

ECS 193AB Winter/Spring2017

MusicalMementoMaker (iOS)

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Background:

Many people have memories that are triggered by music they hear. In order to study the neural basis of music-evoked remembering, it is helpful to know the memories that individuals associate with many different pieces of music. Although people like to share their music-associated memories, getting them to record those memories can be a challenge.

Description:

The MusicalMementoMaker is an app that plays a piece of music at randomly selected times within windows of availability that the user has designated as being open to having "music memory moments." The music is chosen from a library of memory-evoking music that the person has compiled. The web or mobile device app should query the user whether s/he wishes to have a music memory moment, and if s/he indicates yes, the piece of music plays and an input interface (typing or audio recording) is made available to record the memory. The recorded memory is then uploaded to a server that manages the collection of music and associated memories.

This version of the project builds on a 2016 ECS Design Challenge in which an app with the functionality described above was created using Angular.js which runs on iOS or Android. Specifically, the goal is to rewrite this app as a native iOS app in order to be able to access native iOS interface elements and functions such as accessing music from a user's sources, e.g. local music library.

Deliverables:

- 1) iOS app for mediating the music memory moment. This means the app should allow the user to designate windows of availability, send push notifications at appropriate times, select and play music, and save memory information to a web-server.
- 2) Clearly and thoroughly documented source code

Contact: 2-4 hours of meeting with the researcher per month

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