# SXSW Music Hackathon 2016 Project Presentation

Joanne Bruno and Jeremy Cantu's Hack: "Etude"

#### Motivations

- For musicians of all walks, collaboration is full of complications when factoring in distance
- Although the Internet has made it easier to transfer both ideas and information, very little has been addressed in terms of organization for music
- A remedy for this situation would involve ease-of-use in regards to creating, sharing, and tracking an idea's evolution over time

## Etude W

- Solution: a web-application that takes the ideals of software version control (GitHub, Team Foundation Server), and applies them to the music creation process
- Leverages a straightforward user-interface, alongside an intuitive visualization of a collaborated-upon project

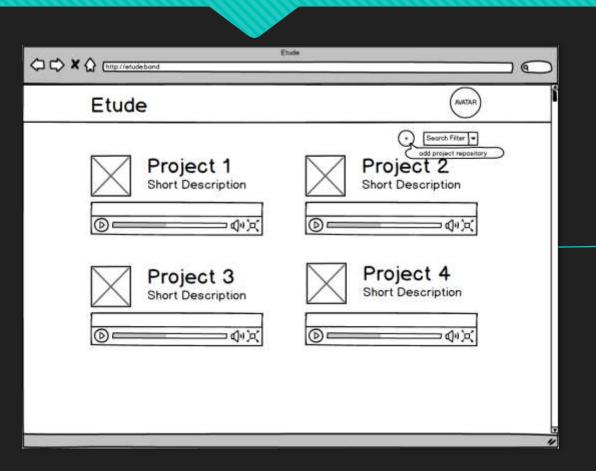
#### Technologies Utilized

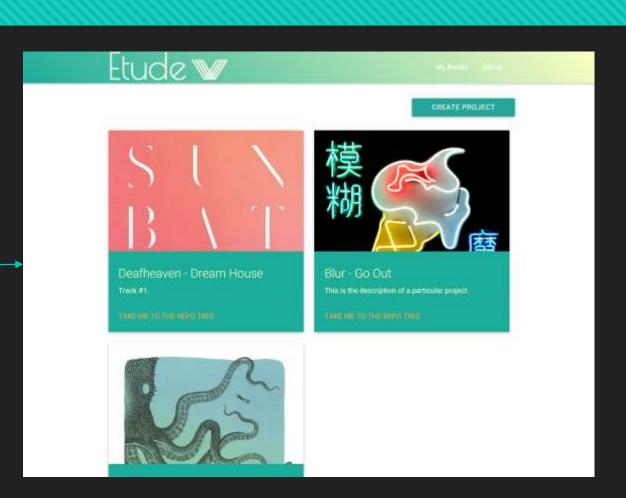
- Node.js as foundation to the Express Framework for a server backend
- O HTML5 and CSS for the UI/UX
- JavaScript and jQuery for the web-application frontend
- O D3.js for the project visualization aspect of the hack
- O Balsamiq and Adobe Illustrator for wireframes and logo



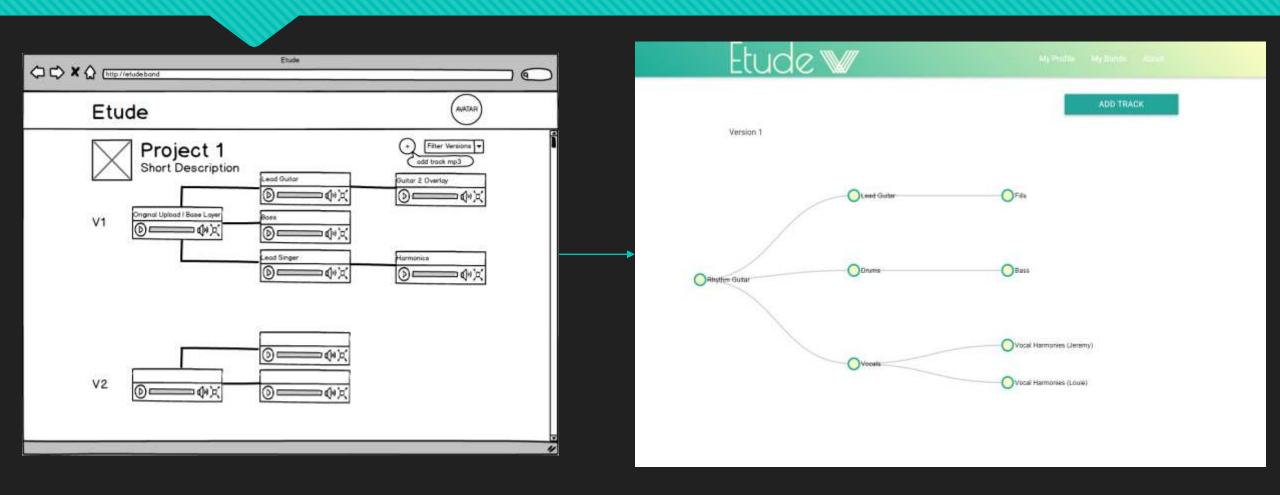


### User Interface Composition (Profile Page)

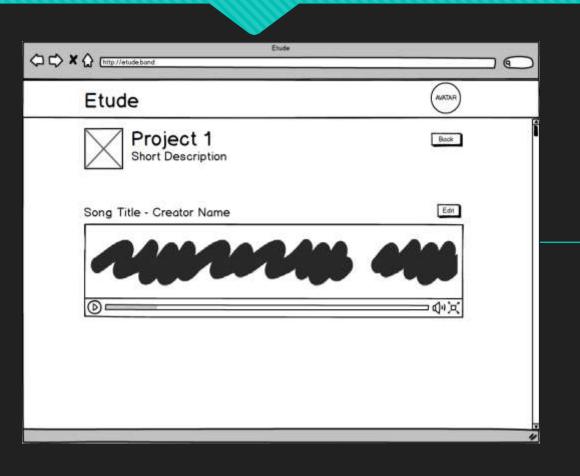


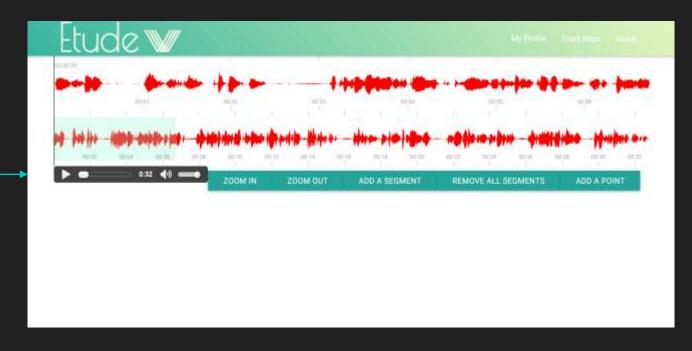


### User Interface Composition (Project Page)



### User Interface Composition (Track Page)





#### Functional Prototype Demonstration

https://www.youtube.com/watch?v=6G-ksRaR1p0

#### **Future Work**

- Implement backend database for account and project persistence
- Flesh out song visualization
  - adding versioning system between changes
- Add track-by-track editing features for on-the-fly changes to the song overall

#### References

- O D3.js homepage <a href="https://d3js.org/">https://d3js.org/</a>
- O D3 Tree Layout <a href="http://bl.ocks.org/d3noob/8375092">http://bl.ocks.org/d3noob/8375092</a>
- D3 Tree Layout with flat data approach <a href="http://bl.ocks.org/d3noob/8329404">http://bl.ocks.org/d3noob/8329404</a>
- BBC R&D Peaks.js (open-source waveform library) http://waveform.prototyping.bbc.co.uk/
- O BBC R&D Waveform Data GitHub Repo <a href="https://github.com/bbcrd/waveform-data.js">https://github.com/bbcrd/waveform-data.js</a>



## Thank you for your time

For more about this event: <a href="http://www.sxsw.com/music/conference/hackathon">http://www.sxsw.com/music/conference/hackathon</a>

## Questions?