Deliverable 2

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Task Breakdown

<u>Arya</u>

- File loader GUI
- FFT/Visualizer/Analyzer gui + code
- Distortion/Bitcrush code
- Threadpool/Jobs coding

<u>Alex</u>

- Equalizer code
- Notes GUI + code
- Audio recording code
- File saving/exporting code

<u>Theo</u>

- Reverb plugin GUI + code
- Timeline pos/BPM GUI + code
- Phaser GUI + code
- Clips GUI + code

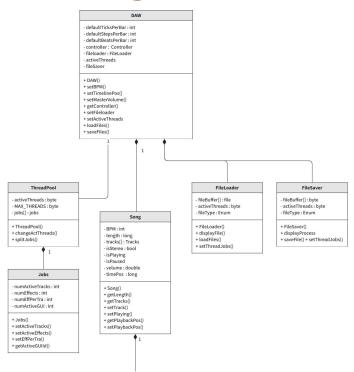
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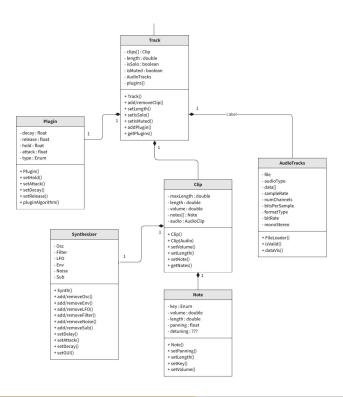
- File loader code
- Synth GUI + code
- Stereo/multi-fx/chorus code
- Drag and Drop code

Input and Output Data Grid

Input	Output
Audio file name	Audio File appears on track
Synthesizer parameters	Audio function with data points
Reverb parameters (knobs/sliders)	Audio with reverb effect
Instrument selection (buttons)	Ability to play notes of an instrument
Selected settings	Modified pitch
Play selected audio file	Visualized audio

Class Diagram





Wireframe



Jira Board

		N	FEB	MAR	APR	MAY	JU
Sprints			Deliverable 3 -	Deliverable 3 - Part 2	Deliverable 3 - Part 3		
5CRUM-1 Need to finalize our ideas for the	DONE						
SCRUM-3 Deliverable 3 - Part 1							
SCRUM-12 Main Window UI	TO DO						
■ SCRUM-8 Synthesizer UI &	TO DO						
■ SCRUM-5 Equalizer UI Å	TO DO						
■ SCRUM-31 Reverb UI Å	TO DO						
■ SCRUM-4 Settings UI &	TO DO						
■ SCRUM-9 Audio File Import UI	TO DO						
SCRUM-99 Audio Pipeline	TO DO						
■ SCRUM-11 2D/3D Visualizer UI	TO DO						
SCRUM-6 Deliverable 3 - Part 2							
■ SCRUM-35 Note Placement ♣	TODO						
■ SCRUM-36 Multiple Track Manageme	TO DO						
■ SCRUM-37 Audio Channel Managem	TO DO						
SCRUM-38 Audio Synthesizer Algorit &	TO DO						
■ SCRUM-39 BPM Management ♣	TO DO						
SCRUM-40 Multiple Instrumen &	TO DO						
■ SCRUM-43 Pitch Modification	TO DO						
SCRUM-44 Audio Equalizer Algorith &	TO DO						
SCRUM-69 Audio Reverb Algorith	TO DO						
SCRUM-46 Playback Control	TO DO						
■ SCRUM-90 Stereo Algorithm	TO DO						
SCRUM-7 Deliverable 3 - Part 3							
SCRUM-41 Custom Audio Fil	TO DO						
SCRUM-42 Audio Recording ♣	TO DO						
SCRUM-96 Bit Crush Algorith	TO DO						
SCRUM-95 Phaser Algorithm	TO DO						
SCRUM-94 Flanger Algorith	TO DO						
SCRUM-91 Muffling/Compressor Algorit	TO DO						
SCRUM-93 Distortion Algorith	TO DO						
SCRUM-97 Multi-Effect Algorith	то ро						
SCRUM-100 Multithreading	TO DO						
SCRUM-45 2D/3D Visualizer ♣	TODO						