

# **Software Requirement Specification for Facebook**

The Facebook logo, consisting of the word "facebook" in a bold, blue, sans-serif font.

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# 1. Introduction

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SRS stands for Software Requirement Specification.

This document is prepared in order to determine the software requirement specification for **Facebook**.

Facebook is a social networking mobile application that brings you closer to the people and things you love.

Connect with friends, share what you're up to, or see what's new from others all over the world. Explore our community where you can feel free to be yourself and share everything from your daily moments to life's highlights.

Express Yourself and Connect With Friends

Add photos and videos to your story that disappear after 24 hours, and bring them to life with fun creative tools.

Message your friends with Messenger. Share and connect over what you see on Feed and Stories.

Create and discover short, entertaining videos on Facebook with Reels. Post photos and videos to your feed that you want to show on your profile.

Learn More About Your Interests

Watch videos from your favorite Creators and discover new content through Facebook Video and Reels.

Get inspired by photos and videos from new accounts in **Watch**.

Discover brands and small businesses, and shop products that are relevant to your personal style.

## 2. Overall Description

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In this section the background description of the system should have been provided.

Facebook is a social networking mobile application that brings you closer to the people and things you love.

### 2.1. Product Perspective

Facebook is an independent and world-wide network system. Every person can use it without any cost. People from different regions of the world can connect to each other via this system.

### 2.2. Product Function

After creating an account using Facebook people can search for each other and add them or follow them. After adding them as friends or follow them they can see each other's posts such as photos, videos, news feeds etc. They can like, comment, and share each other's posts. They can also chat with each other.

### 2.3. User Characteristics

Facebook does not require any computer knowledge to use it. Anyone can use it very easily.

## 2.4. Design and Implementation

Being a social networking system its design should be perfect and attractive. It should be secure enough so that the user's data and their personal information should not be leaked and those should be securely preserved in the system.

## 3. External Interface Requirements

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### 3.1. Interface Requirements

Various interfaces for Facebook could be :

Login Page , Profile Page , Home Page , Watch Page , Market Page , Messenger, Friends request Page , Gaming Page , Notifications Page , Menu Page which contain link to your profile, your shortcuts, Saved items , Your Groups.

### 3.2. Hardware Interface

The whole system runs over the internet. Without internet connection the system will not work. All the hardware should be connected to the internet such as Wifi or Mobile Data .

Software Interface:

The system is on a server so there will be some scripting languages such as PHP, HTML, VBScript etc. Database is also required for the storage purpose of any transaction like MYSQL.

## 4. Specific Requirements

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

### 4.1. Functional Requirements

#### 4.1.1. FR 1 : Registration

The user can simply sign in using a Facebook account or create a new account by providing required personal information about himself/herself. After creating the account it will display the account created successfully.

- Sign up with an email address or phone number , in case of phone number it will require a confirmation code.
- In this case you can create a username and password, and fill in your profile info.
- Sign in with a Facebook account.
- You'll be prompted to log in to your Facebook account if you're currently logged out.

#### 4.1.2. FR 2 : Profile Edit

Your personal information on Facebook can be updated and this information won't be part of your public profile on Facebook. you can edit your profile to do the below actions

→ Update your profile picture.

→ Update your Name, username and Pronouns → Add a bio or a website to your profile.

◆ You can write a bio of up to 150 characters on your profile. Please bear in mind that anyone can see your bio.

→ Update your personal information settings ◆ Email, Phone, Gender, Birthdate

### 4.1.3. FR 3 : Account Privacy Settings

By default, your Facebook account is public and you can choose to make your account private at any time. When your account is:

→ Public: Your profile and posts can be seen by anyone, on or off Facebook, even if they don't have an Facebook account.

→ Private: Only the friends or followers you approve can see what you share, including your photos or videos on hashtag and location Pages, and your list friends or followers if you make it appear.

### 4.1.4. FR4 : Social Networks Link

Connecting your Facebook account to your Social media profiles means sharing content such as stories and posts directly from Facebook to these profiles. Bear in mind that you can only connect your profile from the Facebook app for Android or iOS devices. Once you've linked accounts, you'll have the option to share a post to your social media account from the same screen where you've added a caption.

You can link with these accounts


→ Instagram → Twitter → Tumblr

### 4.1.5. FR 5 : Search

You can discover new things on Facebook based on people you friend with or follow .

### 4.1.6. FR 6 : Friends Requests

#### 4.1.6.1. Sending Friends Requests

Once you're friend with someone, their profile will say  Friends instead of Add friend. These friends' posts appear on your feed , and you have access to view their profile if you want. You can directly message these friends, but if they are not friends with you they may have to approve the message before responding.

#### 4.1.6.2. Confirming, Deleting Friends Requests

If your account is set to private, anyone who wants to see your photos or videos will have to send you a friend request, and you can

→ Confirm : He will see your account as a public

→ Delete: He won't see your account as public

### 4.1.7. FR 7 : Photos and Videos Upload

You can use Facebook to share photos and videos with your friends or followers , you can do this from 2 different places : Home page, and Profile page

#### 4.1.7.1. Add Post

→ You can Add a single post (Photo/Video)

◆ You can either use camera for a new photo/video or browse from your photos and videos

→ You can Add a carousel post (*share multiple photos/videos in one post only*)

◆ You can use mix of photos and videos either by using camera for a new photo/video or browse from your photos and videos

→ You can Write a caption

→ You can Tag people from your friends list → You can Add a location

◆ You can see a list of a nearby places to select from them  
or to search by your own location

→ You Share to other social networks

◆ Instagram, Twitter, Tumblr.

→ Save post as Draft

→ Hide like counts

→ Turn off commenting

→ Post Edit, Delete.

#### **4.1.7.2. View Posts of Friends, Your groups, My posts**

Home shows a feed of photos and videos posted by you and your friends. You can like and comment on photos in your feed

→ You can interact with any post by doing the below actions

◆ Like, Comment

◆ Share (through Messenger, or through stories or through any apps like (WhatsApp, Slack , Instagram Chats ,Gmail , Snapchat , LinkedIn , Telegram & more)

◆ Hide

#### **4.1.8. FR 8 : Stories**

With stories, you can share photos and videos that disappear from your profile, feed and messages after 24 hours, you can do this from 2 different places with the same behavior : Home page, and Profile page

##### **4.1.8.1. Adding a Story**

→ Post a single Story (Photo/Video)

◆ You can either use camera for a new photo/video or  
browse from your photos and videos → Post multi stories at once

◆ You can use mix of photos and videos either by using  
camera for a new photo/video or browse from your  
photos and videos

→ Tag people

→ Save the story to your mobile → Share the story to friends → Share the story to close friends

◆ If you didn't set the close friends list before, it will ask  
you for defining the list first then share

→ Share the story to the Messenger.

◆ You can search for the friend name to send him the  
story in the Messenger.

◆ You could select only one or more friends to send them  
the story

◆ In case of multiple friends you have 2 options

● Send story to each one individually

● Sent story to both of them in a group and you  
could name this group

→ Share the story as a post (After it is already shared as a story)

→ After it is posted from 2 places Home page, and profile page

→ You can view a stream of stories posted by you and your friends from the Home page, and you can reply on them.

#### **4.1.9. FR 9 : Messaging**

Facebook has a connected app called Messenger it is way to messaging friends, you can find it in the left side of the home page, You can chat with market Places ,with Communities ,you can make group friends and messaging each other , with non friends you will find there messages in Message Requests , you can make voice or video calls with your friends and groups , you can see who is online , and replay for different stories or Add Story for your own.

## **4.2. Non-Functional Requirements**

### **4.2.1. Security**

The system uses SSL(secured socket layer) in all transactions that include any other confidential passenger information. The system should be so secure that it should not show any cookies regarding the password or the username of the user so that no one rather than the user can access the system.

### **4.2.2. Reliability**

The system provides a database for storage for all kinds of devices whether it is a computer or mobile or something else. The reliability of the whole system depends on the reliability of the separate components. The system should be so reliable that it should not crash or hang during the user's use.

### **4.2.3. Maintainability**

There are many people who are there for the maintenance purpose of the system. They can be software engineers or a team of hackers. They are there to take care of that if there are some problems regarding the system or not.

### **4.2.4. Portability**

The system consists of scripting languages such as PHP,HTML etc. It should run on any device and any platform or in any operating system whether it is windows, OS or android.