



Race of Doom

Team 8

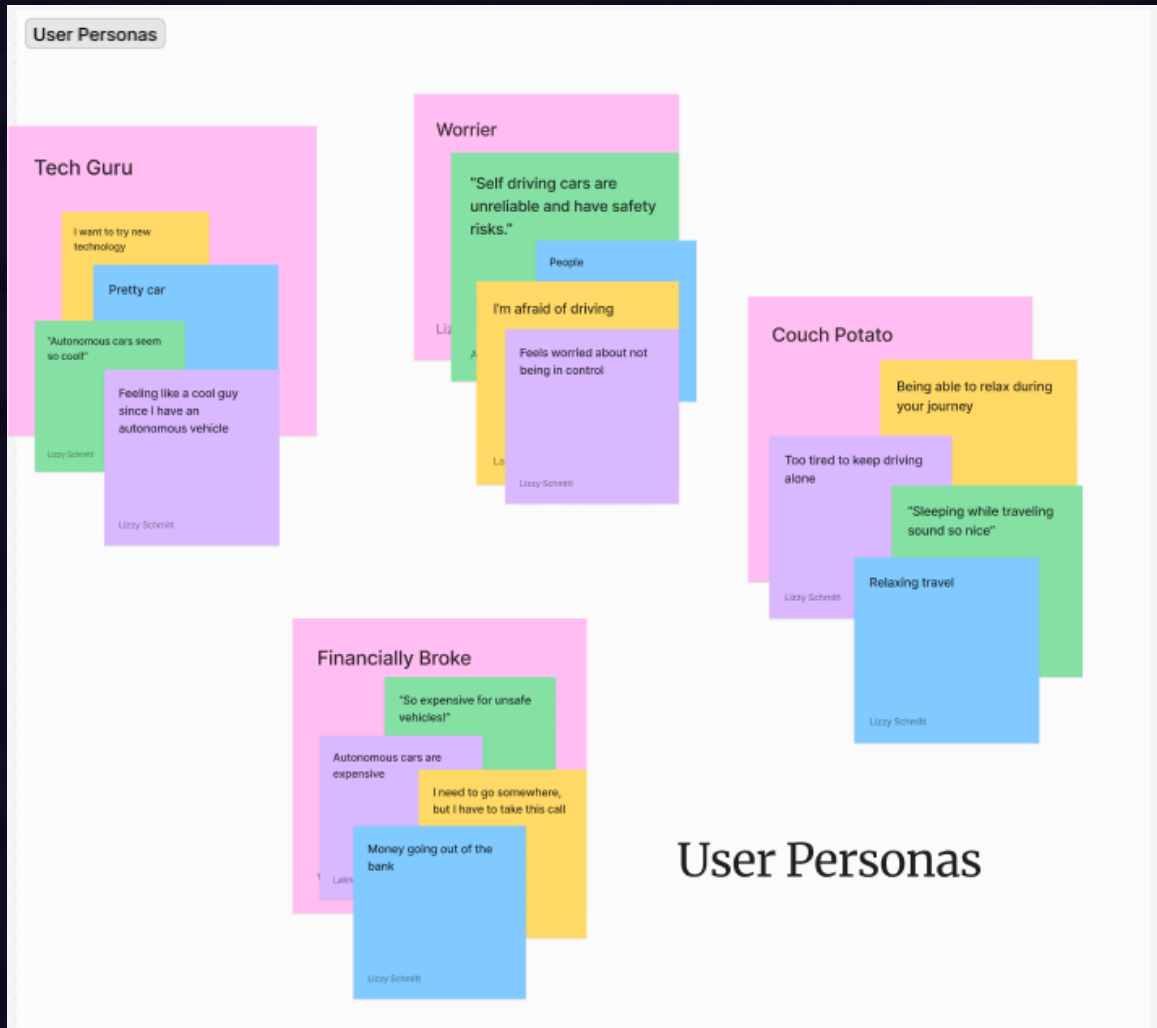
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Project Overview

- *Creating an autonomous vehicle that can receive data from each group to allow for a "race"*
- *Get through different, real-world obstacles successfully*
- Obstacles include
 - People crossing the street
 - Stop signs
 - Bad guys popping up that need to be shot
 - Construction
 - Walls

Artifact 1: Pros/Cons List



- *Key highlights include:*
 - *User Safety Concerns*
 - *Cost/Pricing*
 - *Embracing Laziness*

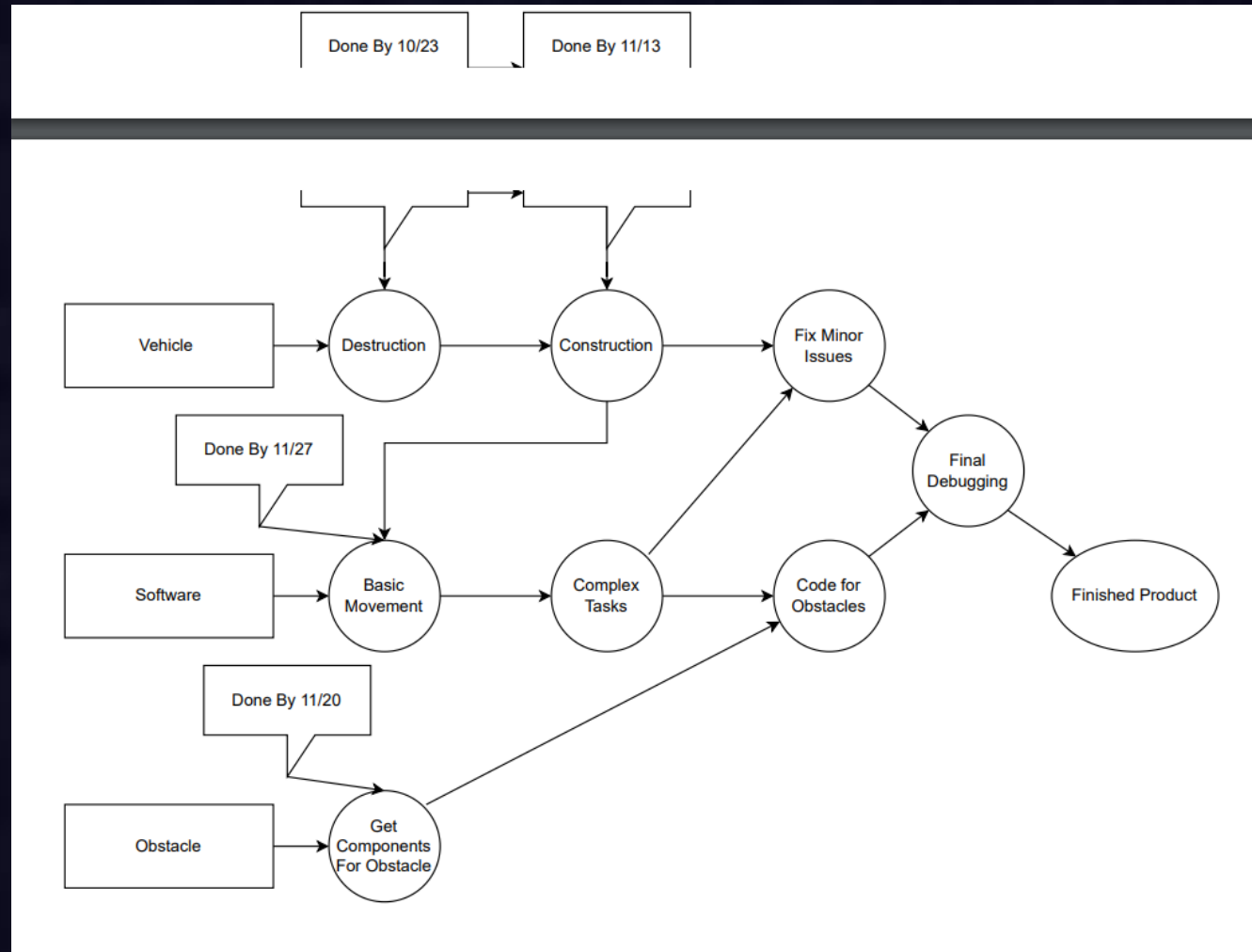
Human/User Needs

- *Although our model is a small scale version of an autonomous vehicle we aim to improve the following:*
 - *Smooth navigation through obstacles allowing for user comfort*
 - *Developing a vehicle that can reduce safety risks and provide security to the passengers.*

Room for Improvement:

- *Through assembly and testing we can fine-tune the vehicle to adapt to these needs more efficiently*

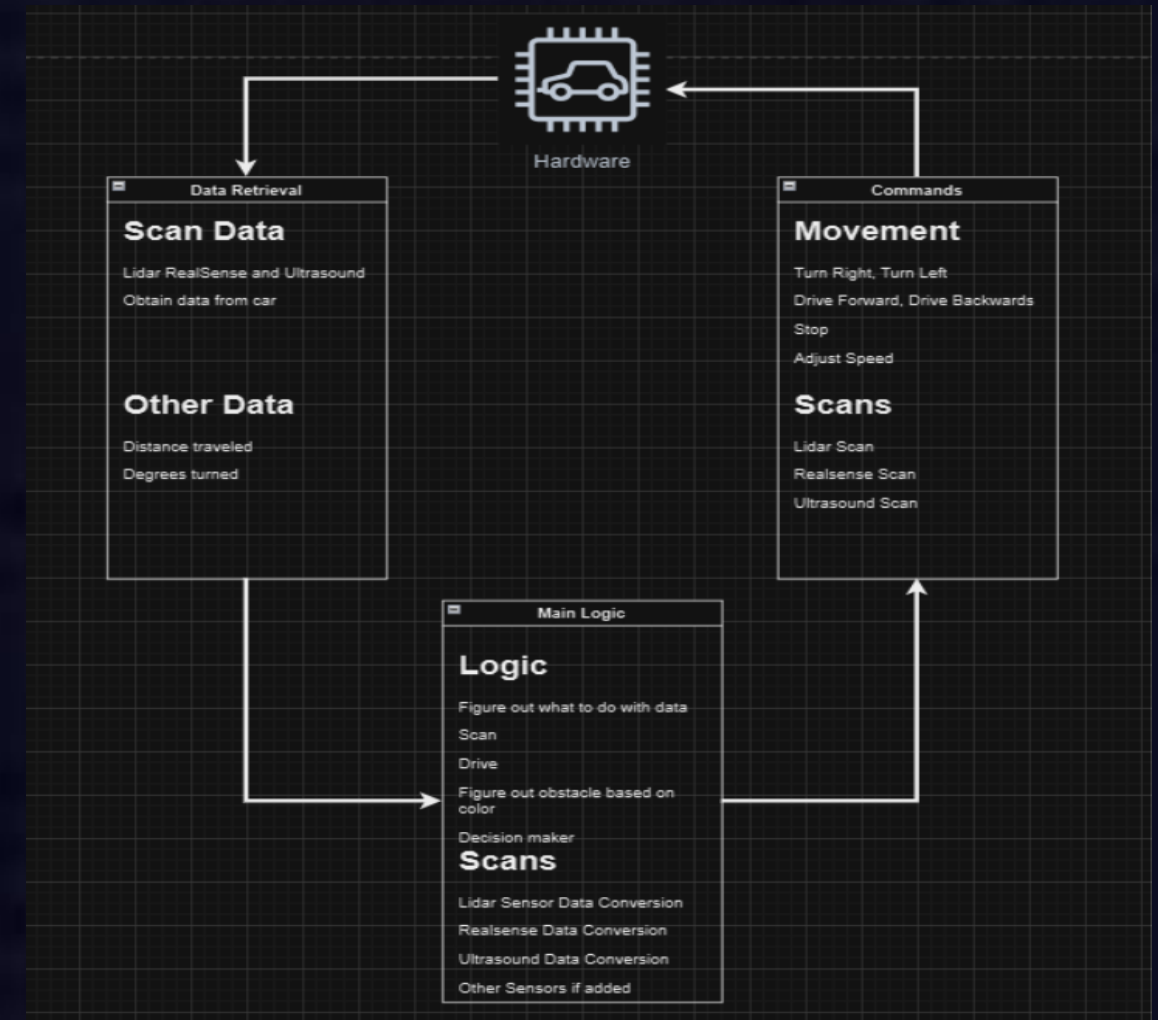
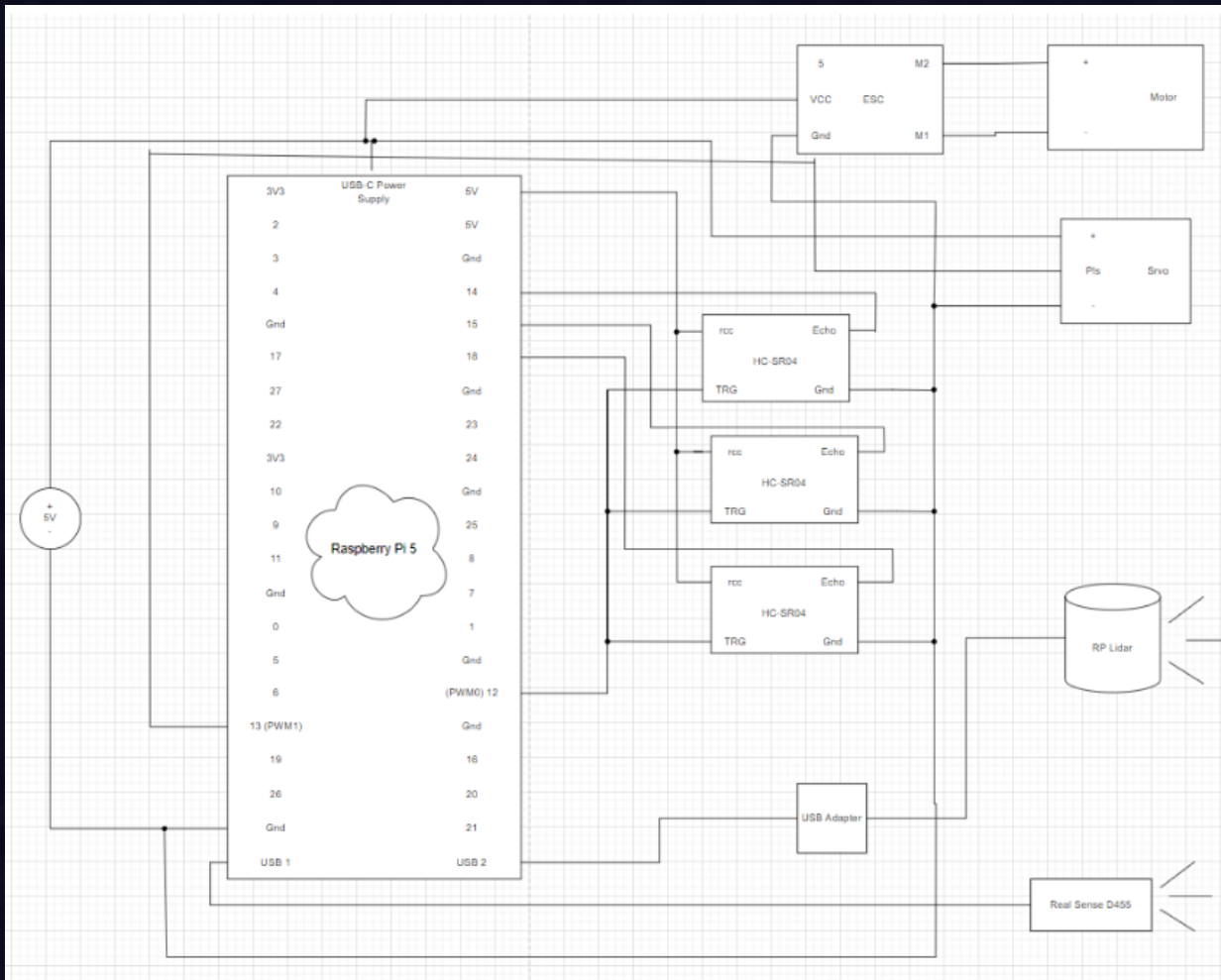
Artifact 2: Journey Map



Economic Improvements

- *Many clients often feel that autonomous cars are too expensive when looking for a more attractive or efficient model*
- *For our development, we have used relatively inexpensive components to allow for small-scale tests without sacrificing expenses*
- *Implementing these components into a large scale can allow for a potentially cheaper solution to the common issues clients have with expenses*

Artifact 3: Technical Complexity Analysis



Technical Analysis

- *The previous slide shows our layout for both the hardware and software components*
- *While our software is to be developed later in the course, the broad scale of connectivity has been detailed in the document*
- *Our expertise has been shown through the connectivity of the hardware we plan to implement through the use of the Raspberry pi microcontroller*

Thank You!