

## Project Development Phase

Team ID	NM2023TMID04574
Project Name	How to Create a Reel Design using Canva

S.No	Development Phase	Brand Name
1.	No. of Functional Features Included in The Solution	<ul style="list-style-type: none"><li>● Music Playback: Play, pause, skip, and rewind songs. Create playlists and manage a music library. Shuffle and repeat options.</li><li>● Music Discovery: Recommendations based on user preferences. Personalized playlists and radio stations. Explore new music by genre, artist, or mood.</li><li>● Search and Browse: Search for songs, albums, and artists. Browse music by categories and genres.</li></ul>
2.	Code-Layout, Readability Reusability	<ul style="list-style-type: none"><li>• Use consistent naming conventions for variables, functions, and classes. This makes it easier to understand the purpose of different elements in the code.</li><li>• Organize code into logical modules and folders. Group related functionality together, such as separating UI code from backend logic. Use comments to document complex or critical parts of the code, explaining their purpose and any potential gotchas. Break long code blocks into smaller, manageable functions or methods. This improves code organization and makes it easier to follow.</li></ul>

3.	Utilization Algorithms, Dynamic Programming, Optimal Memo Utilization	<ul style="list-style-type: none"> <li>• Audio Compression: Implement audio compression algorithms to reduce the memory footprint of audio files. Common audio compression formats like MP3 and AAC can be used to store music in a more memory-efficient way without significantly compromising audio quality.</li> <li>Caching and Prefetching: Use caching algorithms to store recently played songs or frequently accessed data in memory. This can improve the app's responsiveness by reducing the need to fetch data from a remote server or local storage repeatedly.</li> <li>Implement prefetching strategies to load and buffer upcoming songs or content in the background, reducing load times and improving the user experience.</li> </ul>
4.	Debugging & Traceability	<ul style="list-style-type: none"> <li>• Optimize images and other media files for web use to reduce memory consumption and page load times.</li> <li>• - Minimize unnecessary data storage or variables to conserve memory.</li> </ul>
5.	Exception Handling	<ul style="list-style-type: none"> <li>• Debugging and Traceability:</li> <li>• Implement error handling and logging to facilitate debugging.</li> </ul>