The Novel MIDI Controller

Designing & Implementing a User-Centred MIDI Controller

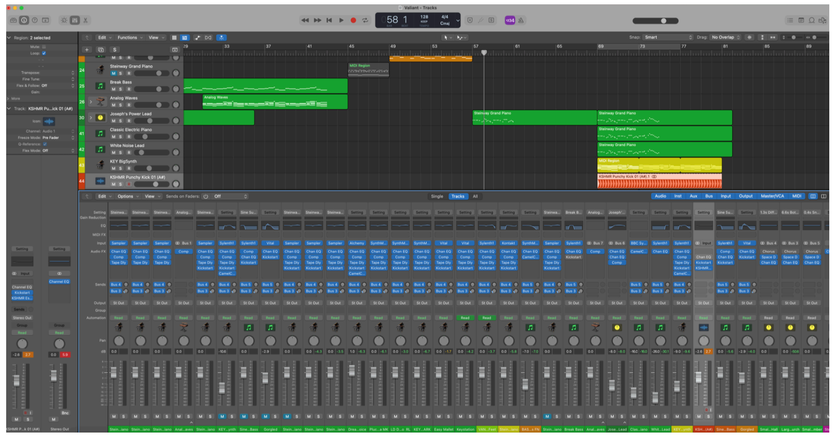
Joseph Cameron - 19/08/2022

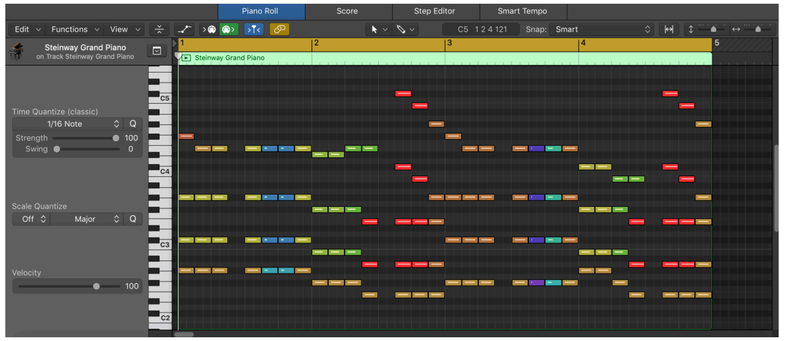
Understanding the Problem Space

Motivation

- Traditional MIDI Controllers are targeted at musicians and music theory experts.

- Music composition & production tools can be intimidating.

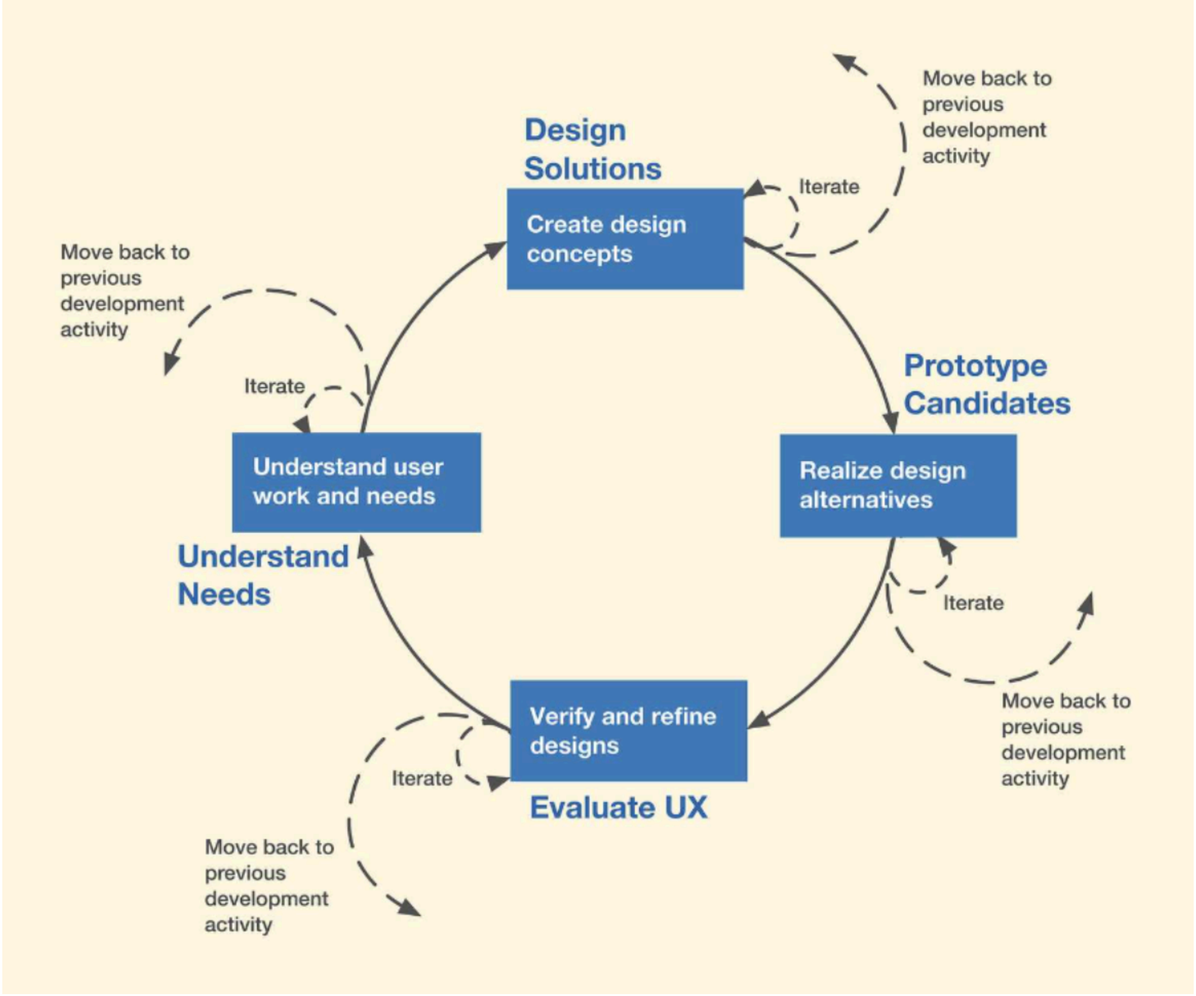




The User-Centred Design Process

The Steps for Building the Novel MIDI Controller

Step 1: Understand User Needs through Semi-Structured Interviews & Observation Studies



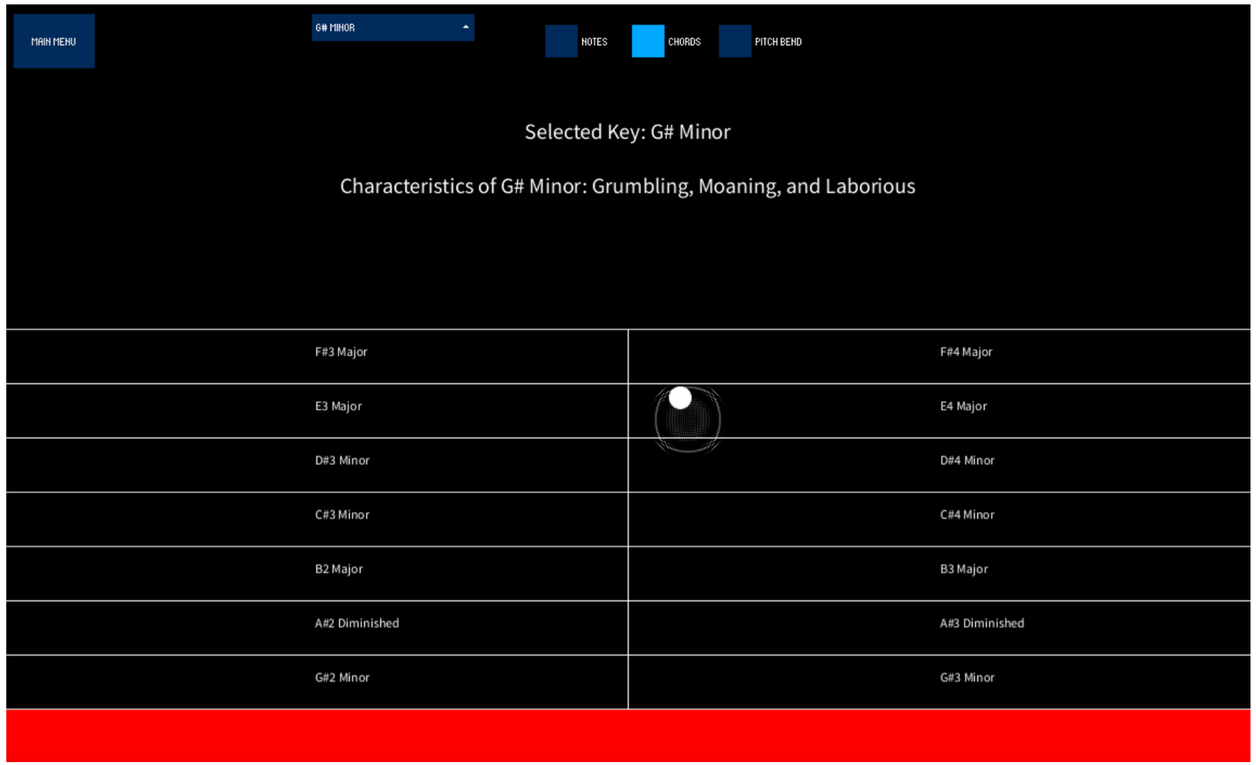
Step 2: Design Solutions through Scenario & Concept Sketching

Step 3: Implement the Novel MIDI Controller Application with Processing and Leap Motion API

Step 4: Evaluated the MIDI Controller through Observation Studies, Semi-Structured Interviews, & Questionnaires

The Novel MIDI Controller Demo

Live Mode



Editor Mode