

Web App & REST API

- React.js / Redux
- Node.js / Express
 - MongoDB / Mongoose

Main features

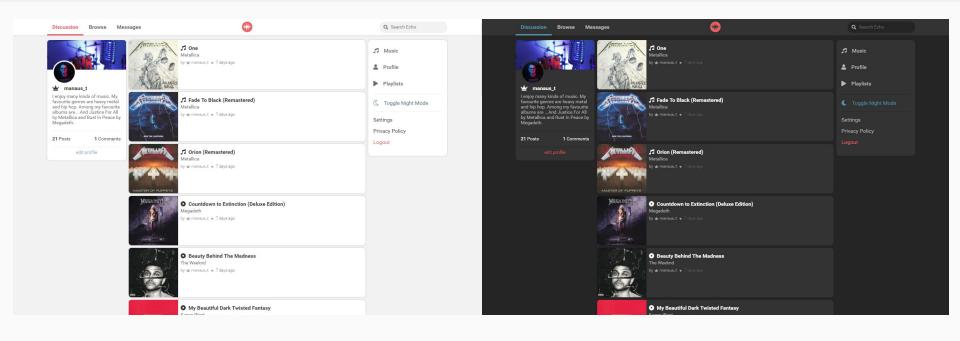
Find and discuss music

Direct messaging

Create playlists

But more importantly...

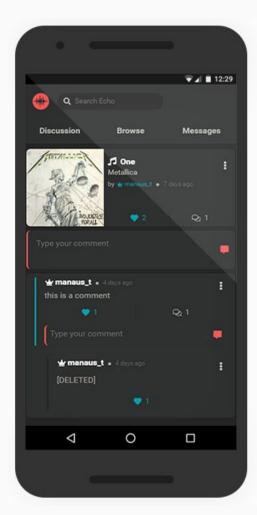
Night Mode!

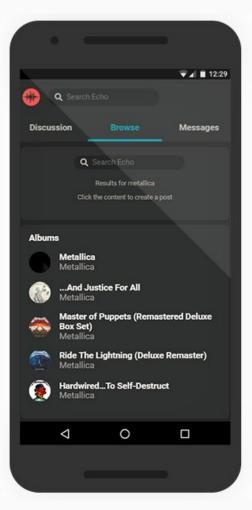


Screenshots

Post Detail

Browse Page

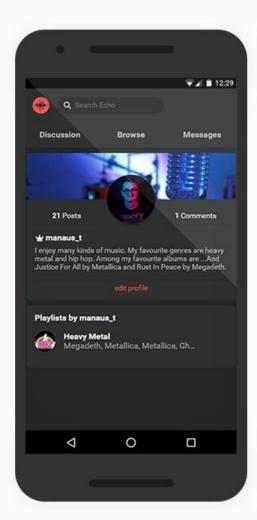


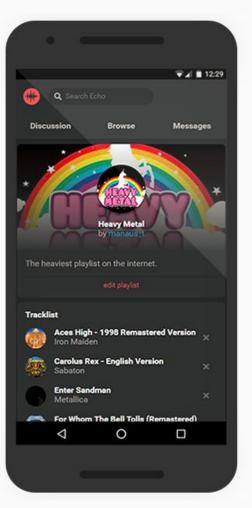


Screenshots

Profile Detail

Playlist Detail

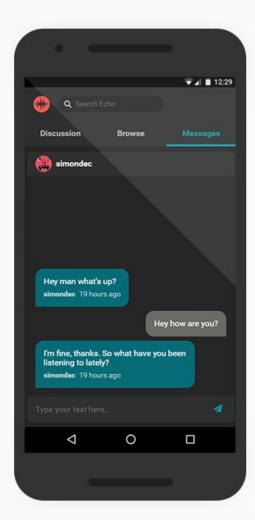


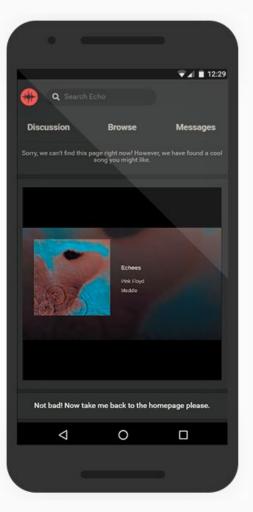


Screenshots

Message Detail

404 Error Page





Deliverables

Datamodel

1 - 1 relation

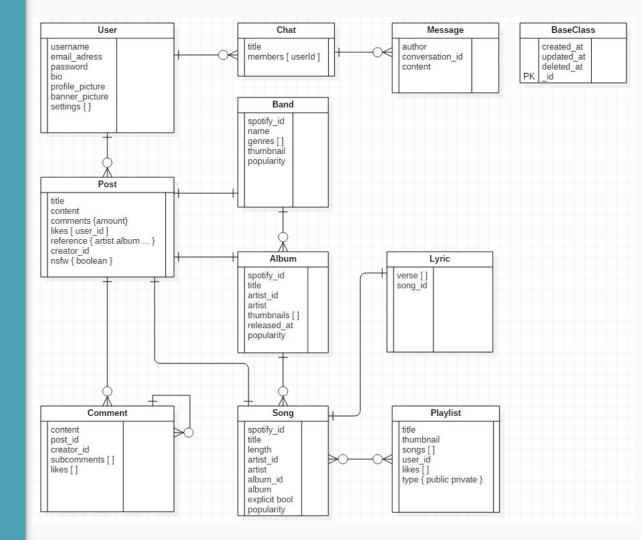
Post refers to one album, album can only have one post

1 - X relation

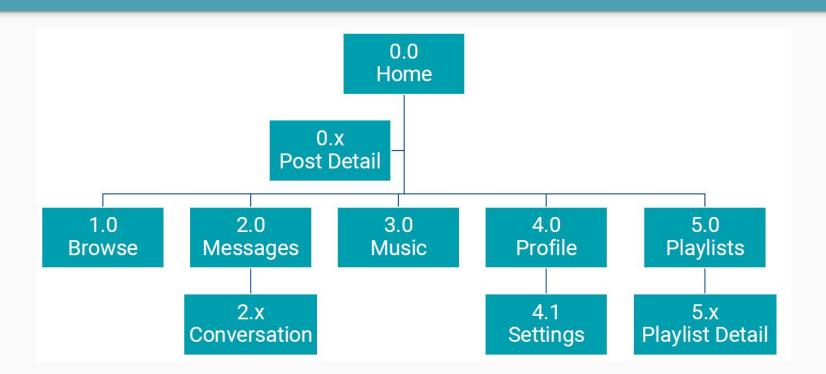
Album has many songs, song can belong to only one album

X - X relation

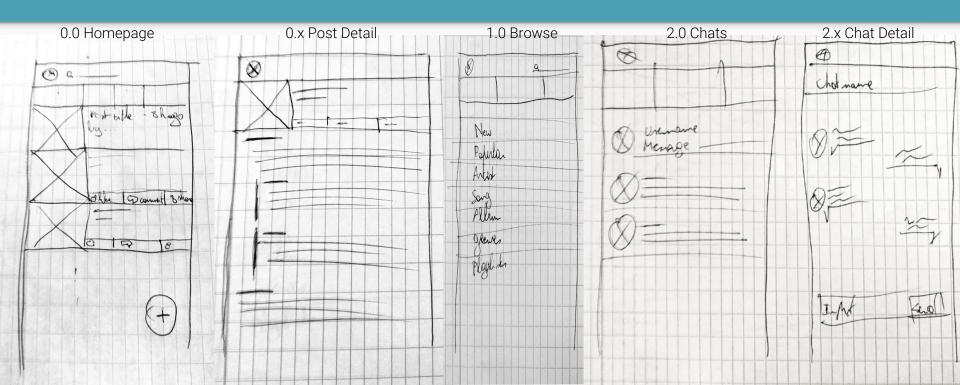
Playlist has many songs, song can belong to many playlists



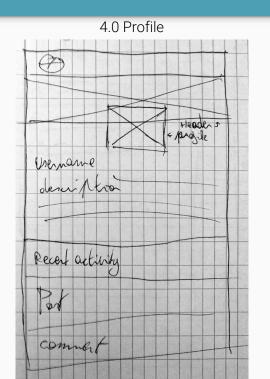
Sitemap

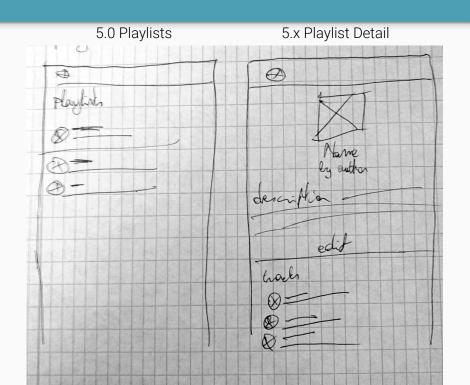


Wireframes

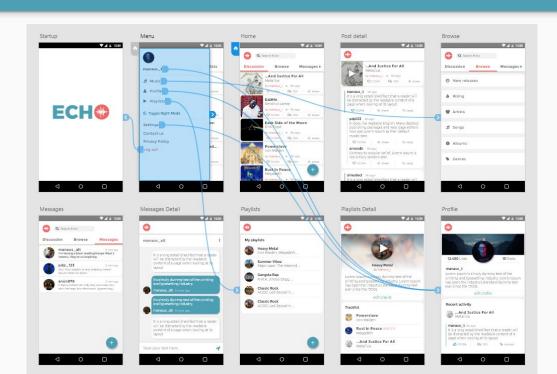


Wireframes





Wireflow



Academic Poster



UI Style Guide



Logo





Components





light post

dark post

Icons

fontawesome



Code Snippets - Models

```
const mongoose = require('mongoose');
const mongoose = require('mongoose');
                                                                                        const Schema = mongoose.Schema;
const Schema = mongoose.Schema;
                                                                                        const CommentSchema = new Schema(
const AlbumSchema = new Schema(
                                                                                            post_id: { type: mongoose.Schema.Types.ObjectId, ref: 'Post', required: true },
   spotify_id: { type: String, required: true, max: 128, unique: true },
                                                                                            author: { type: mongoose.Schema.Types.ObjectId, ref: 'User', required: true },
   title: { type: String, required: true, max: 128 },
                                                                                            content: {type: String, max: 512, required: true},
   artist: { type: String, required: true, max: 128 },
                                                                                            likes: [{ type: mongoose.Schema.Types.ObjectId, ref: 'User' }],
   artist_name: { type: String, required: true, max: 128 },
                                                                                            created_at: { type: Date, default: Date.now },
    images: [{
                                                                                            updated_at: { type: Date, default: Date.now },
     height: { type: Number },
                                                                                            deleted_at: { type: Date, required: false },
     width: { type: Number },
                                                                                            published_at: { type: Date, required: false }
     url: { type: String, max: 128 }
   release_date: { type: String },
                                                                                            toJSON: { virtuals: true },
   created_at: { type: Date, default: Date.now },
                                                                                            toObject: { virtuals: true }
   updated_at: { type: Date, default: Date.now },
   deleted_at: { type: Date, required: false }
                                                                                        CommentSchema.virtual('id').get(() => this._id);
   toJSON: { virtuals: true },
                                                                                        CommentSchema.virtual('subcomments', {
   toObject: { virtuals: true }
                                                                                          ref: 'Subcomment',
                                                                                         localField: '_id',
                                                                                         foreignField: 'parent_id'
                                                                                        })
AlbumSchema.virtual('id').get(() => this._id);
                                                                                        module.exports = mongoose.model('Comment', CommentSchema);
module.exports = mongoose.model('Album', AlbumSchema);
```

Code Snippets - Controllers

```
exports.get_song = function (req, res, next) {
                                                                                                                              const id = req.params.songId;
                                                                                                                              const query = Song.aggregate([
                                                                                                                               { $match: { 'spotify_id': id } },
exports.post_like_post = function (req, res, next) {
  User.findById(req.user.id).then(profile => {
                                                                                                                                 $project: {
                                                                                                                                   "spotify_id": "$spotify_id",
    console.log(req.params.postId)
                                                                                                                                   "title": "$title".
    Post.findOne({_id: req.params.postId})
                                                                                                                                   "album": "$album".
                                                                                                                                   "artist": "$artist",
       .then(post => {
                                                                                                                                   "artist_name": "$artist_name",
                                                                                                                                   "explicit": "$explicit",
         if (post.likes.filter(like => like.toString() === req.user.id).length > 0) {
                                                                                                                                   "duration": "$duration".
                                                                                                                                   "popularity": "$popularity",
                                                                                                                                   "created_at": "$created_at",
            const removeIndex = post.likes
                                                                                                                                   "updated_at": "$updated_at",
               .map(item => item.toString())
                                                                                                                                   "deleted_at": "$deleted_at"
               .indexOf(req.user.id);
                                                                                                                               { $lookup: { from: 'albums', localField: 'album', foreignField: 'spotify_id', as: 'album' } },
                                                                                                                                   "spotify_id": 1,
            post.likes.splice(removeIndex, 1);
                                                                                                                                   "artist_name" ...
            post.save().then(post => res.json(post));
                                                                                                                                   "explicit": 1,
         } else {
                                                                                                                                   "duration": 1,
                                                                                                                                   "popularity": 1.
                                                                                                                                  album: { "$arrayElemAt": ['$album', 0] },
            post.likes.unshift(req.user.id);
                                                                                                                                   "created_at": 1,
                                                                                                                                   "updated_at": 1,
            post.save().then(post => res.json(post));
                                                                                                                                   "deleted_at": 1
        3)
                                                                                                                              query.exec((err, song) => {
        .catch(err => res.status(404).json({ postnotfound: 'No post found' }));
                                                                                                                               if (err) return errorHandler.handleAPIError(500, 'Could not get the song with id: ${id}', next);
                                                                                                                                 return errorHandler.handleAPIError(404, 'Song not found with id: ${id}', next);
   .catch(err => res.status(404).json({ usernotfound: 'No user found' }));
                                                                                                                               return res.json(song[0]);
```

Code Snippets - Redux

```
import { TOGGLE_NIGHTMODE, ADD_NIGHTMODE, REMOVE_NIGHTMODE } from '../constants';
const body = document.guerySelector('html');
export const toggleNightmode = () => dispatch => {
 body.classList.toggle('dark')
 let nightmode = JSON.parse(localStorage.getItem('nightmode'))
 localStorage.setItem('nightmode', JSON.stringify(!nightmode))
 return { type: TOGGLE_NIGHTMODE }
export const addNightmode = () => dispatch => {
 body.classList.add('dark')
 localStorage.setItem('nightmode', 'true')
 return { type: ADD_NIGHTMODE }
export const removeNightmode = () => dispatch => {
 body.classList.remove('dark')
 localStorage.setItem('nightmode', 'false')
 return { type: REMOVE_NIGHTMODE }
```

```
const initialState = {
  nightmode: false
function nightmodeReducer(state = initialState, action) {
  switch (action type) {
   case TOGGLE_NIGHTMODE:
     return {
        ...state,
       nightmode: !state.nightmode
   case ADD NIGHTMODE:
     return {
       ...state,
       nightmode: true
   case REMOVE_NIGHTMODE:
     return {
       ...state,
       nightmode: false
   default:
     return state;
export default nightmodeReducer;
```

Code Snippets - Components

```
⊟ class PostsList extends Component {
   constructor(props) {
      super(props);
      this.state = {
        comments: []
    componentWillMount() {
      this.props.fetchPosts();
   componentDidMount() {
      let scrollTop = document.getElementById('scroll-top')
      if (scrollTop) {
       scrollTop.addEventListener('click', (e) => {
          e.preventDefault();
          window.scroll({ top: 0, left: 0, behavior: 'smooth' })
       })
```

```
<section className="card playlists">
  <h2>Playlists by {this.state.profile.username}</h2>
  {(this.state.playlists.length > 0)
    ? this.state.playlists.map((playlist, i) => (
      <a href={'/playlist/${playlist._id}'} key={playlist._id}>
        <div className="playlist-item" >
          <img src={playlist.image} alt="Thumbnail" />
         <div>
            <h3>{playlist.title}</h3>
            >
              {playlist.songs.map((song, i) => <React.Fragment key={i}>
                {!!i && ", "}
                {song.artist_name}
             </React.Fragment>)}
            </div>
        </div>
      </a>
    : No playlists yet!
</section>
```

Live preview

https://echo-mobdev.herokuapp.com/

Screencast

https://vimeo.com/272941834

Thanks!

A presentation by:

Manaus Transez

Feel free to ask questions.

