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| **Problem Solving (A3) Report** | **Topic: Chord Medley Generator** | **Date: August 18, 2020** |
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| **1. Identify a Problem** | **PLAN** |  | **4. Propose & Implement Countermeasures** | **PLAN/DO** |
| * Musicians/songwriters struggling with composing a chord progression * Musicians that want to practice reading and playing chords on the fly * Musicians that want to sing a randomly generated medley for fun | |  | * Create a program or site that can randomly generate chord progressions and medleys for musicians to play themselves. The key of the chords or medley could be picked by the user or also randomly selected. * Practicing playing chords on the fly can allow them to play most songs instantly just by reading the song’s chord progression while reading the lyrics. * Allow users to create a database of song segments from which the program can generate a medley from | |
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| **2. Set the Target** | **PLAN** |  | **5. Check/Evaluate** | **CHECK** |
| Help inexperienced musicians practice with their chords and chord progressions.  Give some inspiration to musicians or songwriters struggling to write a chord progression. Create a program or site that helps with this by the end of the 2020-2021 Fall semester. | |  | ***ASK:***   * Did the countermeasures work? * Was the target achieved * Can I verify that the Root Cause was eliminated (can I turn it off & on) * If the Countermeasure was not effective, why didn’t it work   ***SHOW:***  The results; describe the reliability of the new process  ***TOOLS:***  Line graph, pareto | |
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| **3. Analyze the Causes** | **PLAN** |  | **6. Act and/or Standardize** | **ACT** |
| * Inexperienced musicians tend to practice playing songs instead of learning different chords. * Some musicians and songwriters, especially inexperienced ones, struggle with composing their own chord progressions. There may be a lack of creativity or inspiration * Some musicians could practice and have fun playing a randomly generated medley from segments of their favorite songs. | |  | ***ASK:***   * How will we ensure the process continues to work (stays solved)? * What have we learned? * Where else can we apply this learning?   ***SHOW:***  New or changed procedures, plans to apply learning in other areas  ***TOOLS:***  Standard Operating Procedures | |