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| Use Case #1 | Play Music |
| Goal in Context | To allow the user to play music |
| Scope | The Butterfly system |
| Level | Summary |
| Primary Actor | User |
| Preconditions | Song is highlighted/selected |
| Minimal Guarantee | Nothing happens |
| Success Guarantee | The selected song begins playing |
| Trigger | Play button or double click on the song |
| Description Step |  |
| 1 | The user double clicks the song or clicks the play button |
| 2 | The system finds the song file |
| 3 | The system begins audio output |
| Extension Step |  |
| 2a | The song selected is a YouTube song |
|  | A1: If the user is not logged in, the system will prompt the user to enter their account information |
|  | A2: The system streams the song from the YouTube database |

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| Use Case #2 | Search Music |
| Goal in Context | To allow the user to search for a song |
| Scope | The Butterfly system |
| Level | Summary |
| Primary Actor | User |
| Preconditions | System is open and running |
| Minimal Guarantee | Tells user that song cannot be found |
| Success Guarantee | Songs matching the keywords appear to the user |
| Trigger | Typing in the search box |
| Description Step |  |
| 1 | The user types keywords into the search field |
| 2 | The system searches the keywords in the list of songs |
| 3 | The system filters matching songs and displays them to the user |
| Extension Step |  |
| 2a | YouTube search is enabled |
|  | A1: The system searches for the keywords on YouTube |

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| Use Case #3 | Create Playlist |
| Goal in Context | To allow the user to create custom playlists |
| Scope | The Butterfly system |
| Level | Summary |
| Primary Actor | User |
| Preconditions | The user has at least one song |
| Minimal Guarantee | Nothing happens |
| Success Guarantee | The song is added to the playlist |
| Trigger | Right click, add to playlist |
| Description Step |  |
| 1 | The user right-clicks the song |
| 2 | The user selects “add to playlist” option |
| 3 | The system prompts the user to create playlist or choose playlist |
| 4 | The system adds the song to the playlist |

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| Use Case #4 | Tweet Song |
| Goal in Context | To allow the user to tweet about currently chosen song |
| Scope | The Butterfly system |
| Level | Summary |
| Primary Actor | User |
| Preconditions | Song is playing, user has twitter account |
| Minimal Guarantee | Nothing happens |
| Success Guarantee | The tweet is posted by the user |
| Trigger | User selects to tweet about current song |
| Description Step |  |
| 1 | System displays window that allows user to edit tweet template |
| 2 | The user submits the tweet |
| 3 | The system posts the tweet to the user’s timeline |
| Extension Step |  |
| 1a | The user is not logged into Twitter |
|  | A1: The system prompts the user to enter their account information |
|  | A2: System logs user into Twitter |

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| Use Case #5 | Play YouTube |
| Goal in Context | To allow the user to play audio from YouTube |
| Scope | The Butterfly system |
| Level | Sub-function |
| Primary Actor | User |
| Preconditions | YouTube song is chosen, internet connection available |
| Minimal Guarantee | Nothing happens |
| Success Guarantee | The selected song begins playing |
| Trigger | Play button or double click on the song |
| Description Step |  |
| 1 | The user double clicks the song or clicks the play button |
| 2 | The system finds the song on the YouTube database |
| 3 | The system begins playing the song |

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| Use Case #6 | Search YouTube |
| Goal in Context | To allow the user to search audio from YouTube |
| Scope | The Butterfly system |
| Level | Sub-function |
| Primary Actor | User |
| Preconditions | System is open and running, internet connection available |
| Minimal Guarantee | Nothing happens |
| Success Guarantee | Songs matching the keywords will appear to the user |
| Trigger | Typing in the search box |
| Description Step |  |
| 1 | The user types keywords into the search field |
| 2 | The system searches the YouTube database using the keywords |
| 3 | The system displays the results to the user |

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| Use Case #7 | Login to YouTube |
| Goal in Context | To allow the user to login to YouTube |
| Scope | The Butterfly system |
| Level | Sub-function |
| Primary Actor | User |
| Preconditions | System is open and running, internet connection available |
| Minimal Guarantee | Nothing happens |
| Success Guarantee | User is logged into YouTube |
| Trigger | User attempts to login or access YouTube functionality |
| Description Step |  |
| 1 | The user enters their account username and password |
| 2 | The system logs the user into YouTube |

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| Use Case #8 | Login to Twitter |
| Goal in Context | To allow the user to login to Twitter |
| Scope | The Butterfly system |
| Level | Sub-function |
| Primary Actor | User |
| Preconditions | System is open and running, internet connection available |
| Minimal Guarantee | Nothing happens |
| Success Guarantee | User is logged into Twitter |
| Trigger | User attempts to login or access Twitter functionality |
| Description Step |  |
| 1 | The user enters their account username and password |
| 2 | The system logs the user into Twitter |