

Gaddum Mood Music

Help us share.

Challenge Rating: 4/5

[Gaddum](#) is an organisation focused on the people of Greater Manchester. It provides services for mental health and well-being, advocacy and support for carers. The Gaddum Mood Music Project was begun in 2018 with the aim of bringing together young carers to explore ways of using music to both lift mood and share friendship and support.

Over several weeks in the spring of 2019 we got together with many of Gaddum's young carers in a co-design exercise to figure out what we could do.

We ended up with the idea of an app which would find out your mood, and give you songs which you might like to listen to.

We wanted to tie some AI around it, so your mood is found by doing some facial expression recognition.

The app would enable you to connect with your friends, to share tracks.

The best thing is that when shared, tracks carry all the information which makes the track special to the person who shared it.

It's a bit like a [mix-tape, from the Eighties](#), with all the best bits of tech we can fit around it.

We spent the summer of 2019 constructing the player around Spotify, and of course, the mood recognition - around a vision engine called [Jeeliz](#). Here's a [demo](#).

Now we have a basic app, which we're testing.

Your bit

So, we got the mood recognition, the player, and playlists sorted out, now we need to share them.

We're going to do it by a combination of push notifications and web-storage. And we need your help to implement our protocol.

Over the course of the project, you will learn how to create cross-platform mobile applications, using Javascript and AngularJs.

You will learn how a push notification service is put together.

You'll construct a RESTful web service, with a Postgres back end to hold the track definitions and metadata which is shared.

You'll implement the handshaking protocol so that the sender and receiver exchange public keys to keep the whole thing safely encrypted.

You'll implement the UI which allows people to connect to one another, send and receive tracks as gifts and play them.

Finally, you'll be attributed on the app, which will be going out on Google Play and Apple's App Store.

Experience Areas

This project will allow teams to gain and exercise knowledge and experience in the following areas:

- Project design and construction
- IonicV1/Cordova cross-platform mobile applications
- RESTFul web services
- Postgres SQL databases
- Public key encryption

Want More Information?

See our [feature pages](#) and [demos](#)