

# NEW MEDIA WEBSITE

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# 1.Introduction

This document is prepared in order to determine a software requirement specification for Social Media Application. Our project Social Media Application is basically a social media application similar to Facebook application. Our project Social Media Application is a web-based application on which people can add their friends, share videos and photos, send and receive messages , comment etc.

## 1.1. Purpose:

The purpose of this project is to give a complete description about how this social media application works and how it can be developed. This document provides the information about what the software product is going to do and how it will help customer/people to communicate with each other and do various things on social media.

## 1.2. Document Conventions:

FRU:

Functional Requirement: User Registration and profile settings.

FRF:

Functional Requirement: Friends and suggestions.

FRP:

Functional Requirement: Posts.

FRC:

Functional Requirement: Chat.

FRA:

Functional Requirement: Advertisement

## 1.3. Intended Audience and Reading Suggestions:

This document is intended for a varied set of audiences. This document serves as a contract agreement with the stakeholders. This document is intended for the stakeholders authorities, the design team, the developers, project managers, team leads, supervisors, security analysts, testing team to better understand the system requirements.

## 1.4. Project Scope:

The name of the application is Social Media Application. It is a social network that connects people worldwide. The aim of Social Media Application is to provide information to the user about the events and the people whom they know the users of this app can add friend, post pictures, share videos, chat with their friends set privacy and profile settings can block unwanted people in their contacts and be informed about their friends. People can create social media groups for different purpose in school, colleges, universities even at work and can be informed about the events.

## 1.5 References:

These may include user interface style guides, contracts, standards, system requirements specifications, use case documents, or a vision and scope document. Provide enough information so that the reader could access a copy of each reference, including title, author, version number, date, and source or location.

## 2. Overall Description

### 2.1. Product Perspective:

The social networking website allows users to connect with their family and friends all over the globe. It gives a global platform for users around the world to connect with each other. Users can also share photos, videos, and blog and engage themselves in chatting. Besides it provides scope for advertisement. This is an independent product and will be the first release of the product.

### 2.2. Product Features:

User can register to the social networking site and login whenever he wishes to do so. User can create his profile, add, edit information, set visibility to various profile sections, so his own profile and upload profile picture to his profile. With the application users can connect with their friends and family through a common platform. A user can search for his friends and will be shown appropriate results if matching profiles are found. Any user can post status which will be visible to his connections.

### 2.3. User Classes and Characteristics:

Standard users may belong to any demographic group including any gender, nationality that can use computer's browser. The site requires its users to be above 16 years of age. It does not require its users to have any specific computer knowledge. User interface is in English language so users should have a basic English reading knowledge.

### 2.4. Operating Environment:

#### HARDWARE REQUIREMENTS:

- Pentium-IV (Processor).
- 256 MB Ram
- 512 KB Cache Memory
- Hard disk 10 GB

#### SOFTWARE REQUIREMENTS:

- Operating System : Windows
- Programming language: C#.NET
- Web-Technology: ASP.NET
- Back-End: SQL SERVER

### 2.5 Design and Implementation Constraints:

1. The website will support the following browsers: Microsoft Edge, Chrome 27.0+, and Firefox 30+.
2. The website supports English language only.
3. The website requires certificates issued by CA to use HTTPS.
4. The first version of the website is intended to be viewed best on a desktop browser.

### 2.6. Assumptions and Dependencies:

1. There will be availability of Internet via 3G, 4G, 5G or Wi-Fi.
2. The user of the site should be well acquainted with English language.
3. The user should have a valid email address in order to register into the website.

4. Central server of the system must be able to handle all the incoming requests simultaneously.
5. The user has basic knowledge of computers and Internet.

## 3. System Features

### 3.1. Functional Requirements:

Description - User will create an account if there is no existing account associated with user, email-id. User should enter account details such as name, email-id, contact number, birth date, apt. and password. All these are required fields and account creation cannot proceed unless these are filled. User is registered after this information is validated and user agrees with the terms and conditions. User must be 18 years old or more. Contact number should be a 10 digit numeric field. First and last name should not exceed 20 characters each. Password should be at least 8 characters long, at most 15 characters including at least one capital and small letter, a special character and a number.

## 4. External Interface Requirements

### 4.1. User Interfaces:

Standard users will use the web browser to use the website. Hence, it shall have a login page for users to login into the site. For those who are first time users, they will have to fill up registration details. After logging into the system, the user will be shown his profile and the wall containing the posts shared by user's friends. User is given options to log out, search people and change any of his personal settings on his home page. A daily advertisement page will be shown alongside the wall.

### 4.2. Hardware Interfaces:

N/A

### 4.3. Software Interfaces:

#### 1. E-mail Interface

This interface uses the SMTP/POP services provided by third party to send emails to the required user. This service will notify users with required actions through a conventional medium.

#### 2. Captcha Service Interface

Captcha services will be used for human identification.

### 4.4. Communications Interfaces:

The social networking website is based on HTTPS. Moreover TCP/IP is used for chatting functionality.

# 5. Nonfunctional Requirements

## 5.1. Performance Requirements:

### 1. Scalability

System should be able to handle a large number of users. For e.g. handling around Thousand users at the same time.

### 2. Speed

The application should be fast. It should not slow down with increase in the number of users. Search functionality should be fast to enable better end-user experience. The system should be quick enough to be able to respond to the user actions within a short period of time. E.g. the search user functionality of the site should perform a quick search among the users on the database.

## 5.2. Safety Requirements:

N/A

## 5.3. Security Requirements:

- During user registration, the given email address is validated.
- The password should be at least 8 characters, containing at least a small character and one capital, a number and a special character.
- Password is stored as a hash value in database.
- Re-Captcha service is used during registration for human identification.

## 5.4. Software Quality Attributes:

### 1. Usability

- User interface should be simple and clear to be understood by any user.

### 2. Availability

- The system should be available at all times. It should be ensured that there should be minimum or no downtime to ensure better user experience.
- The system should be reliable. It should yield correct results if a user performs searches for a person. Also, if the user sends message, the system should ensure that the correct message is delivered to the correct destination without any loss or change in content.

### 3. Testability

- The application should be testable. A separate test environment should be set up where testers and the Quality Assurance engineers can test the application for bugs and/or incomplete or missed requirements.

### 4. Maintainability

- The system should be developed in such a way that it is extensible. It should be easy to

incorporate new features requirements or accommodate a change in the existing requirements.