#### Create Website

User story	Importance
As a visitor I go to the website to access the	
synth.	
(simple HTML page, HTTP server)	
How to test	Estimate
The visitor can access the synth website	

# Play keys

User story	Importance
As a visitor I push keys to play notes. (JS binding	
sound function to keypress and mouse click, or	
use the keyboard)	
How to test	Estimate
The visitor will hear a sound when a key on the	
PC keyboard is pressed/ a key on the GUI is	
clicked.	

# Polyphony

User story	Importance
As a visitor I want to be able to play multiple	
notes simultaneously, aka polyphony.	
How to test	Estimate
Pressing two or more keys should make a sound	
of the superposition of the two notes	

#### Create waveform

User story	Importance
As a visitor I type a mathematical function to create a periodic waveform. (String parsing, Probably JS)	
How to test  entering a valid mathematical function into the field will result in the function being successfully parsed.	Estimate

# Display waveform

User story	Importance
As a visitor i want to be able to view the graph of the wave. (Graphical representation)	
How to test	Estimate
The above entered function should be plotted in a visually appealing way.	

#### Create envelope

User story	Importance
As a visitor I type a mathematical function to	
create an envelope. (Graphical representation)	
How to tost	Estimata
How to test	Estimate
Entering a valid mathematical function will give	
an envelope that can be used for various parts	
of the sound generation. There will be	
, ,	
limitations put in place.	

# Display envelope

User story	Importance
As a visitor i want to be able to view the graph of the envelope. (Graphical representation)	
How to test	Estimate
The envelope is plotted in a visually appealing way.	

## Change amplitude

User story	Importance
As a visitor I create an envelope to change the amplitude. (Sound editing)	
How to test  After entering a valid envelope, the amplitude of the sound will be changed accordingly	Estimate

## Change pitch

User story	Importance
As a visitor I create an envelope to change the	
pitch. (Sound editing)	
How to test	Estimate
After entering a valid envelope, the pitch of the	
sound will be changed accordingly	
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# Change timbre

User story	Importance
As a visitor I create an envelope to change the	
timbre. (Sound editing)	
How to test	Estimate
After entering a valid envelope, the timbre of	
the sound will be changed accordingly	

## Save synth settings

User story	Importance
As a visitor I save the settings of the synth to	
use it later. (Cookies/long url)	
How to test	Estimate
After closing a session, opening the session	
again should load the settings of the last	
session.	

#### Piano Roll

User story	Importance
As a visitor I want to have a graphically	
interactive piano roll so that i can compose musical scores.	
How to test	Estimate
Visitor can "click out" notes on a piano roll that will play continuously.	

## **Multiple Synths**

User story	Importance
As a visitor I want to add multiple synths that	
can play simultaneously in the piano roll.	
How to test	Estimate
The visitor can "click out" notes from multiple	
different synths that will play.	
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#### **Audio Recording**

User story	Importance
As a visitor I want to be able to record and save	
myself playing on the synth. (MP3 Generations)	
How to test	Estimate
Pressing a "record" button should take in the	
inputs and generate a mp3 file that can be	
listened to.	
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## MIDI Keyboard

User story	Importance
As a visitor I want support for a MIDI keyboard	
that is connected to my computer that has opened the website. (MIDI interface)	
How to test	Estimate
Having a plugged in MIDI keyboard should function and play notes like the regular PC keyboard.	