

Software Requirements Specification for AlbFB

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Revision History

Name	Date	Version
AlbFB	01/06/2020	0.1 Alpha
AlbFB	02/06/2020	0.11 Alpha
AlbFB	23/06/2020	1.0.0

1. Introduction

1.1 Purpose

The purpose of this document is to present a detailed description of the social network AlbFB. It will explain the purpose and features of the project, the interfaces of the project, what the project will do and the constraints under which it must operate. This document is intended for users of the project and also potential developers.

1.2 Document Conventions

This Document was created based on the IEEE template for System Requirement Specification Documents, and the Internet Official Protocol Standards defined by W3.

1.3 Intended Audience and Reading Suggestions

The Client, such as the product owner, who will be operating and possibly maintaining the project.

Programmers who are interested in working on the project by further developing it or to fix existing bugs.

1.4 Product Scope

AlbFB is a social network platform that people can use to share moments out of their life. Along with the usual profile registration, users can use it to make personalized posts, which other users can interact with, in the form of likes and comments. Users can also interact with each other in the form of Follows/Unfollows. Therefore the creation of a virtual friend community is made possible.

1.5 References

IEEE Template for System Requirement Specification Documents:
<https://goo.gl/nsUFwy>

GNU General Public License version 2:

<https://www.gnu.org/licenses/old-licenses/gpl-2.0.en.html>

Hypertext Transfer Protocol -- HTTP/1.1:

<https://www.w3.org/Protocols/rfc2616/rfc2616.html>

Overall Description

2.1 Product Perspective

Nowaday social media is becoming more and more popular. AlbFB is being developed for everyone who is interested in e-social interaction.

We provide an opportunity for anyone to create an online identity, connect with friends, family, and strangers alike, acquire knowledge, and share ideas and information. One's presence is represented on social media by comments, liked posts, the following like-minded individuals, and images.

The AlbFB project has an active developer team to support it. It was developed to run on any platform that can support a modern browser.

2.2 Product Functions

- CRUD operations on user profiles
- CRUD operations on posts
- Authentication
- Authorization
- User-Posts relationships such as creating posts and Likes/Unlikes and Comments/Uncomments on certain posts
- User-User relationships such as Follows and Unfollows
- Super Admin role
- Photo and Picture upload, both on user profiles and specific posts

2.3 User Classes and Characteristics

Typical Users, such as students, who want to use AlbFB to share moments out of their life with their friends.

Super Admins, whose job is to monitor the platform and to make sure the Terms of Service are being followed. Therefore these Admins need access to advanced tools and panels.

Programmers who are interested in working on the project by further developing it or to fix existing bugs.

2.4 Operating Environment

- Chrome 37 and newer
- Safari 7 and newer
- Firefox 32 and newer
- Opera 24 and newer
- Yandex 14 and newer
- IE 10 and newer

2.5 Design and Implementation Constraints

AlbFB will be developed in the MERN stack. It will use a modular MVC design where the backend API and the frontend React application will be decoupled, which will make further development and project maintenance easier. As part of the MERN stack, MongoDB will be used, which is currently cloud-hosted.

2.6 User Documentation

Tutorials will be available shortly on our website.

2.7 Assumptions and Dependencies

AlbFB will be written in Javascript and therefore any modern* browser will suffice in accessing the project.

*any browser newer than IE9 is considered 'modern'.

External Interface Requirements

3.1 Hardware Interfaces

Any computer that can fully run a modern browser is sufficient.

3.2 Software Interfaces

Any modern browser will be sufficient

3.3 Communications Interfaces

AlbFB will be using HTTP protocols, JSON data-interchange between the API and the client-side view, and JWT Authentication.

System Features

This section demonstrates AlbFb's most prominent features and explains the results they will give back to the user.

4.1 CRUD Operations on Profile

Users will be able to register on the site, with their email, password and other profile-related specifics that they would like to include on registration.

They will be able to edit their profile and change the specifics that they defined during registration.

4.2 User Post Visualization

Users will have access to a feed in which they can create new posts, see posts from other Users that they have decided to follow. These posts can be interacted furthermore by other Users, such as Liking that post and/or commenting on it.

4.3 User-User Interaction

As mentioned above, Users will be able to interact with other users in the form of profile Follow/Unfollow. This will mean that a user can stay up-to-date with posts or the things that their favourite Users have to say.

Other Nonfunctional Requirements

5.1 Performance Requirements

AlbFB should be accessed through a browser with basic requirements like an Intel Pentium 4 processor or later that's SSE2 capable and 256 megabytes of RAM.

It is possible that AlbFB can be accessed with less than minimum requirements. In such cases the development team will not provide support if the product does not function as advertised.

5.2 Safety Requirements

To ensure that no one of AlbFB's users loses any data while using AlbFB (due to a crash or a bug of some kind) the developer team will be updating AlbFB regularly.

5.3 Security Requirements

AlbFB does not have any security requirements and thus any type of user can use it without any additional privileges.

5.4 Software Quality Attributes

AlbFB provides the users with both simple and advanced features. Due to its interface, it can be used by both experts and typical users.