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| **Use Case UC-1:** | | | **Config** |
| **Related Requirements:** | | | REQ1, REQ2, REQ4 and REQ5 stated in Table Requirements |
| **Initiating Actor:** | | | User |
| **Actor’s Goal:** | | | To config the tonality, style and get the generated melody |
| **Participating Actors:** | | | Trainer |
| **Preconditions:** | | | The software always displays the list of available tonality and style. |
| **Postconditions:** | | | The melody is generated according to the tonality and the style the user chose. |
| **Flow of Events for Main Success Scenario:** | | | |
| → | 1. | **User** selects the items from the tonality and the style lists. | |
| ← | 2. | **System** saves the choices by the **User.** And the backend enables the generator to generate music automatically. The result generated can be exported in MIDI format or to be an audio file. | |

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| **Responsibility Description** |  | **Concept Name** |
| Rs1. Accept choice that the tonality and the style to be. |  | Acceptor |
| Rs2. Record the information of the user’s input. |  | Recorder |
| Rs3. Generate the melody according to the data recorder provides. |  | Generator |
| Rs4. Keep the melody in the MIDI format or as an audio file. |  | Keeper |

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| **Concept pair** | **Association description** | **Association name** |
| Acceptor ↔ Recorder | Acceptor passes the user’s choice to Recorder to store the data. | provides data |
| Recorder ↔ Generator | Recorder passes the data stored to Generator for generating the melody needed. | generates melody |
| Generator ↔ Keeper | Generator passes the generated result to Keeper for saving different formats | saves result |

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| **Concept** | **Attributes** | **Attribute Description** |
| Generator | default information | Data of the tonality and the musical style is defaulted. |
| logical processes | Backend provides logical algorithm to generate the melody aimed at. |
| records list | List provided stores the information needed for further processes. |
| Accepter | records list | List provided stores the information needed for further processes. |
| Recorder | records list | List provided stores the information needed for further processes. |
| Keeper | records list | List provided stores the information needed for further processes. |