



COMP 491/L: Senior Design Project
Spring 2023

EarWorm

490/L - 491/L Project Presentation

Supervisor:
Professor Ed Dantes

Team Members:
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Repository:
<https://github.com/matfitchell/Earworm>

PROJECT OVERVIEW



- Match People together
- Like Tinder
- Not Necessarily romantic
- Achieved (eventually) by matching people together using Machine Learning

PROBLEM DEFINITION

- Needed to make a website
- Needed to track individual users
- Needed to Determine Music Taste
- Finally Match them based on that assigned music taste as well as data points like age, sex, location and etc.

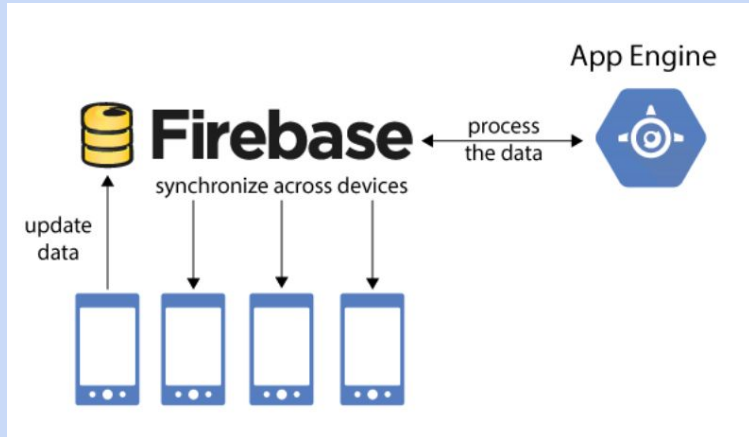
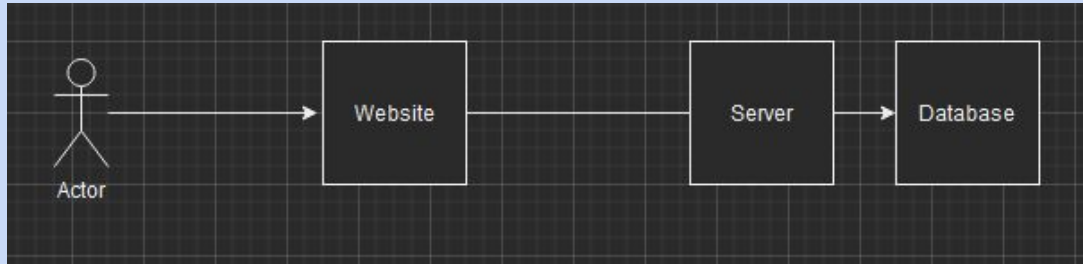


Problem Definition

- This senior capstone seeks to connect individuals and artists with like minded individuals based on criteria such as music taste, sex, age, and location.
- EarWorm's intended audience is any individual/adult seeking to match with others given the aforementioned criteria.



SOFTWARE OVERVIEW DIAGRAM AND EXPLANATION



A user login and sign-up form. It contains two input fields: **Email:** and **Password:**. Below the password field are two buttons: **Log In** and **Sign Up**.

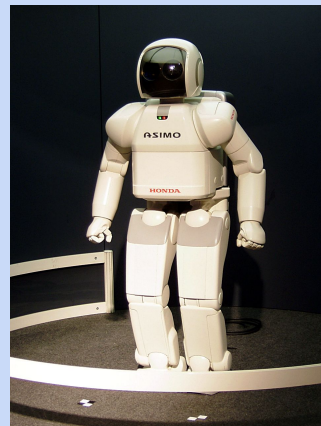
SOFTWARE REQUIREMENTS

Our Application needed to:

- Filter users displayed by user preference
- Have a database to keep track of unique users
- Be easy of use
- Assign users a music taste



Likes and Dislikes



SOFTWARE TESTING METHODOLOGY

Important Tests were:

- Are users unique?
- Are matched users meeting expected criteria?
- Are we accurately assessing the users music taste?

Moreover, are these results consistent with Human expectation?

Were we catching as many edge cases as possible?



APPLICATION DEMO

LESSONS LEARNED

- **REACT.JS! MACHINE LEARNING! WEB DEV!**
- The reality of creating softwares for clients. (It's not just coding, it's toooons of paperwork).
- The importance of **COMMUNICATION & TEAMWORK.**

ANY QUESTION?



JK JK

PLEASE NO

QUESTIONS?