**A**

**Project Synopsis**

**On**

**SonicFusion**

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**SEM-III**

**For the approval of Project Synopsis**

**SUBMITTED BY**

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**PROJECT INTRODUCTION**

In today's digital music era, having an efficient and well-organized streaming platform is essential for delivering an engaging user experience. SonicFusion is developed to simplify music discovery, playback, and playlist management while ensuring seamless interaction between users and the system.

This project aims to replace traditional MP3 storage methods with a dynamic digital platform that offers users curated playlists, genre-based browsing, and artist exploration. By leveraging modern web technologies, SonicFusion provides a user-friendly interface, allowing both casual listeners and music enthusiasts to enjoy a smooth and immersive experience.

With features like music playback, personalized recommendations, and an interactive UI, the system lays the foundation for a next-generation music streaming experience, improving accessibility and enhancing overall user satisfaction.

**PROJECT DESCRIPTION**

The **SonicFusion** Music Platform is a comprehensive web-based application designed for users to explore, play, and organize music efficiently. The system is structured around key functionalities, including:

* **User Interface (UI):** Intuitive design for smooth navigation.
* **Music Library:** A vast collection of songs categorized by genre, artist, and era.
* **Music Playback:** High-quality audio streaming with interactive controls.
* **Playlist Management:** Users can create, edit, and share playlists.
* **Search & Filter Options:** Advanced search functionality for quick music discovery.
* **Secure Login & User Authentication:** Ensuring data privacy and personalized experience.
* **Admin Dashboard:** Allows authorized users to manage music collections and user interactions.
* **Reports & Analytics:** Insights into user preferences and trending music.

**PROJECT OBJECTIVE**

* To provide a seamless and intuitive music streaming experience.
* To organize music based on genre, artist, and era for easy discovery.
* To enable secure login and user authentication for personalized access.
* To offer dynamic playlist management and music recommendations.
* To ensure fast song retrieval and smooth playback functionality.
* To provide an interactive and visually appealing user interface.

**PROJECT BENEFITS**

**Easy Music Discovery:** Users can **browse, search, and explore** songs effortlessly.

* **Personalized Playlists:** Users can create custom playlists based on their music taste.
* **Interactive UI:** Modern and engaging design for an immersive listening experience.
* **Secure User Access:** Login-based authentication ensures data security and privacy.
* **Fast and Reliable Streaming:** High-quality music playback without lag.
* **Admin Panel for Music Management:** Simplifies music uploads and database organization.

**SOFTWARE REQUIREMENT**

* **Frontend:** HTML, CSS, JavaScript (React.js for dynamic UI)
* **Backend**: PHP (for server-side logic and database interactions)
* **Database**: MySQL (for storing user and music data)
* **Operating System:** Windows 10 / macOS / Linux (cross-platform compatibility)
* **Browser**: Google Chrome, Mozilla Firefox, Microsoft Edge

**HARDWARE REQUIREMENT**

* **PC/Laptop:** Intel Core i3 or higher
* **RAM:** 4GB or more
* **Hard Disk (HDD/SSD):** 100GB free space
* **Display:** 15.6" or larger screen for better UI experience
* **Input Devices:** Keyboard & Mouse / Touchscreen (for mobile versions)
* **Speakers/Headphones:** For **high-quality audio output**

**REFERENCES**

**Website References:**

* [W3Schools](https://www.w3schools.com) – Web development and PHP tutorials.
* [MDN Web Docs](https://developer.mozilla.org/) – JavaScript, CSS, and HTML documentation.
* [Stack Overflow](https://stackoverflow.com) – For troubleshooting and programming solutions.

**Text Book References:**

* "Web Development with JavaScript and PHP" by Larry Ullman.
* "Database Systems: Design, Implementation, and Management" by Carlos Coronel & Steven Morris.

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