**Songify**



**Group Members:**

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#### **Main Features of the Product**

1. **Basic Music Player Features**:
   * Play, pause, forward, and backward controls.
   * Volume control and seek bar for track navigation.
   * Repeat and shuffle functionality.
2. **Music Library Management**:
   * Browse and organize music by albums, artists, and genres.
   * Search functionality to find songs quickly.
3. **User-Friendly Interface**:
   * Clean and intuitive UI/UX design.
   * Customizable themes (light/dark mode).
4. **Offline Playback**:
   * Allow users to play downloaded music without an internet connection.
5. **Notifications and Widgets**:
   * Display currently playing song in the notification bar.
   * Home screen widget for quick access to playback controls.

**Optional Features**

1. **Optional AI Integration (Stretch Goal)**:

* + Suggest songs based on user listening history and preferences.
  + Integrate a simple AI model if time and understanding permit.

#### **Expected User Groups**

1. **General Music Listeners**:
   * Users who want a simple and efficient music player for daily use.

#### **Domain Knowledge**

1. **Music Player Basics**:
   * Understanding of media playback in Android using MediaPlayer or ExoPlayer.
   * Knowledge of handling audio files, metadata, and playlists.
2. **Android Development**:
   * Proficiency in Kotlin and Android SDK.
   * Knowledge of UI/UX design principles for mobile apps.
3. **Optional AI Integration**:
   * Basic understanding of machine learning models for recommendation systems (if pursued).
   * Familiarity with APIs or libraries like TensorFlow Lite for on-device AI (if pursued).

**Competitive Analysis**

| **Feature** | **Songify**  **(Our App)** | **Spotify** | **Google Play Music** | **Apple Music** |
| --- | --- | --- | --- | --- |
| **Basic Playback Control** | Yes | Yes | Yes | Yes |
| **Offline Playback** | Yes | Yes | Yes | Yes |
| **AI Recommendations** | Optional | Yes(advanced) | No | Yes(basic) |
| **Customizable Themes** | Yes | No | No | No |
| **Free to Use** | Yes | Yes(with ads) | No (Discontinued) | No(Subscription) |