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VEHICLE SERVICE TRACKER - SWIFT PROGRAMMING

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.

AFFILIATIONS

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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

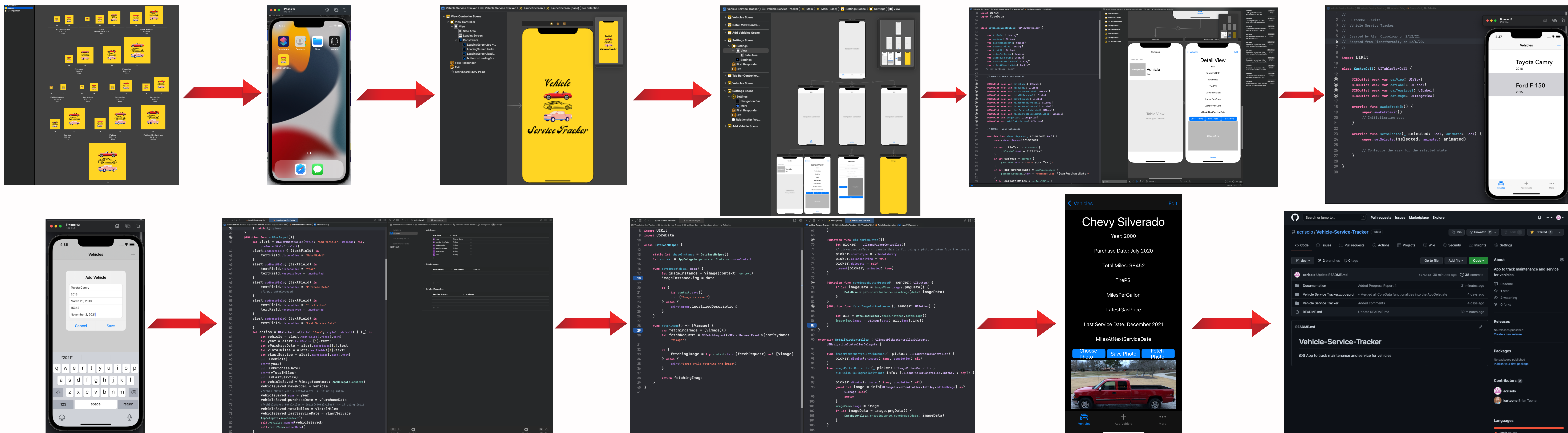
My overall goal is to learn about Swift programming by building an iOS application that tracks the necessary information regarding one's vehicle(s), such as mileage, upcoming maintenance, and service. The application will enable users to store important information about their vehicle(s) on their devices 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 shorturl.at/bfpG9.
- 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

I learned, in great detail, about the Swift programming language, iOS application development, and the Agile method. I learned how to implement Apple's Core Data functionality which stores user data within the app. In addition, I understand how to pass data from one view screen to another. In this case, I use the information inputted within the vehicle list view and segue the data to the detail view for each specific 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 relevant statistics and logs for their vehicles. This tool can help users eliminate the need to maintain physical copies of all vehicle service information.