Software Requirement Specification for

Facebook Mobile Application

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1. Introduction

This document is prepared in order to determine a software requirement specification for Facebook . Facebook is a social network on which people can add their friends , share videos and photos ,send and receive messages , comment and like on the links etc. In order to gain an overview about the report , firstly ,the purpose and scope of this document will be given , then an overall description of Facebook system is followed. In addition to these , system features such as uploading photo , sharing videos, adding friends , etc. are described deeply.

It's also your personal organizer for storing, saving and sharing photos. It's easy to share photos straight from your Android camera, and you have full control over your photos.

Facebook Mobile APP is an application that connects mobile phone users to Facebook networks. The Facebook app's home page puts links to all of the web site's features on one small, convenient screen. Your News Feed, Profile, Friends, Messages, Places, and more can be accessed from here, and your notifications are shown at the bottom of the screen. If anyone has tagged you in a post or photo or written on your wall, you'll find out about it here.

Facebook is a social media networking site that allows users to connect with friends, family, co-workers and others, including groups of people who share similar interests. Users can share pictures, videos, articles and opinions with their friends.

Facebook key statistics
- Facebook generated $116.8 billion revenue in 2021. Approximately $65 billion came from the Facebook app
- $54.5 billion of Facebook's revenue is generated in US & Canada, despite only 13% of users being based in that region
- In 2022, Facebook had an net profit of $23.1 billion

- Facebook has been downloaded over five billion times

2. Overall Description

2.1 Product Perspective

Facebook is an independent and world-wide social network website. Every person can use it online without a fee. The Facebook is not a part of a larger system, it is an independent system.

People from different regions of the world can connect to it and exchange information with other people. In order to control the contents of the sharing's and comments done by the other people, Facebook has also a control mechanism.

People can deliver their complaints about any part of the Facebook to the "Facebook Administrators". Then, "Facebook Administrators" might take appropriate actions according to the complained situation which is against the rules

2.2 PRODUCT FUNCTIONS

After creating an account and starting to use the Facebook, first thing he or she will make is searching for friends. The user will search people by their names and can send an invitation to them to add as a friend and to be able to see their shared items on Facebook.

If the person accepts the invitation, these two persons become friends on Facebook and can interact more closely such as sending messages to each other. Any user can share his/her status like whatever he is thinking, wherever he is or his current mode. Friends of this person can make a comment on that.

 Furthermore, if a user shared a photo, video, link or anything, any friend of that user can share that shared item also. Users can upload photo and video to their profiles and create an album. Anyone can create a group

and invite people to join in the group. Similarly, people can attend the activities where they are invited.

2.3 USER CHARACTERISTICS

 Facebook does not require any specific computer knowledge to use it except the developers and administrators of it. Standard users are thought to be from any age, any gender and from any nationality who can use just computer's browser.

On the other hand, administrators and potential developers need a high level of expertise to understand web technologies.

2.4 DESIGN & IMPLEMENTATION

 CONSTRAINTS Being a social network website, the software should ensure the safety of information given by the user

3- External Interface Requirements

3.1Interface Requirement

Various interfaces for the Facebook could be

1. Login Page

2. Home Page

3. There will be a screen displaying news feeds, friend request , suggestion ,etc.

3.2 Hardware Interface

The System must run over the internet, all the hardware shall require to connect internet will be hardware interface for the system. As for e.g. Modem, WAN — LAN, Ethernet Cross-Cable.

3.3 Software Interface

The system is on server so it requires the any scripting language like PHP, VBScript etc.

The system require Data Base also for the store the any transaction of the system like MYSQL etc.

system also require DNS (domain name space) for the naming on the internet. At the last user need web browser for interact with the system.

4. Specific Requirements

In this section all software requirements will explain some information to the user.

4.1 Functional Requirements

A functional requirement defines a function of a system or its component.

4.1.1 FR1: Adding Posts

A new view will display and show a composition window with various rich text and multimedia options. The user can then enter his/her post and submit it to the Facebook database. The post will be immediately displayed on the user's news feed

- **Check user can create a post from "What's on your mind? "**

-**Check user can Adding a post with text only no video and photo**

-**Verify creating a post with a single photo**

-**Verify creating a post with a single video**

-**Verify creating a post with multiple images**

-**Verify creating a post with multiple videos**

-**Verify creating a post with attached captured camera photo**

-**Verify creating a post while tagging people**

-**Verify creating a post while adding current location**

-**Verify creating a post while adding a nearby location**

-**Verify creating a post with a feeling / activity**

-**Verify creating a post with a live video**

-**Verify creating a post with a background color**

-**Verify sharing post to Instagram**

-**Verify that a post can be saved as a "draft"**

-**Verify that the post can be "public"**

-**Check user can Adding a post with privacy "Friends Only"**

-**Check user can Adding a post with privacy "Friends except some friends"**

-**Check user can Adding a post with privacy "Specific Friends"**

-Check user can Adding a post with privacy "Only me"

-Verify that the post can be set to Contact

-Check user can Adding a post to an album " already created"

-Verify that the user post can be posted to a "newly created album"

-Verify that a GIF image can be added to the text post

-Verify creating a post with any language

-Verify that the written post can be translated to the default user's mobile language

-Verify that there is a link to teach users more about post's privacy

-Verify the search bar of the feelings work correctly

-Verify the search bar of the activities work correctly

-Verify the search bar of adding GIF work correctly

4.1.2 FR2: Adding Stories

-Verify that a text can be added to story

-Verify that a single photo story can be added from the gallery

-Verify that a single video story can be added from the gallery

-Verify that a single video story can be added from mobile's camera

-Verify that multiple photo stories can be shared

-Verify that multiple video stories can be shared

-Verify that mix of photos and videos can be shared

-Verify that you can tag people to your story using "@" in the text

-Verify that you can tag people to your story using "Tag People" button

-Verify that the story can be set to public

-Verify that the story can be set to friends only

-Verify that the story can be set to be seen only by custom people

-Verify that the story can be hidden from specific people

-Verify that the story can be commented

-Verify that the story can be replied on "text only"

-Verify that the story can be replied on "emoji only"

-Verify that the story can be replied on "text and emoji"

-Verify that a list of muted stories is valid

-Verify that the story is shared to Instagram

-Verify that a sticker can be added to story

-Verify that a music can be added to story

-Verify that a effects can be added to story

-Verify that a drawing can be added to story

-Verify that an animation can be added to story

-Verify that a green screen can be added to story

-Verify that a boomerang can be added to story

-Verify that the story can be shared with any language

4.1.3 FR3: Adding Stories

- Check user can install Messenger app from Messenger icon on home page

-Check user can open Messenger app from Messenger icon on home page

-Check user can login with their current facebook mobile app account

-Check user can login with different account

-Check user can find friends they contacted before in the Chats tab

-Check user can find their active friends in People tab

-Check user can find all their contacts in the Contacts Book

-Check user can find users from Search Box

-Check user can find their groups (Chats tab and People tab)

-Check user can chat with their facebook contacts

-Check user can chat with their groups

-Check user can send messages to their contact

-Check user can react to messages sent with emojis

-Check user can interact with Polls

-Check user can see message delivery status (sending, sent, delivered, seen)

-Check user can call other participants (voice and video)

-Check user can switch from voice to video calls

-Check user can turn off camera in video call

Check user can do activities with participants (Play games, share screens, set timers, create polls, send reactions)