**Release Plan**

**Heading**:

Product Name: BeatBox

Release Name: BeatBox 1.0

Release Date: July 23rd, 2023

Revision Number: 1

Revision Date: July 2nd, 2023

**High-Level Goals**:

* Give musicians a user-friendly tool to instantly create new drum patterns
* Allow users to import sound files to customize their groove
* Provide a download option so the user can save their creations
* Allow users to log in and save/access their beats

**User Stories Defining the Scope of the Release:**

* **Play Button and Stop Button**: As a musician, I want to make a drum beat using one instrument channel and play it back, so I can make a basic rhythm. (Priority: High) (Story Points: 8)
* **8 Channels**: As a musician, I want to use up to 8 instrument channels so I can make more complex rhythms. (Priority: High) (Story Points: 5)
* **Tempo Button**: As a musician, I want to change the tempo so I can create rhythms at different speeds. (Priority: High) (Story Points: 5)
* **Download Button**: As a musician, I want to download my drum loop so I can use it in a real song. (Priority: High) (Story Points: 8)
* **Upload Button**: As a musician, I want to upload my own sounds so I can use instruments that match my ideas better than the default instruments. (Priority: High) (Story Points: 8)
* **Instrument Channel Play Button**: As a musician, I want to play an instrument channel’s sound so that I can hear the sample being used. (Priority: High) (Story Points: 3)
* **Volume Knob**: As a musician, I want to change the volume of certain sounds so all the different sounds are balanced with each other. (Priority: High) (Story Points: 5)
* **Panning Knob**: As a musician, I want to change the panning of certain sounds so I can use spatial positioning to make the soundstage more immersive. (Priority: Medium) (Story Points: 5)
* **Mute Button**: As a musician, I want to mute sounds so I can focus on certain sections of my drum pattern at a time. (Priority: High) (Story Points: 3)
* **Solo Button**: As a musician, I want to solo certain sounds so that I can see how one specific channel sounds clearly. (Priority: Medium) (Story Points: 5)
* **Snapshot Account**: As a musician, I want to log in and save snapshots of my drum pattern and sounds to my account so I can conveniently look at and edit all my drum patterns. (Priority: High) (Story Points: TBA)
* **Snapshot Download**: As a musician, I want to download a “snapshot” of my drum pattern that I can re-upload and continue editing later so I can make quick and easy changes. (Priority: High) (Story Points: TBA)

**Complete List of User Stories:**

* **Sprint 1** (16 points)
  + **Play Button and Stop Button**: As a musician, I want to make a drum beat using one instrument channel and play it back, so I can make a basic rhythm. (Priority: High) (Story Points: 8)
  + **Instrument Channel Play Button**: As a musician, I want to play an instrument channel’s sound so that I can hear the sample being used. (Priority: High) (Story Points: 3)
  + **Tempo Button**: As a musician, I want to change the tempo so I can create rhythms at different speeds. (Priority: High) (Story Points: 5)
* **Sprint 2** (26 points)
  + **Upload Button**: As a musician, I want to upload my own sounds so I can use instruments that match my ideas better than the default instruments. (Priority: High) (Story Points: 8)
  + **Volume Knob**: As a musician, I want to change the volume of certain sounds so all the different sounds are balanced with each other. (Priority: High) (Story Points: 5)
  + **Download Button**: As a musician, I want to download my drum loop so I can use it in a real song. (Priority: High) (Story Points: 8)
  + **Panning Knob**: As a musician, I want to change the panning of certain sounds so I can use spatial positioning to make the soundstage more immersive. (Priority: High) (Story Points: 5)
* **Sprint 3** (13 points + TBA)
  + **8 Channels**: As a musician, I want to use up to 8 instrument channels so I can make more complex rhythms. (Priority: High) (Story Points: 5)
  + **Mute Button**: As a musician, I want to mute sounds so I can focus on certain sections of my drum pattern at a time. (Priority: High) (Story Points: 3)
  + **Solo Button**: As a musician, I want to solo certain sounds so that I can see how one specific channel sounds clearly. (Priority: Medium) (Story Points: 5)
  + **Snapshot Account**: As a musician, I want to log in and save snapshots of my drum pattern and sounds to my account so I can conveniently look at and edit all my drum patterns. (Priority: High) (Story Points: TBA)
  + **Snapshot Download**: As a musician, I want to download a “snapshot” of my drum pattern that I can re-upload and continue editing later so I can make quick and easy changes. (Priority: High) (Story Points: TBA)

**Sanity Check Discussion:**

Total team story points per sprint: 18.3 points

Total team story points for full development: 55 points

Total story points for user tasks: 55 points

This plan lies within our capacity. Work is distributed reasonably across 3 weeks.

**Product Backlog:**

* Recording sample on website

**Definition of Done**:

* Code checked into repository (Github)
* Static code analysis performed and passed

**Coding Style / Standards**:

* Keep all global variables at the top of the file