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CANVA

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1 Introduction

Canva :It is a multi-use graphic design program that allows users to create diverse content and provides a wide range of templates, making it suitable for creating invitations, business cards, logos, and various designs easily.

2 Canva program requirement

- The program requires an internet connection to enable synchronization of edits across multiple devices.
- The program requires the user to create an account to save their designs and access them easily from multiple devices.
- The program must allow the user to create a new project through the user interface (UI) where they can select a template or a custom design.
- The program must allow the user to upload images from their device or choose from the built-in image library.
- The program must include “Undo” and “Redo” buttons that enable the user to undo recent changes or redo them.

3 Canva Program Tasks

- **Templates:** Canva provides many free ready-made templates that can be used and modified with ease. It also offers templates for designing PowerPoint presentations.
- **Tools:** Canva has a variety of tools for editing images and videos, including drawing tools, text, inserting images, sounds, and charts.
- **Group Design:** In Canva, you can invite your friends to work on designs collaboratively, which saves time and effort.

- **Automatically Save Modifications:**

Canva automatically saves your presentation,so there is no need to worry if the Internet is disconnected.

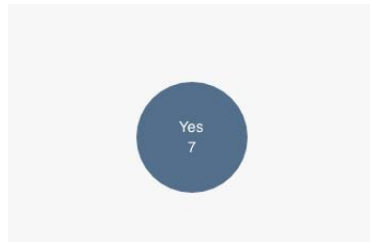
4 The purpose and services of Canva

Canva app aims primarily to enable users to create attractive and professional designs easily, as it provides ready-made templates and tools that can be used to create various types of designs such as publications, logos, cards, advertisements and more. It was designed to solve a set of problems for users and enable them to create professional designs without the need for high skills. It is a comprehensive design platform that facilitates the creation of creative content, which meets the diverse needs of individuals and companies.

5 survey about canva

As part of an assignment on Canva, we conducted a survey to gather user feedback on their familiarity with the app and their satisfaction with its features. We analyzed the data to find out their opinions.

5.1 Have you heard about Canva before?



All users in the survey are familiar with the canva app,as seen in the results

5.2 Do you see any flaws in the canva app?



Five users stated that there are no flaws in canva,while tow users mentioned that there are some , as seen in the results

5.3 Do you find canva's user interface easy to use ?



All users find canva's users interfac easy to use ,as seen in the results

5.4 would you recommend canva to your friends ?



All users will recommend canva to their frinds ,as seen in the results

5.5 Is there anything you would like to add to the app?

تحسين جودة الفيديوهات، ادوات تحرير للفيديوهات اكثر .
خطوط اكثر للغة العربية .
-
انشاء مجلدات
لا يوجد
No , thanks
نعم ارجب في تحسين تخصيص النصوص وادوات تحرير الصور في كانفا

As we can see in the results, there are many users who want additions to Canva such as improving additional tools for videos and improving quality, also adding more fonts for the Arabic language, creating folders, improving texts by adding other tools and adding customization to images.

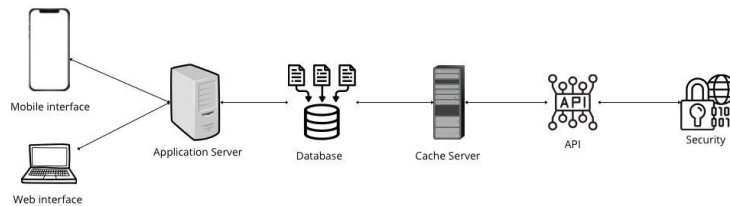
Through the opinions, we find that many prefer Canva, but it lacks some features. Canva is an easy-to-use application, so many see it as an important and necessary application for editing. With the addition of the features that users mentioned previously, It will enhance the user experience.

6 Comparison

	Canva	PicArt Photo&Video	Adobe Express
Advantage	Easy user interface photo and video editing Ready-Made Templates collaborative Design	Professional Tools Stickers and Emojis Image Layers Object Removal Trim and Merge Videos	Easy to use Variety of Templates Integration with Other Adobe Tools
Disadvantage	Limited free features internet dependency	Advertisements Complex interface	Limited features in the free version internet connection required

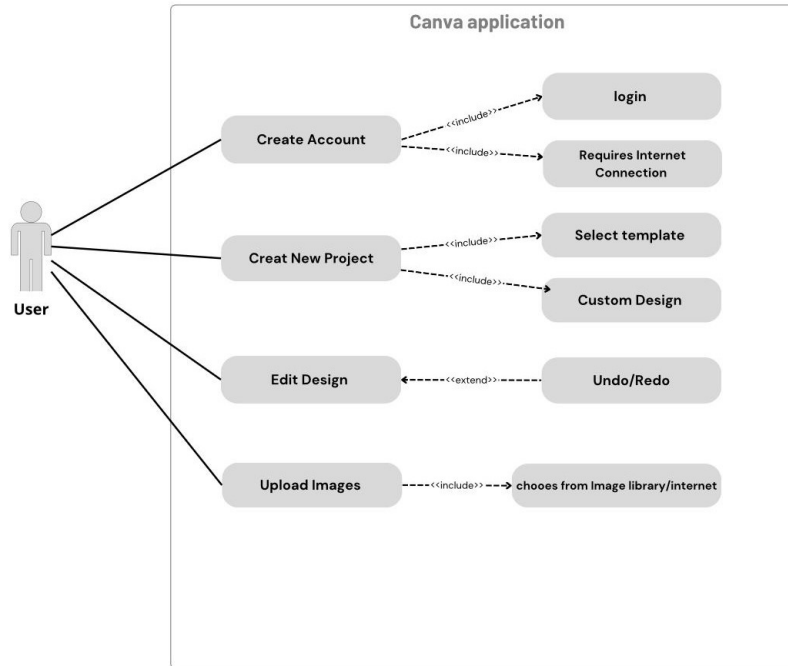
For beginners and those who need quick content creation, Canva is the best option due to its simplicity and the large variety of templates it offers. On the other hand, if your focus is more on advanced photo and video editing, Picsart photovideo stands out with its powerful editing tools, especially when dealing with visual content. For professionals looking for more advanced design capabilities and seamless integration with other Adobe products, Adobe Express is the ideal choice, offering robust design tools with the professional touch of Adobe.

7 System Architecture



8 Data Model

8.1 Use Case



9 Technical specifications

The technical specifications of the Canva application are as follows:

- Database: Canva has extensive needs for storing user data, designs, images, so they use a mix of databases. They use MySQL or PostgreSQL, and they may use databases like NoSQL, Cassandra, or MongoDB to store unstructured data like multimedia content.
- Memory: Canva requires high-spec servers for data processing, typically using servers with memory starting at 16 GB and potentially reaching 64 GB or more, depending on user load and design size..
- Services: Canva relies heavily on cloud infrastructure, primarily using Amazon Web Services (AWS) for powerful virtual servers via EC2 and file storage through S3. They may also utilize Google Cloud Platform (GCP) for some parts of their infrastructure to ensure scalability and flexibility.
- Programming language: JavaScript, Python, Ruby.

10 GitHub link

References

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