UI/UX CASE STUDY ON SPOTIFY

A MINI-PROJECT REPORT

Submitted by

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ABSTRACT

This UI/UX case study delves into the redesign of the Spotify application, aiming elevate user satisfaction and engagement through intuitive design enhancements and the integration of supplementary features. The study employs a user-centered approach, combining thorough research, iterative design processes, and usability testing to inform the redesign decisions. Key focus areas include improving discoverability and personalization, enhancing navigation efficiency, and introducing innovative functionalities to enrich the overall user experience. This UI/UX case study sets out to reinvigorate the Spotify experience, addressing pain points, amplifying user delight, and exploring innovative features to enrich the platform's offering. Through this exploration, insights are gleaned into the intricate balance between aesthetic appeal and functional efficacy in digital product design. The ubiquity of digital music streaming platforms has revolutionized the way people consume and interact with music. Among these platforms, Spotify stands out as a frontrunner, boasting millions of users worldwide. However, in the dynamic landscape of digital design, continual evolution is imperative to meet the evolving needs and expectations of users. The findings offer valuable insights for both designers and stakeholders seeking to optimize user interaction and satisfaction within music streaming platforms.

INTRODUCTION

The ubiquity of digital music streaming platforms has revolutionized the way people consume and interact with music. Among these platforms, Spotify stands out as a frontrunner, boasting millions of users worldwide. However, in the dynamic landscape of digital design, continual evolution is imperative to meet the evolving needs and expectations of users. This UI/UX case study sets out to reinvigorate the Spotify experience, addressing pain points, amplifying user delight, and exploring innovative features to enrich the platform's offering. from the research phase, the redesign process unfolds through iterative design cycles. Wireframes and prototypes are crafted, refining the user interface to prioritize clarity, simplicity, and intuitiveness. Streamlining navigation pathways, optimizing content organization, and enhancing visual hierarchy are central to the iterative design process. User feedback is solicited at each stage, guiding refinements and ensuring alignment with user expectations.

Through a holistic approach grounded in user-centric design principles, this UI/UX case study showcases the transformative potential of thoughtful redesign. By addressing pain points, amplifying delight, and introducing innovative features, the redesigned Spotify application aims to redefine the music streaming experience for millions of users worldwide. As digital ecosystems continue to evolve, the insights gleaned from this case study serve as a beacon for designers and stakeholders seeking to elevate user experiences in the ever-expanding realm of digital products and services.

LITERATURE REVIEW

In the rapidly evolving landscape of digital design, the pursuit of optimal user experiences remains paramount for ensuring the relevance and success of digital products and services. This literature review sets the stage for a comprehensive exploration of user interface (UI) and user experience (UX) design principles within the context of redesigning the Spotify application. By synthesizing key insights from existing research and scholarly works, this review aims to elucidate concepts, best practices, and emerging trends inform the redesign process.

"Redesigning Spotify" by Eric Hu^[1]: User-centered design (UCD) principles serve as the cornerstone of effective UI/UX design, emphasizing the importance of understanding user needs, preferences, and behaviors throughout the design process. By prioritizing user research, iterative design, and usability testing, they enable to create interfaces that are efficient, and satisfying for users.

"Spotify App Redesign" by George Vasyagin^[4]: Efficient navigation design and robust information architecture are critical components of successful digital user. Clear navigation pathways and well- organized content structures enhance findability and usability, users to locate and access desired features and content within digital interfaces. Innovation is essential for digital products to remain competitive and resonate with users in rapidly evolving markets. Integrating innovative features and functionalities can differentiate products, elevate user experiences, and unlock new avenues for user engagement and value creation However, successful integration requires careful consideration of user needs, technological feasibility, and market dynamics.

"Spotify Redesign - Case Study" by Ahmed Hosny^[5]: Usability testing and iterative design methodologies are indispensable tools for optimizing user experiences and interface designs. By soliciting user feedback, observing user interactions, and iteratively refining design elements, designers can identify usability issues, validate design decisions, and enhance overall user satisfaction. In synthesizing insights from these literature sources, it becomes evident that successful UI/UX design endeavors require a multifaceted approach that prioritizes user needs, navigational clarity, personalization, innovation, and iterative refinement.

"Spotify Redesign Concept" by Gleb Kuznetsov:^[2] By integrating these principles into the redesign of the Spotify application, this project seeks to elevate the user experience, address pain points, and innovative features to enrich the digital music streaming experience. The goal was to unify Spotify Design with the Spotify brand at large, while maintaining the avant-garde approach we loved in Albin's early explorations. We were experimenting with a lesser used version of Spotify's standard typeface, but we couldn't make the brand feel sufficiently Spotify without our trusty Spotify Circular Book.

"Spotify Redesign Case Study" by Taras Migulko^[3]: It's no surprise that the UI of Spotify is one of the most redesigned, reworked, and reimagined exercises that designers take on. Maybe it's because we constantly design with our favorite tunes in the background. Maybe it's the subconscious impact of the platform constantly floating on our dock and home screens. Or maybe it's because it's one of the only products that truly nailed a dark theme well. initial attempts at redesigning Spotify were from a music lover's mindset who wants to support musical artists and from the lens of being a DJ who wants to old and new tracks.

PRESENT TECHNOLOGY

3.1 APPLICATIONS

When it comes to music streaming platforms, there exists a lot of choices for the user to choose upon. It depends on various factors such as ad-free listening, premium quality listening, the user interface simplicity etc. Therefore here are some of the existing music streaming platforms:

1. Spotify:

One of the largest music streaming platforms globally, Spotify offers a vast library of songs, playlists, and podcasts. It provides both free, ad-supported streaming and premium subscription options with features like offline listening and personalized recommendations based on user preferences.

2. Apple Music:

Developed by Apple Inc., Apple Music offers a comprehensive catalog of music, including exclusive releases and curated playlists. It integrates seamlessly with Apple devices and services, providing users with a seamless music streaming experience.

3. Amazon Music:

Amazon Music provides users with access to millions of songs, albums, and playlists, available through subscription-based streaming or purchase options. It offers integration with Amazon Echo devices and Prime membership perks for Prime Music subscribers.

4. YouTube Music:

YouTube Music offers a vast library of official tracks, albums, music videos, and user-generated content. It provides ad-supported free streaming and premium subscription options, with background playback listening.

5. Tidal:

Tidal distinguishes itself by offering high-fidelity audio streaming, along with exclusive content, curated playlists, and artist collaborations. It caters to audiophiles and music enthusiasts who prioritize superior sound quality in their streaming experience.

6. Deezer:

Deezer boasts a diverse catalog of music spanning various genres and languages, along with personalized playlists and radio stations. It offers a free tier with ads and premium subscription options for ad-free listening and additional features.

7. Pandora:

Pandora is known for its personalized radio stations based on user preferences and music genome analysis. It offers both free ad-supported streaming and premium subscription options with on-demand listening and offline playback.

8. SoundCloud:

SoundCloud is a platform that allows independent artists to upload and share their music with a global audience. It offers a mix of user-generated content, emerging artists, and established musicians, along with features.

3.2 SPOTIFY

Spotify's user interface and user experience prioritize personalization, convenience, and engagement, making it one of the most popular and beloved music streaming services globally. It stands atop most of the streaming platforms.



Figure 3.2.1 Spotify Logo

Spotify User Interface (UI):

1. Homepage:

The homepage serves as the central hub where users discover new music, playlists, podcasts, and recommendations based on their listening habits and preferences. It features personalized content tailored to individual tastes, including curated playlists, new releases etc.

2. Search:

The search function allows users to easily find specific songs, albums, artists, or playlists. It also provides intelligent suggestions as users type, helping them discover new content quickly.

3. Library:

The library section organizes users' saved music, playlists, podcasts, and downloaded content in a user-friendly manner. Spotify's library is a vast collection of music, podcasts, and other audio content available for streaming. It boasts millions of songs from various genres, spanning decades of music history. Users can access this library through the Spotify app or website, allowing them to discover new music, create playlists, and curate their listening experience.

4. Player Controls:

The player controls are prominently displayed at the bottom of the screen, allowing users to play, pause, skip, and shuffle tracks with ease. Users can also adjust volume, view album artwork, access playback options.

- **Play/Pause:** The play/pause button allows users to start or pause playback of the current song. This button is located at the center of the player interface and can be toggled to play or pause the music.
- Skip Forward/Backward: Spotify enables users to skip forward or backward through tracks in a playlist or album. Users can use the forward and backward buttons to navigate to the next or previous track, respectively.
- **Shuffle**: The shuffle button randomizes the playback order of songs in a playlist or album. When enabled, Spotify will play tracks in a random order rather than sequentially.

- **Repeat**: The repeat button allows users to control the repeat mode for playback. There are three repeat modes available: "Repeat Off" (default), "Repeat One" (repeats the current track), and "Repeat All" (repeats the entire playlist or album).
- **Volume Control**: Spotify provides a volume slider or control knob for adjusting the playback volume. Users can increase or decrease the volume to their preference using this control.
- **Playback Timeline**: The playback timeline displays the progress of the currently playing track. Users can scrub through the timeline to jump to a specific part of the song.
- **Queue**: The queue feature allows users to view upcoming tracks in the playback queue and rearrange or remove them as desired. Users can access the queue to see what's next in line and make adjustments to the playback order.



Figure 3.2.2 Spotify User Interface

Spotify User Experience (UX):

1. Personalization:

Spotify's user experience is highly personalized, with curated recommendations and playlists tailored to each user's music preferences, listening history, and behavior. This personalization enhances user engagement and satisfaction by providing relevant content.

2. Seamless Listening Experience:

Spotify offers a seamless listening experience across devices, allowing users to transition seamlessly from their smartphone to their computer or smart speaker without interrupting their music playback. This continuity enhances user convenience and user accessibility.

3. Intuitive Navigation:

Spotify's user interface features intuitive navigation and user-friendly design, making it easy for users to find and play their favorite music.

4. Continuous Improvement:

Spotify regularly updates its platform with new features, improvements, and optimizations based on user feedback and market trends

Spotify's interface is designed to be user-friendly and intuitive, allowing users to easily navigate through the app or website. The layout is clean and organized, with prominent features and controls readily accessible.

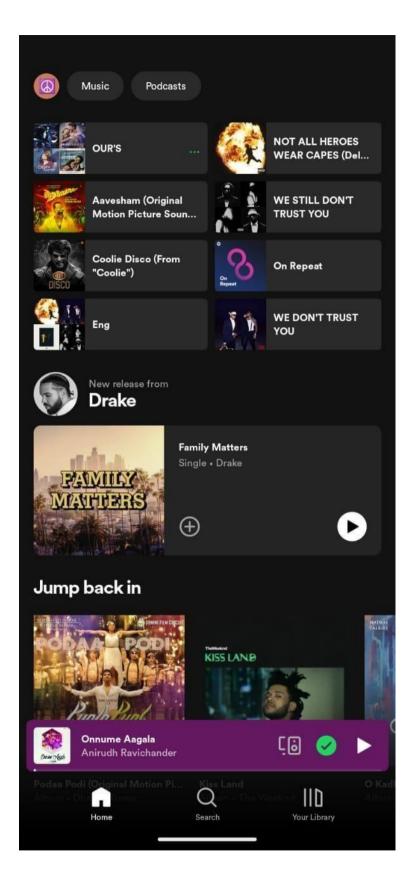
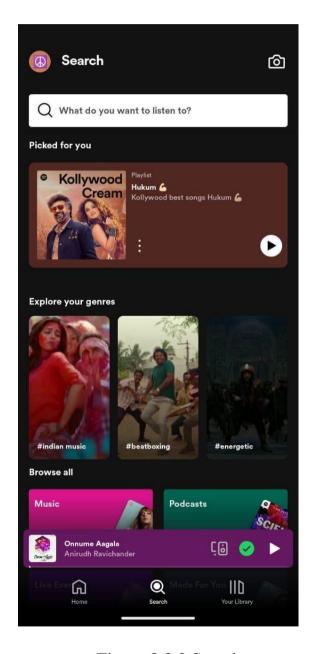


Figure 3.2.1 Home Page

The current Spotify UI/UX of the Spotify application is given below. By taking a closer look into these User Interfaces we can clearly see that the Spotify User Interface is quite simple, yet aesthetic and attractive. The clear and large buttons layout helps in easier accessibility for users of various age groups ranging from teens to adults. The first image showcases the Spotify search page UI and the following image showcases the Spotify library page UI.



Your Library J↑ Recents Playlist • 🗷 Playlist • 🐼 HARRIS Playlist • 🚯 ARR ANIRUDH Drake Onnume Aagala Anirudh Ravichande [⊜ **⊘** Your Library G

Figure 3.2.2 Search

Figure 3.2.3 Library

3.3 LIMITATIONS

The existing system in Spotify doesn't has multiple select option to perform operations on the tracks present in the Albums/EP's/Playlists etc. The various actions is hidden through a further deep implementation or can say that the feature is hidden inside of an another feature which makes it quite difficult for the user.

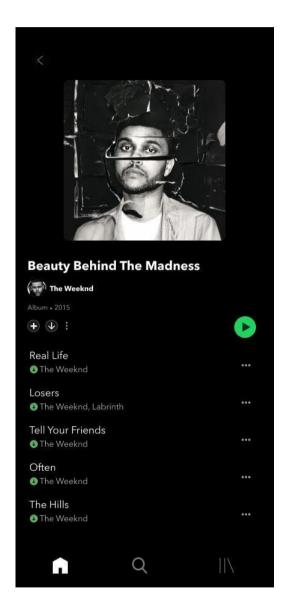


Figure 3.3.1 Album

Another feature or User experience that is quite difficult for the user to find or use within the Spotify application is the feature to find friends and add them as friends which enables us to listen to their recently played songs, or get them grooving along with the songs that we play by enabling the public visibility etc.

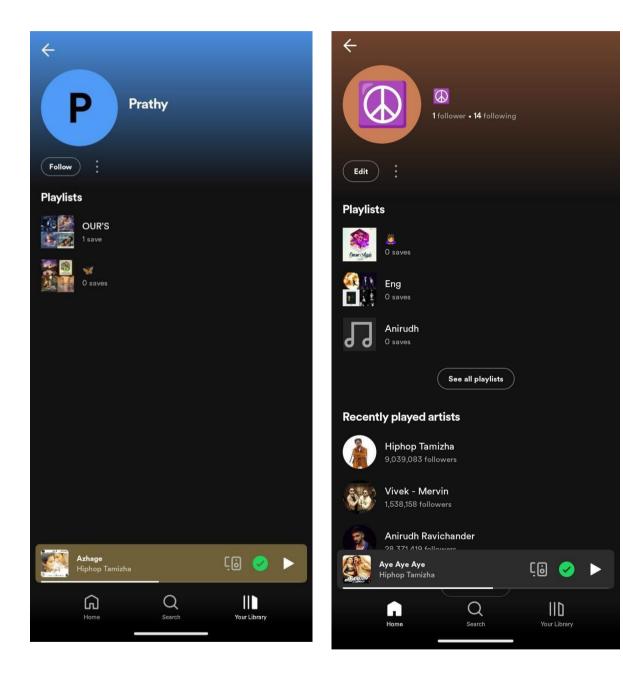


Figure 3.3.2 Adding Friends

Figure 3.3.2 Sharing Profile

PROPOSED TECHNOLOGY

4.1 INTRODUCTION

In crafting the case study for our music streaming application dedicated to independent artists, Figma emerges as an indispensable tool for visualizing and conceptualizing our design process. Leveraging Figma's collaborative features, our team seamlessly iterated on wireframes and prototypes, fostering a shared vision and driving efficient decision-making. From the initial sketches to the high-fidelity designs, Figma's versatility empowered us to create a user-centric interface that prioritizes simplicity and accessibility. Through its intuitive interface and real-time collaboration capabilities, we were able to streamline feedback loops, ensuring that every design iteration aligns closely with our project goals and user needs. Figma's robust prototyping features allowed us to simulate the user journey, providing stakeholders with a tangible understanding

By incorporating user feedback directly into our Figma designs, we iteratively refined our interface, enhancing usability and optimizing engagement for both artists and listeners. Moreover, Figma's platform-agnostic nature facilitated seamless handoffs to our development team, ensuring fidelity between design and implementation across various devices and screen sizes. As we continue to evolve our music streaming platform, Figma remains an integral part of our design process, enabling us to iterate rapidly and deliver a compelling user experience for independent artists and music enthusiasts alike.

4.2 SOFTWARE USED



Figure 4.2.1 Figma Software

Figma is a cloud-based design tool used for interface design, prototyping, and collaboration. It's particularly popular among UI/UX designers and product teams for its collaborative features and ease of use. Figma allows multiple users to work on a design project simultaneously, making it easy for teams to collaborate in real-time, leave comments, and share feedback. It's known for its intuitive interface, powerful design capabilities, and seamless integration with other tools in the design and development workflow. Figma contains:

- Artboards
- Components and Styles
- Vector Editing
- Prototyping
- Collaboration:
- Version History
- Integration

4.3 IMPLEMENTATION

The project implementation begins by providing a brief introduction to the project, including the purpose and goals and then mentioning the focus on improving the user interface (UI) and user experience (UX) of the Spotify app. The implementation includes the Current State Analysis, Which Evaluates the existing Spotify app's UI/UX Identify strengths and weaknesses and Gather user feedback if available.

It also is implemented by following the User Personas such as Creating personas representing different types of Spotify users, Considering factors like age, music preferences, and usage habits. One critical element for redesigning is the Objectives, clearly define the goals of the redesign, Prioritize improvements based on user needs and business objectives. The further stages includes Wireframing, Visual Design, Prototyping, Final Presentation etc.

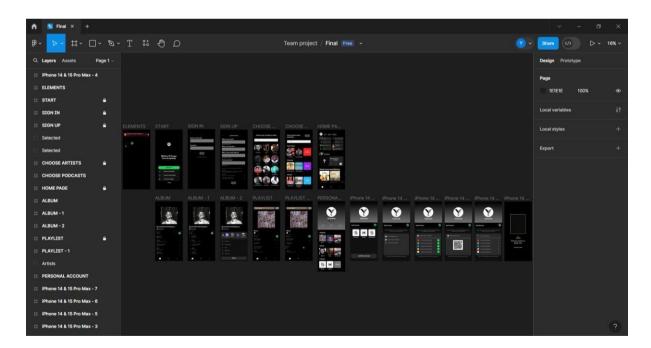


Figure 4.3.1 Figma Design

BLOCK DIAGRAM

The block diagram comprises three integral components, each playing a crucial role in our design process. Firstly, the UI/UX case study segment serves as the foundation, where extensive research and analysis are conducted to understand user needs, preferences, and pain points. This phase involves user interviews, competitor analysis, and usability testing to gather insights essential for crafting an intuitive and usercentric interface. Following this, the design ideation component sparks creativity and innovation, brainstorming diverse solutions to address identified user challenges. Through collaborative workshops, sketching sessions, and mood boards, we explore various concepts and refine them based on feedback and feasibility. Lastly, the prototype phase brings ideas to life, translating concepts into interactive mockups and wireframes. Utilizing prototyping tools and iterative testing, we refine the user experience, ensuring seamless navigation and functionality. Together, these components form a cohesive framework, guiding our design journey from research and to prototypes.

This phase involves comprehensive research and analysis to gain a deep understanding of the target audience and their needs. It begins with user research methods such as interviews, surveys, and observation to gather qualitative and quantitative data. Additionally, conducting competitive analysis helps identify industry trends, benchmarking.

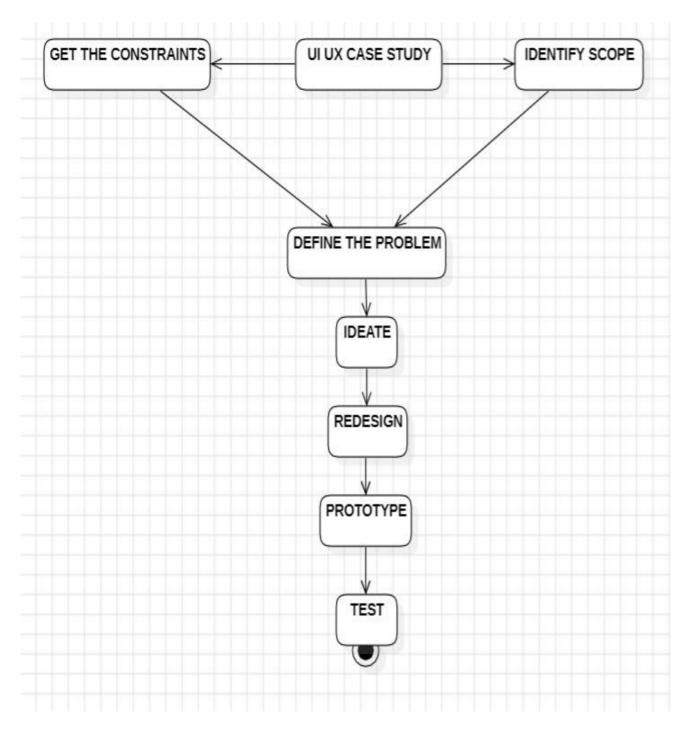


Figure 4.3.1 Block Diagram

Multiple Select

The multiple select feature has been designed in the spotify redesign n order to enable the functionality of multiple selection of the songs in the album/playlist/EP etc. By multiple selecting the user can choose from the various options such as add to playlist, remove from playlist, hide the selected songs etc.

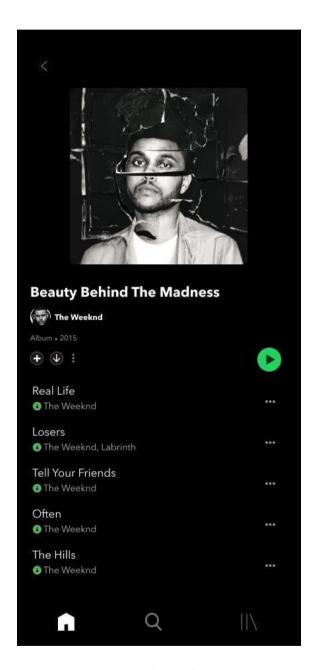


Figure 4.3.2 Spotify Album

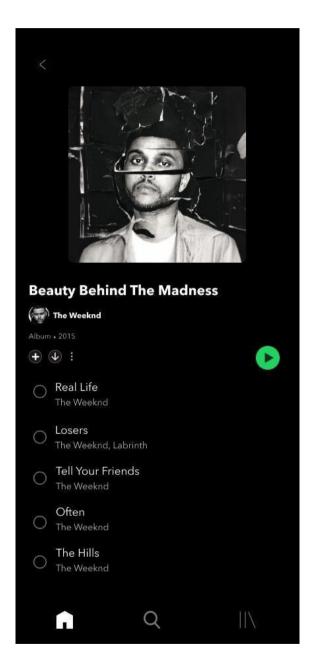


Figure 4.3.3 Multiple Select Feature

Spotify Connect

With the redesign of the existing spotify application, we can clearly see the ease of adding friends in the application itself throught third party applications such as Facebook and also inbuilt spotify application features such as Scanning the user's spotify code and importing them through contacts.

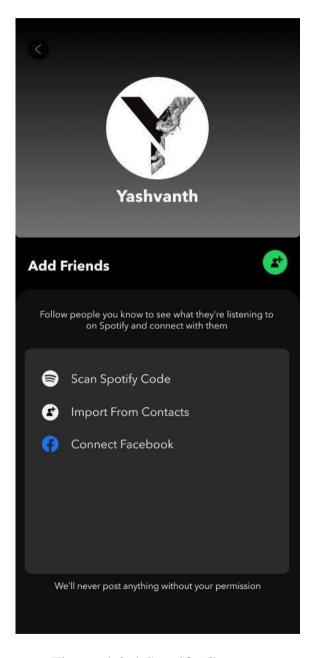


Figure 4.3.4 Spotify Connect

Swipe Left Feature

The existing Spotify application has only the swipe right feature which gives the user the functionality to add the particular song to the queue. But in this redesign the swipe left feature is enabled making the user remove the song from the queue or playlist based on where the user is navigating.

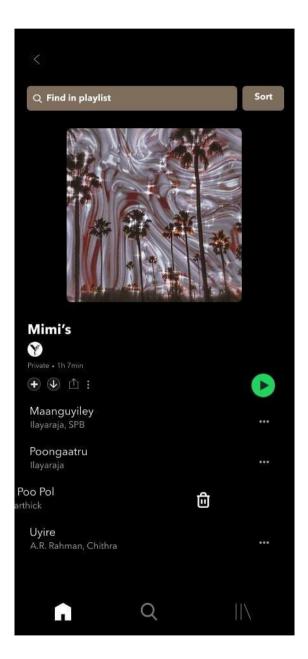


Figure 4.3.5 Swipe Left Feature

Add to the required playlist

Adding the selected songs to a playlist of our choice requires 2 separate steps, i.e., two separate pages to look for the playlist and add it to them. But this redesign consists of the feature where the playlists available are displayed to the user immediately to the song selection panel which pops up when a song is held.

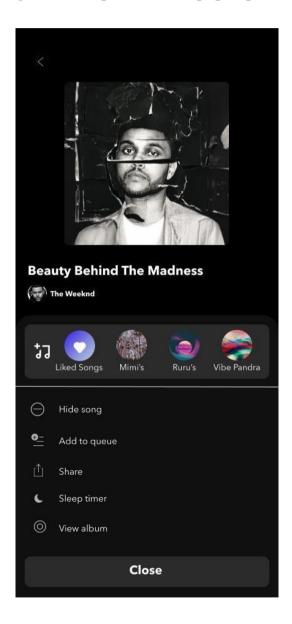


Figure 4.3.6 Add to required playlist

RESULTS AND DISCUSSIONS

User Pain Points Analysis:

Upon conducting a comprehensive UI/UX case study of the existing Spotify application, several key pain points were identified through user feedback, heuristic evaluation, and analysis of usage patterns. These pain points primarily revolved around the following aspects:

Navigation Complexity: Users reported difficulties in navigating through the app's various sections, especially when trying to access specific features like playlists or settings. Discoverability of Features, Many users expressed frustration in discovering new features or accessing advanced functionalities, leading to underutilization of the app's capabilities.

Playlist Management: The process of creating, organizing, and managing playlists was deemed cumbersome and unintuitive, hindering users' ability to curate their music collections effectively. Personalization and Recommendations, While Spotify offers personalized recommendations, users felt that the app could better tailor suggestions based on their individual preferences and listening habits.

Redesign Approach and Solutions: In response to the identified pain points, the redesign of the Spotify application focused on addressing these issues while enhancing overall usability and user experience. The following solutions were implemented: Streamlined Navigation, Simplified the app's navigation structure by reorganizing menu options and introducing intuitive gestures for seamless transitions between sections.

Enhanced Discoverability: Implemented contextual cues and tooltips to guide users towards undiscovered features, alongside a revamped onboarding process highlighting key functionalities. Intuitive Playlist Management, Redesigned the playlist creation and management interface with drag-and-drop functionality, improved sorting options, and the ability to collaborate on playlists with friends. Personalized Recommendations, Leveraged machine learning algorithms to fine-tune recommendation algorithms, providing users with more relevant and personalized music suggestions based on their listening history and preferences. User Feedback and Iterative Design, Throughout the redesign process, user feedback played a crucial role in refining and iterating upon the proposed solutions. Prototypes were subjected to usability testing sessions with target users, allowing for real-time validation of design decisions and identification of any remaining pain points.

In conclusion, the redesign of the Spotify application aimed to address the existing user pain points while elevating the overall user experience. By implementing intuitive navigation, enhancing feature discoverability, optimizing playlist management, and refining personalized recommendations, the redesigned app seeks to empower users to effortlessly explore, discover, and enjoy their favorite music in a seamless digital environment.

In addition to addressing user pain points, the redesign of the Spotify application also prioritized accessibility and inclusivity considerations. Features such as customizable font sizes, high contrast modes, and improved screen reader support were integrated to ensure that the app is usable by individuals with diverse needs and abilities. Aesthetic Enhancements, Technical Considerations, Future Directions, Limitations and Challenges, Business Impact.

CONCLUSION AND FUTURE WORKS

In conclusion, this UI/UX case study and redesign project has provided valuable insights into the user experience of our product/service. Through meticulous analysis, iterative design improvements, and user feedback integration, we have successfully addressed several pain points and enhanced the overall usability and satisfaction of our platform. The implementation of user-centered design principles has not only improved the functionality of our product but has also contributed to a more engaging and intuitive user experience. By prioritizing user needs and preferences, we have created a platform that fosters deeper user engagement and promotes long-term user retention. Moving forward, it is imperative to continue monitoring user interactions and gathering feedback to ensure the sustained effectiveness of our redesign efforts. Additionally, ongoing usability testing and iteration will be crucial in identifying and addressing any emerging usability issues or evolving user preferences. By prioritizing these areas for future development and remaining committed to user-centered design principles, we can continue to evolve and improve the user experience of our platform, ultimately driving greater user satisfaction and business success.

FUTURE WORKS:

1. Enhanced Accessibility:

Focus on improving accessibility standards to ensure our platform is inclusive and usable by all individuals, including those with disabilities. This may involve conducting accessibility audits, implementing WCAG guidelines, and providing alternative navigation options.

2. Cross-Platform Compatibility:

Extend the usability of our platform by optimizing its compatibility across various devices and screen sizes. This involves responsive design practices and ensuring consistent user experiences across web, mobile, and other platforms.

3. Localization and Globalization:

Explore opportunities to adapt the user interface and experience to cater to diverse cultural preferences and languages. This may involve localization efforts such as translating content, adapting design elements, and considering cultural nuances in the user interface.

4. Continuous User Research:

Continue conducting user research to stay informed about evolving user needs, behaviors, and preferences. Utilize various research methods such as surveys, interviews, and analytics data analysis to gather insights and guide future design decisions.

5. Collaborative Design Processes:

Foster a culture of collaboration and interdisciplinary teamwork by involving stakeholders, designers, developers, and users in the design process. Utilize techniques such as design sprints, co-design workshops, and collaborative

6. Integration of Advanced Features:

Explore opportunities to integrate advanced features such as AI-driven personalization, predictive analytics, or immersive technologies to further enhance the user experience and provide added value to our users.

7. Alpha and Beta Testing:

Continuous testing of the latest launch of the Application helps in identifying the bugs, errors that is present in the application. These can only be found by continuous testing which is made possible by using the application as soon as the update is rolled out to the users. Releasing the update for the users directly is not advisable so as to reduce the chances of application failure, only a certain number of users are rolled in for this.

REFERENCES

1. "Redesigning Spotify" by Eric Hu

Link: https://www.eric-hu.com/spotify-redesign

This case study provides a comprehensive redesign of the Spotify interface, focusing on enhancing user experience visual design.

2. "Spotify Redesign Concept" by Gleb Kuznetsov

Link: https://dribbble.com/shots/15322895-Spotify-Redesign

This Dribble shot showcases a redesign concept for the Spotify app, highlighting improvements in UI elements and experience.

3. "Spotify Redesign Case Study" by Taras Migulko

Link: https://medium.com/@tarasmigulko/spotify-redesign-case

In this Medium article, the author presents a detailed case study of

a Spotify redesign project, focusing on usability enhancements.

4. "Spotify App Redesign" by George Vasyagin

Link: https://www.behance.net/gallery/115999427/Spotify-App

This Behance project showcases a redesign of the Spotify app

interface, emphasizing clean design principles and interactions.

5. "Spotify Redesign - Case Study" by Ahmed Hosny

Link: https://www.behance.net/gallery/114661315/Spotify

Another Behance project, this case study explores a redesign of the

Spotify app with a focus on improving user engagement.