SOFTWARE REQUIREMENTS

SPECIFICATION (SRS) REPORT

TITLE: MUSIC PLAYER

WITH VOICE

COMMANDS

Group Members:

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FUNCTIONAL REQUIREMENTS (FR):

1. BASIC OVERVIEW:

What does the product actually do?

The product is an AI-Based Music/Radio Player application that allows the users to Stream live music or radio channels but with the help of an AI bot using integrated voice commands.

2. MAIN FEATURES:

- Conversational AI– Inbuilt dialogues keeping the user entertained.
- AI Search Capability – Allowing the user to search for the desired music track.
- Music Genre Suggestions – Giving the users different songs suggestions.
- AI Commands – Integrated voice commands for playback and pause.
- Ease of use – Clean and simple UI for ease of use.
- Development community – Active development and maintenance team.
- Compatibility – Universally compatible with different operating systems.

3. USER INTERFACE:

1- Music Tracks Cards.

- Allows the user to double tap and play the songs in the selected card.
- Music Track suggestions similar to what user is listening to mostly.
- Radio Channels support and live playback.
- The background of the music track cards will be of the specific genre for the songs included in it.

2- AI-Based Bot Support.

- Activates by tapping on the assistant icon on the bottom right of app.
- Enable the user to search, play, and pause any tracks using integrated voice commands.
- Conversational AI based dialogues for better user experience.

3- Radio Channels Support.

- Present in the top left is a slide bar containing all the live radio channels added by the development team.
- Allows the user to play the desired radio channels from the app directly.

NON-FUNCTIONAL REQUIREMENTS (NFR):

1- Scalability and Design.

- UI design must be easy and compatible

2- Performance Requirement / Speed:

- The AI Assistant should be more responsive and should take less time.
- The system can allow the user to add tracks in his own playlists.
- Music Track playbacks should be in seconds and does not take time.
- Searching for a track should bring in similar suggestions.

3- Maintenance and Reliability Factors.

- By increasing capacity, the developer team will be able to add the support for more radio channels for better user experience.
- Keeping the application under strict maintenance is fundamental especially with the support of live radio.
- Adding new and updated commands for the built-in AI assistant to enhance the user experience and take it to the next level.

4- Security and Privacy Concerns.

- Regular security checks will help in keeping the application bug-free.
- The AI Assistant being super conversational with the user increases the risks of leaking of voice commands so that should be considered as well.

5- Purpose.

- Our music app allows the users to stream live music anywhere anytime.
- The application being "AI-based" let you to search up your desired tracks with the help of integrated voice commands.
- Allows the free streaming of different radio channels.
- Enables the user to create a liked songs playlist for adding up all the music tracks in one playlist ultimately resulting in less browsing.