Version 1.1

Revision History

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| --- | --- | --- | --- |
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| 02/11/2022 | 1.0 | Initial version | Hoang Thu Thuy |
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# Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of the Short Videos Application (SVA). It focuses on the capabilities needed by the stakeholders and the target users, and why these needs exist. The details of how the SVA fulfills these needs are detailed in the use-case and supplementary specifications.

# Positioning

## Problem Statement (Phát biểu bài toán)

|  |  |
| --- | --- |
| **The problem of** | Common types of information such as long texts or videos begin to bring boredom to social network users. |
| **affects** | Social media users, content creators and enterprises |
| **the impact of which is** | Social network users feel bored, content creators have to invest too much in long content while the reach is decreasing. Therefore, information and advertising are also difficult to reach social network users. |
| **a successful solution would be** | The proposed solution is to shorten the transmission of information. |

## Product Position Statement (Phát biểu giải pháp)

|  |  |
| --- | --- |
| For | social media users and content creators |
| Who | watch, post, react, download short videos. |
| The (product name) | Is short video application |
| That | increase users' interest in the information posted, reduce the time to read/view a content, increase the amount of content we can access. |
| Unlike | Youtube, Facebook, Instagram, etc. They just integrate the short video part into the existing app instead of its own app |
| Our product | can ensure the cleanliness of the posted content. |

# User Descriptions

## User Profiles

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **User** | **Creator** | **Businessman** |
| **Opinion** | People use the app for entertainment, just watch and interact with videos. | Content creators who produce, edit videos and publish them. | Through the app to run ads |
| **Name** | **User** | **Creator** | **Businessman** |
| **Roles, duties, responsibilities** | The user is the main target audience of the application. Users are responsible for reacting and commenting on videos that they find useful, thereby pushing those videos to trend. This also helps interesting information will reach more people. In addition, users following accounts they like is also an incentive for creators. | Content creators are the foundation of the app. They create content, engage viewers, and make apps great. Their main responsibility is to create relevant, fresh content that attracts a steady stream of viewers and a trending audience. | Entrepreneurs are the main source of income for management and creators. Their responsibility is to find the right channel for the product they advertise, and send the product to the channel owners for them to advertise or use. Of course, these will cost money, but their products will also be known to more viewers. |
| **Skill** | basic social networking | content creation, channel theme orientation, innovation, creativity, advertising | contact, deal, social network reviews, event organization |
| **Computer experience, professional experience** | basic | average, focusing on software to support writing, designing, editing | average, focus on market analysis, data analysis. |
| **Frequency of application usage** | often (1h – 2hs/day) | Frequent (4hs – 8hs/day) | Frequent (4hs – 8hs/day) |
| **Age, gender, culture, interests** | All ages, genders, cultures. They love to explore and spend a lot of time entertaining | All ages, genders, cultures. They like to be creative and give information | Adults, all genders and all cultures. |
| **Habit** | Use social media every day. | None | None |
| **Desire** | The app features clean content filtering. | Easy to use | The application is transparent in the amount of tracking accounts. |
| **Limit** | 30-50 | (Currently don’t support) | (Currently don’t support) |
| **Other** | None | None | None |

## User Task and Environment

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Task** | **Taget** | **Performer** | **Environment** | **Frequency** | **Constraint** | **Other** |
| **Login, Register** | Create an account on the system and use it. | User, creator | Android smartphone | 1 time for 1 account | Password | None |
| **Edit profile** | Change personal page information according to user wishes. | User, creator | Android smartphone | Rarely | Account ID, password and email cannot be left blank | None |
| **Log out** | exit current account | User, creator | Android smartphone | Often | None | None |
| **Task** | **Taget** | **Performer** | **Environment** | **Frequency** | **Constraint** | **Other** |
| **Watch, react videos** | Watch, react videos | User, creator | Android smartphone | Always | Can't watch videos of the blocked account | None |
| **Follow, unfollow others** | See what an account posts on the timeline | User, creator | Android smartphone | Always | None | None |
| **Block/unblock others** | Make an account disappear from what you can see | User, creator | Android smartphone | Often | None | None |
| **Comment/reply comment/react comment** | Actions with comments | User, creator | Android smartphone | Always | Can't see the comments of the person who has been blocked | None |
| **Download Video** | Download video | User, creator | Android smartphone | Always | Only videos that the owner allows to download | None |
| **Search** | Search | User, creator | Android smartphone | Always | None | None |

## Alternatives and Competition

Tik Tok is one of the first competitors mentioned by the similarities between the two applications. They have all the features we're working on, they have a huge community that's been growing since 2016.

Facebook and Facebook Reels are our second competitors. The integration of the short videos section into the native Facebook app is both their strength and weakness. They can take advantage of their huge user base and flexibly switch between short videos and traditional forms of information. However, this makes their application cumbersome and chaotic.

Instagram Reels is the third competitor. Although it does not have a strong community like Tik Tok and Facebook, its strength is from its rich, creative and artistic content.

Youtube Short was born before both Facebook and Instagram Reels. It is inherently a video viewing application, so it is great that we can watch both short and long videos on the same application. This creates the strength of Youtube Short. The policy of paying creators directly is also one of the reasons why Youtube Short attracts the most quality creators of all the apps mentioned above. And this is our fourth competitor.

# Product Features 🡪 functional user requirements

|  |  |
| --- | --- |
| **Features** | **Brief description** |
| Login, Register, Delete account | First-time users must register an account on the system by email. Registration information includes ID and password. IDs cannot match existing IDs, and passwords cannot be too short. For users who already have an account, enter the previously registered ID and password to access the account. |
| Edit Profile | The user is allowed to change the previously registered information and all other personal information. These include: Name, date of birth, gender... |
| Log out | The user logs out of the logged in account, can save the account or not. |
| Record a short video | The user can record their short videos to post |
| Post/Delete Video | Users are allowed to post a short limited length video to the system. The posted video can be easily found in the owner's wall and other users can begin to reach the video. If the video posted is not satisfactory, the owner can delete it, the video will disappear from the system. |
| Watch, React Video | Users when seeing the videos can watch, stop, continue to watch the video or skip it. If you find the video interesting, viewers can react by heart or laugh |
| Follow, unfollow others | When they see an account posting interesting videos, viewers can follow them. This following helps the account holder's future videos reach followers. If you no longer want to follow them, click unfollow. |
| Block, unblock others | If some other user does anything to upset you, block them. This helps you never see what's associated with that account in this app again. If you don't want to block anymore, unblock it. |
| Comment/reply comment/react comment | Express your opinion on any content, using the comment feature. You will be asked to write a short paragraph expressing your thoughts about the content you are watching. You can also reply to previously existing comments. If you want to show your agreement with any comment but don't want to reply, just heart |
| Download Video | You can download and save a certain video to your phone with the download feature. However, you can only do this when the video owner allows the download. |
| Search | Search by keywords that the videos mention. When you enter a phrase, the system will suggest videos in this app that have a caption containing that phrase. |

# Non-Functional Requirements 🡪 non-functional user requiremens

|  |  |
| --- | --- |
| **Requirements** | **Brief description** |
| Show hint when searching or hint the most common content | When entering some character on search navigation bar, the app will show involved hints. |
| Filter posted content | Search and remove all false, misleading, pornographic content... |
| Camera filter | when the user record video, the app can apply a filter to make beauty. |
| Reply comment on video | Reply a comment by recording a video and stick comment on that video. |
| Edit video | Have an edit video system to edit video posted. |
| Mention others | The users can mention other users in description of their video or in a comment. |