
Group02

Beatify
Use-Case Specification: Customize Equalizer

Version 1.0

Beatify	Version: 1.0
Use-Case Specification: Customize Equalizer	Date: 13/11/2024

Revision History

Date	Version	Description	Author
13/11/2024	1.0	Initial version. Created use-case specifications for Customize Equalizer including necessary fields, basic and alternative flows, and specific preconditions and postconditions.	Lê Gia Huy

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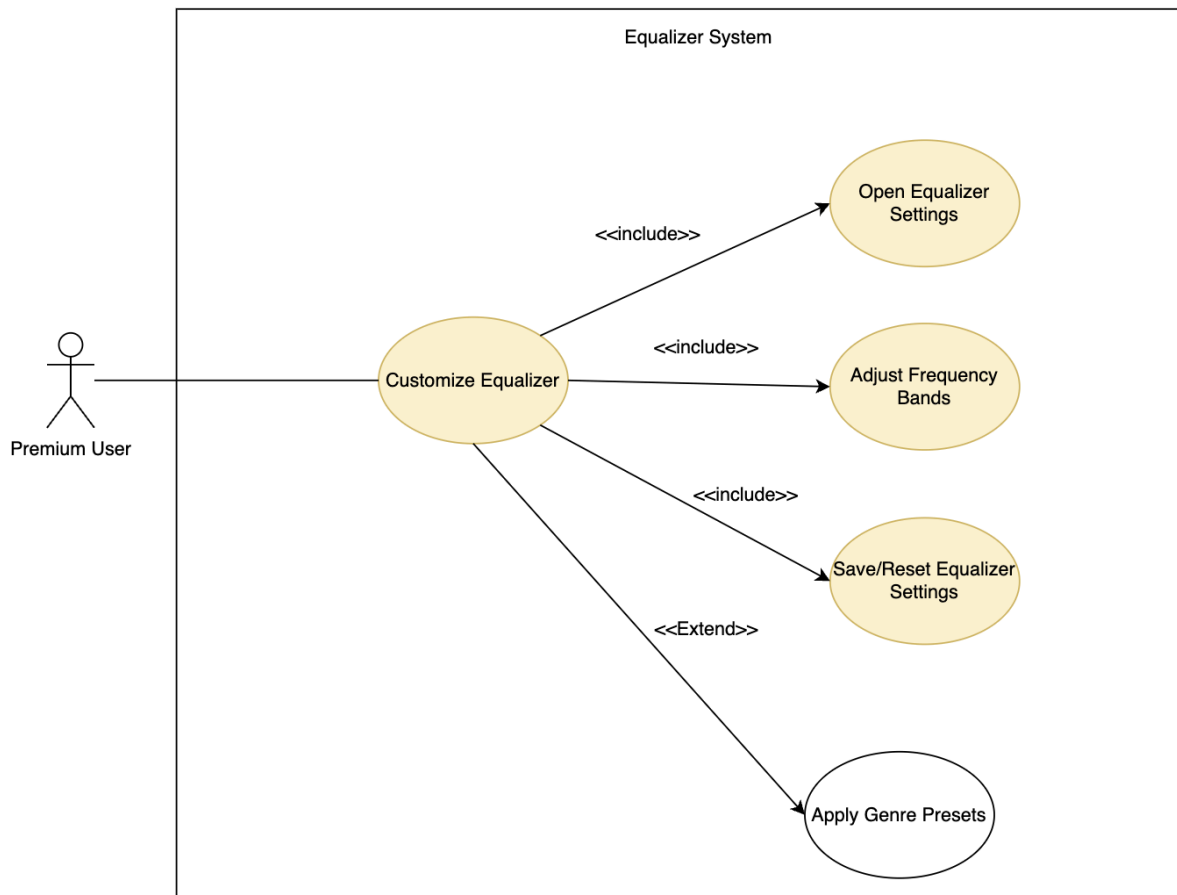
Table of Contents

1. Use-Case Name: Customize Equalizer	4
1.1 Brief Description	4
2. Flow of Events	4
2.1 Basic Flow	4
2.2 Alternative Flows	5
2.2.1 User Cancels Equalizer Adjustments	5
2.2.2 Unsupported Device or Browser	5
3. Special Requirements	5
4. Preconditions	5
5. Postconditions	5
6. Extension Points	5

Beatify	Version: 1.0
Use-Case Specification: Customize Equalizer	Date: 13/11/2024

Use-Case Specification: Customize Equalizer

1. Use-Case Name: Customize Equalizer



1.1 Brief Description

This use case allows premium users of Beatify to customize the sound quality of their music playback experience through an equalizer feature. Users can adjust frequency bands (e.g., bass, midrange, treble) to enhance their listening experience based on personal preferences or to match specific genres.

2. Flow of Events

2.1 Basic Flow

1. User Accesses Equalizer: The user navigates to the Equalizer settings in the playback interface.
2. System Displays Equalizer Options: The system presents the user with multiple frequency band sliders (e.g., bass, midrange, treble) for customization.
3. User Adjusts Frequency Bands:
 - The user interacts with the sliders to modify specific frequency levels.
 - Adjustments include increasing or decreasing bass, midrange, and treble levels according to preference.

Beatify	Version: 1.0
Use-Case Specification: Customize Equalizer	Date: 13/11/2024

4. System Updates Playback Output: As the user adjusts each frequency band, the system immediately applies the changes to the audio output, providing real-time feedback.
5. User Saves or Resets Settings:
 - The user can save the customized equalizer settings, allowing for future sessions to start with the same configuration.
 - Alternatively, the user may reset to default settings if they want to return to the standard audio output.

2.2 Alternative Flows

2.2.1 User Cancels Equalizer Adjustments

- If the user decides not to proceed with the adjustments, they can exit the Equalizer screen without saving. The system will revert any temporary adjustments made during the session.

2.2.2 Unsupported Device or Browser

- If the device or browser does not support real-time audio adjustment, the system displays a notification and disables the equalizer options. The user may still access other playback features.

3. Special Requirements

- The equalizer feature should only be accessible to premium users.
- Real-time audio processing capabilities are required for immediate playback feedback.
- The equalizer interface should be intuitive and responsive, allowing for seamless adjustments.

4. Preconditions

- The user must be logged into their premium Beatify account.
- The user must have an active song playing or queued for playback.
- The user's device/browser should support real-time audio adjustments.

5. Postconditions

- If the user saves the settings, the customized equalizer configuration will be stored for future sessions.
- If the user resets to default, the equalizer settings revert to standard playback, and no custom settings are saved.

6. Extension Points

- Genre-Based Presets: Offer preset equalizer settings optimized for different music genres (e.g., Rock, Jazz, Pop), which users can choose to apply.