Team 5 Project Charter

Dynamic Musical Generative Composer

(Impromptune)

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**Problem Statement:**

In the current music creation software landscape there is a lack of software that dynamically generates music based on the user’s input and musical ideas. There is an overabundance of composition software, but lack of user-friendly computer assisted generative tools. This software would be different in the fact that it could take pre-existing motifs and produce entirely unique patterns, ideas, and riffs that compliment the user’s musical input, and allow for manual manipulation of generated output with a graphical user interface.

**Project Objectives:**

* Read input through MIDI or manual interface
* Generate complementary musical phrases
* Optional harmonic parameterizations to guide the suggestion of richer tones
* Give the user common musical suggestions to make the musical piece flow
* Intuitively connecting phrases together in a simple drag/drop interface
* Provide users with a complementary tool for harnessing musical capabilities
* Allow user to combine creation and save composition

**Stakeholders:**

* The developers of the software
* Hobbyist Musicians/Composers

**Project Deliverables:**

* Application backbone for harmonics
* Generative musical patterns
* Changeable parameters to alter musical generation
* Cross-platform Java GUI desktop application for user input