retrieved February 21, 2022 from https://www.youtube.com/watch?v=ON3Z0PXSoVk.
- What is Agile? | Atlassian. Retrieved April 2, 2022 from https://www.atlassian.com/agile.

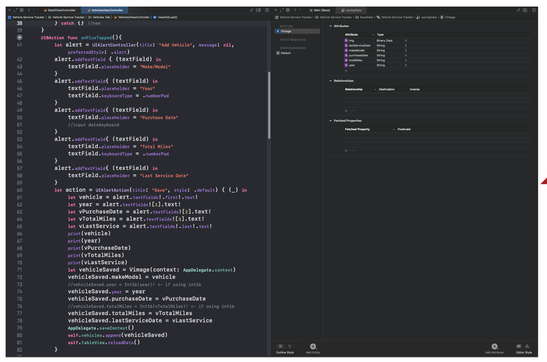
DEVELOPMENT PROCESS

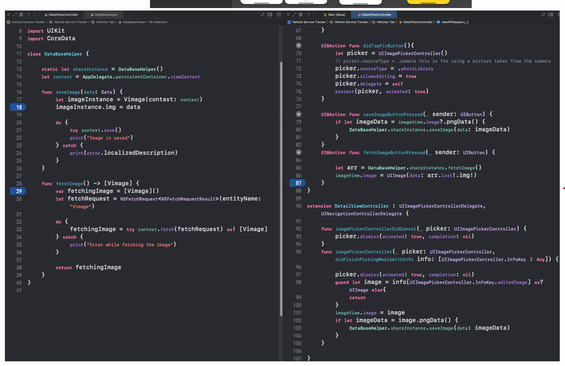
Here are examples of the methodology that I used throughout my development of the Vehicle Service Tracker application.

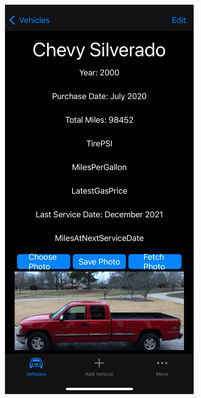


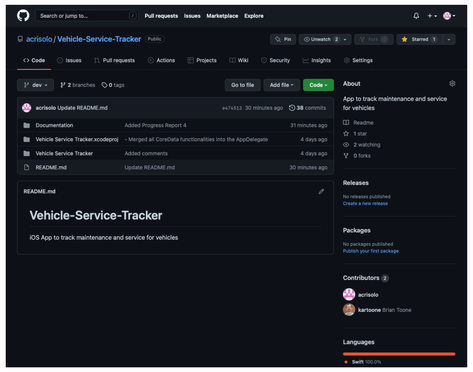












RESULTS/FINDINGS

The app is mostly finished. I have an app that will allow users to input the specifications of their vehicle and see a list of their vehicles within a view controller. In addition, a detail view of each vehicle exists to show particulars regarding that vehicle.

METHODOLOGY

Watching Tutorials
Development Tools
Application Design Choices
Incremental Application Development
Choosing a Storage Option
Testing App on Simulators and iOS Devices
Source Control

CONCLUSION

The Vehicle Service Tracker app will fill a void in the iOS App Store as an essential tool for motorists to use as they maintain their automobiles. This application will help end users keep track of all relevant statistics and maintenance logs for their vehicles. This tool can help users eliminate the need to maintain physical copies of all vehicle service information.