Pudding Screen Plan

# Team Pudding:

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Introduction

Team member Jordan Sanders is our client. He searched for an innovative idea for you group to work on and present. This goal is create a fun project that he cares about, not some boring idea just to finish

The idea is to create an interactive mirror that will have an interface and applications with apps

Our groups thoughts on this projects was that it would be an engaging project with an impressive demo that we can present on design day.

We have devised this projects workload among the three members of our team. Alan will be our chief coder. He will write the majority of the code for our project and administer lesser coding task as he needs help or sees fit. Jordan shall provide the hardware, as our client. He will also create the physical displays and set up the hardware for this project. Hunter shall be the scribe of the project keeping up with the reports and paper work. He like Jordan will work on the code as Alan sees fit.

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Drivers

# Purpose of Project

The project is a required part of our grade to complete this course and hopefully graduate. This group wanted to do something interesting and not boring. We did not like any of the ideas presented in class so teammate Jordan came up with the mirror idea.

Our goal is to get our mirror to actually work and function. To use this in the future as a reference would be amazing, but the main goal is just to pass for the credit.

# Stakeholders

Our client is Jordan Sanders. He is putting for the capital to buy the parts for this project in hope that the finished product will work to his wishes.

The customers for this will most likely be companies like Apple or Microsoft. They are in the interactive surfaces market. They might buy the technology or model from us to produce so they can market and resell to their customers

The users or the customers of our customers will be everyone with a mirror hopefully. This can change workplace environments and meeting. Every home could want to have it, and use it.

Our target personas are married homeowners. This will allow a long-term instillation and investment into their home. In addition, hotels or resort owners trying to upgrade their products will the latest technology and customer service.

Users will not need a technological background to use. The system will be new user friendly so even children that can read will be able to use and set customer settings.

Any new idea will need to be defended on multiple fronts. We will need sponsors to take off, lawyers for leagal advise, employees for production and sales.

We will have a maintenance team, to call in and be able to send a repair or pickup team for issues in the system’ hard or software.

Constraints

# Constraints

To achieve the wanted solution our client wants several specific hardware and software to be used for the project. The wants the bass program to be run in python with the display to use a standard, html, css, and JavaScript code. He wants a raspberry pi computer to be what the 2-way mirror hooks in to. He also wants an Adafruit PIR motion sensor as it is cheap and replaceable

For the physical mirror, he only wants it to be a photo resistor.

An environmental constraint is that the mirror must have a wall to mount on to. The Wall must also have access to a power source, outlet, and it must be within a Wi-Fi signal.

Those are also the collaborative applications. The product will need power and internet.

Outside products we are incorporating are a linex base system to do the coding on. We also need a phone device with Air Mouse to link a device with the system.

The product must be completed before April 25, 2016. That is the date the project is due and needs to be operational.

Out client has told us we have a $100 limit on how much he is willing to spend. We need cheap replaceable products to keep under the limit. This also plays into the hardware constrains to keep us in our price range.

# Naming Convections

* Acronyms and term definitions within requirement specification

# Facts and Assumptions

As we are still university students, we have other work that might take priority above this project from time to time. We have other classes and jobs that also require attention along with family emergencies.

We also have a limit on the cash and resources we have to use for a class project.

We are assuming that our project will stay in working condition, that at no point will it be dropped or broken or a gremlin will break it. It will stay in a safe place until needing to be presented.

We are assuming the presentation environment will be in a well lite environment with internet and have available power. We are also assuming that a user will have access to an iPhone or Android device to connect with our system using Air Mouse.

Functional Requirements

# Scope of the work

* where we currently are, and how this product can change it
* Work Context Diagram???(section 4 naming conventions)
* Work Partioning, Business Use Case Table

# Business Data Model

* what data do I need
* Data Model-classes model of the product
* Specify the class types, attributes, relationship, input and outputs, elements in in/output

# Scope of the Product

* Automated or Done by the User, Weather service

# Functional Requirements

* “The product shall…”

Non-functional Requirements

Open Issues, Waiting Room, & Ideas for Solutions

Project Issues