

TikTok

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1 Introduction

TikTok is a social media platform that allows users to create short videos ranging from 15 to 60 seconds. The app features a huge library of music, effects, and filters that make content creation fun and easy. TikTok quickly achieved worldwide fame due to its simple design and smooth user experience, making it suitable for all age groups, especially young people.

1.1 The main Task of Tik Tok

1. Create and edit short videos: TikTok allows users to shoot and edit short videos using a wide range of tools such as filters, sound effects, stickers, and music. The app provides simple yet effective editing tools that enable users to produce engaging and fast-paced content.

2. Displaying and Recommending Content: TikTok relies on a powerful AI algorithm to recommend content based on users' preferences and behaviors. The app displays videos that match the interests of each user, increasing the chances of engaging with the content and reaching a wider audience.

3. Social Interaction: TikTok enables users to interact with each other through comments, likes, and shares. Users can also create direct video responses to other content, which enhances communication and interaction within the community.

2 Functional requirements

- 1-Create and edit videos: The user must be able to shoot and edit videos using the built-in tools, including adding music, effects, and filters.

- 2-Interaction with content: The application should allow users to like, comment, and participate in challenges and various content.

- 3-Search and discovery: The application must provide the feature of searching for users or videos by keywords or music.

- 4-Notifications and Alerts: Providing notifications to users when there is an interaction with their content or when there are new problems or dangerous items.

5-Algorithmic recommendations: Using artificial intelligence to guide videos to control the user and their preferences.

3 Non-functional requirements

1-High performance: The application should be fast in loading and browsing, especially when watching or downloading videos.

2- Stability: The application must be stable and free from frequent crashes.

3-Security and Privacy: The application must protect user personal data and ensure that sensitive information is protected.

4-Scalability: The system must be able to handle the increase in the number of users and content effectively without affecting performance.

5-Ease of use: The application should be simple and easy to use to suit all age groups and technical levels.

4 Why TikTok is Better?

This is a comparison between applications similar to Tiktok.

App	Advantages	Disadvantages
Instagram Reels	<ul style="list-style-type: none">-Access to the large user base already present on Instagram.-Part of an ecosystem with Stories, messaging, and .interactions across the app	<ul style="list-style-type: none">-The short video feature does not receive as much focus as it does on TikTok.-Relies heavily on the existing audience, which may limit the discovery of new content outside of friends' circles.
YouTube Shorts	<ul style="list-style-type: none">-Integrated with YouTube, one of the largest video platforms in the world.-Supports extensive monetization opportunities for content through ads.	<ul style="list-style-type: none">-The short video community on YouTube is relatively new compared to TikTok.- The recommendation algorithm is not as advanced as TikTok's in terms of content personalization.

TikTok is better than these applications because it has better features and improved experience, and some of these qualities are such as :

*AI Algorithm: TikTok uses an algorithm that recommends content based on user preferences and behaviors effectively, increasing engagement and organic reach.

*Ease of Content Creation: TikTok offers easy and efficient video editing tools that allow users to create professional videos without advanced skills.

*Dedicated Community for Short Videos: Unlike other apps that include additional features, TikTok is fully focused on short videos, making it the ideal platform for users who prefer this type of content.

4.1 TikTok survey

Q1: Which social media application do you use most?

80 percent answered yes, while 20 percent answered no, which shows that it is a widely spread application and has great demand.

Q2: Is there a problem you want to solve in the application?

Overall, it can be understood that most users are satisfied with the app, but there is some concern about addiction and time spent on the app

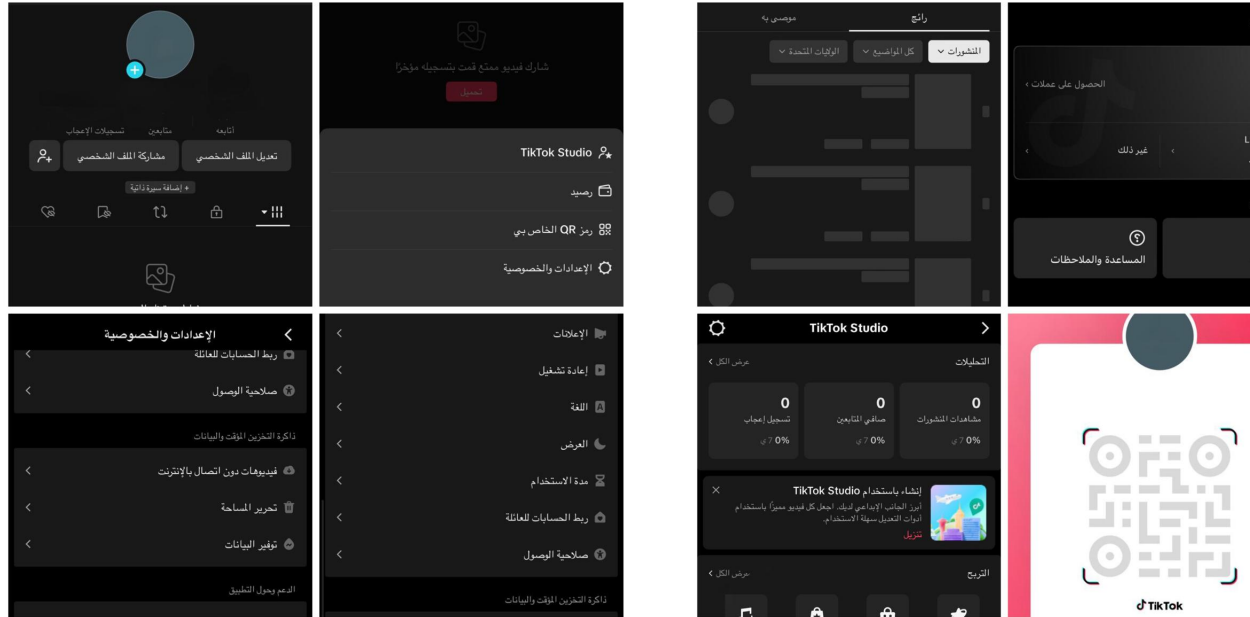
Q3: How do you rate the application?

80 percent find it an excellent application, but 20 percent disagree and see it as an acceptable application

this link the survey :

<https://docs.google.com/forms/d/1uC19qay8v2JEMB-sPjE5QE4ccy4LLrBDNr0137eAwJw/edit?pli=1>

5 TikTok interfaces



6 conclusion

In conclusion, short video applications like a TikTok are among the most prominent modern digital platforms, leveraging quick visual interaction to deliver diverse content. This is evident from the requirements that provided what the user needed very intelligently, and because of that, it outperformed similar applications, and even distinguished them from them. This is what we notice in the survey, where 80 percent prefer Tik Tok because it provides them with what they need and want. The success of such apps is due to their flexible structure, which integrates entertainment, creativity, and social connectivity. The app's structure is based on key units, such as a content creation unit that provides advanced, easy-to-use video editing tools, and a display and recommendation unit powered by AI to analyze user preferences and show videos that match their interests.

Additionally, the app includes a social interaction unit that facilitates user engagement through comments, likes, and shares, creating an environment that encourages communication and participation. Moreover, the app has an account management unit that allows users to control their profiles and security settings.

The significance of this app lies in its ability to reach a wide audience due to its ease of use and diverse content, making it one of the most important tools for communication and creative content sharing today.

7 references

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