

CSC 433 - Software Engineering
Team Possible
Project Name: "Pass-it"
Requirements Document 1
Version 1.1

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Background:

Before getting started with all of the technological details of how this product is going to work or how a robot is going to tell you what song you want to hear next. . . How about a backstory? . . . Perhaps one we can all relate to?

A backstory worthwhile:

2016: It's a hot summer day. . . The Great New York State Fair is back in town! Also, did someone say it's the weekend? You betcha! All your friends are back in town and arrangements must be made. You're quick to send out the group text to three of your best buddies, implying that you'll be picking them up around noon. With just moments to spare you head to your car. "Open the door!, Key's in the ignition!, AUX cord in! It's go time!" Cruising with your windows down and Taylor Swift blasting, picking up your buddies one by one and you're on your way. Your third friend gets in the car and says "Taylor Swift? Not again!?", "Can someone PASS THE AUX already!?". Promptly the AUX is surrendered by the passenger and Justin Beiber comes onto the air. . . Friend two says calmly implies, "Pass me the AUX next". . .

2019: It's a cold winter evening. . . CUSE is about to beat DUKE. . . Possibly! Also, did someone say it's Saturday? You betcha! All your friends are CUSE fans and arrangements must be made. You're quick to send out the group text to three of your best buddies, implying that you'll be picking them up around four. With just moments to spare you head to your car. "Open the door!, Key's in the ignition!, BLUETOOTH connected!, It's go time!" Cruising with your windows up and Old Town Road blasting, picking up your buddies one by one and you're on your way. Your third friend gets in the car and says "Old Town Road? Not again!?", "Can someone DISCONNECT THEIR BLUETOOTH already!?", "THEIR IS A SILENCE" as the passenger asks the driver for their password to the drivers phone and then asks the driver to pull over as you cannot connect while driving" "THE SILENCE CONTINUES" After 5 minutes has passed and Justin Beiber comes onto the air. . .

2020: A friend insists their buddies to play tracks freely, just simply "**Pass-it**" on air.

Introduction: About the project

"Pass-it" - A Social Media Based Music Sharing Application

Why is the system being developed?

"Pass-it" is being developed to allow users to share music seamlessly in a virtual environment and connect with each other anywhere.

As the aux cord is now a thing of the past and users are forced to use bluetooth and web based technology. In order to allow multiple users to connect and play music together Team Possible is working to create a social media based music sharing web based application. When friends are together playing music it's difficult to play tracks. At times one friend has to play all the music and not everyone in the friend group likes it.

Target Markets: Social Gatherings, Universities, Sporting Events, Music Events, Nightlife, Cafes, Nightlife

Project Goals - Implementation

What will be done?

Our goal is to create a web based application that allows users to Login, Host, Recommend and Comment on music data in a virtual environment.

Functionality Overview:

- 1- "Pass-it" allows users to create host an environment that encourages friends to play music freely, one track after another with no disturbances of disconnecting.
- 2-"Pass-it" allows users to Like and Dislike music data as it's being played if they don't like it. Likes and Dislikes will "Pass" music up and down a live music data cue.
- 3- "Pass-it" allows users to get recommendations on music they might like based upon their Likes and Dislikes.
- 4- "Pass-it" allows users to comment on music data as it's getting played to engage and connect with others.

Major Features & Functions:

Feature 1: (F1) Host

The second feature will include a function to allow the user (**host**) to create a room to **host** that will allow users to add music data to a dynamic playlist.

Feature 2: (F2) Likes & Dislikes

The second feature will include a function to allow the user to **like & dislike** music data in the playlist from other users in the room. The music data with the most likes will reach the top of the list and start.

Feature 3: (F3) Recommendations

The third feature will include a function to allow the user to receive **recommendations** based upon data that has been collected from the database. Likes & dislikes will help generate recommendations.

Further details on technical information can be found on the Case Tools & Environment page.

Operations:

Project Leader: Todd Hrim

Responsibilities:

Main founder's objective is to produce a high quality job. Works with all team members to ensure all resources and time are getting allocated correctly to do so. Assigns tasks to team members and makes sure things get done. Solves major problems as they occur. Presented original idea.

Project Manager: Alberto Garcia

Responsibilities:**Communication and planning Phase:**

Maintains professional relationships with clients and vendors on projects. Establishes the rules surrounding all work and project guidelines. Plans and calls project kick-off meetings. Makes go/no go decisions on project decisions. Plans and executes the high levels of the work based strategies. Works towards long term and short term success hence negotiates proposals. Obtains client sign offs accordingly.

Modeling Phase:

Works to ensure that specifications get done in accordance with the timeline of events and to do lists. Creates regular meeting times and ensures all members of the team are notified.

Construction Phase:

Aware of team mates performance to ensure project is moving along. Handles problems efficiently and immediately as they emerge.

Deployment Phase:

Works with the team to arrange and schedule time, resources and faculty. Make sure that the client and user are satisfied with work. Once satisfaction with the product is achieved, receives client sign-off signatures. At the end of the project works to make sure to complete an evaluation. Creates a post project report once the project is finished.

Lowest Level Programmer: Franklin Nuth

Responsibilities:

Main objective is to produce high quality technical results. Works with the team to ensure the product is meeting up to its expectations. Solves any technical major related problems when they occur. Makes suggestions on what the product is missing and reports back to all team members to move product forward.

Environment & Case Tools:**Case Tool 1: Google Drive**

Google Drive is a cloud based storage server. This tool will allow the team to store all documents in one place. All members can easily add and access business documents or data at any time. Google Drive also has a free set of word processing tools the user can simply access at any time.

Case Tool 2: Trello

Trello is an environment that allows users to access a collaborative board that enables them to make checklists, alerts and more. This tool allows users to stay organized, efficient and on schedule.

Case Tool 3: Facebook Messenger

Facebook Messenger is a group messaging application. This tool allows users to stay connected and chat with other group members. All group members can message each other from their phone or any desktop computer.

Case Tool 4: Adobe Creative Cloud

Adobe Creative Cloud is a cloud based set of applications that range from graphic design to motion picture. These tools will allow the user to make vector graphics, edit any graphic and make video if needed. This tool will be useful for creating any UI/UX design, mockup, sketch and more.

Case Tool 5: Firebase

Firebase is an open source web and app development tool that features a realtime database, hosting, authentication, messaging and more. Programmers will have access to a variety of tools to implement functionality into the application features. Firebase is the primary tool for backend work.

Case Tool 6: Node.js

Node.js is a Javascript framework that allows users to develop and test their application. It is open source and supports server side development platforms. It is event driven, real-time, accepts I/O, and non blocking.

Case Tool 7: Angular.js

Angular is a Javascript framework that allows users to develop and test their application. Angular is open source and supports server side development. The variety of tools and libraries available for use.

Scalability:

In the future this app may be integrated with more advanced features. These features will enhance the users capabilities and experience. Integrations such as Third Party APIs such as music databases is tentative. Integrations such as other social media platforms to connect users together is tentative. Further technology to be implemented is advanced storage techniques and hosting.

Time Constraints & Process Model:

There will be approx. 12 weeks to complete the overall project. The process model that will be implemented is the "Waterfall Model".