



**SRS DOCUMENT**

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This document describes the software requirements and specifications of Vintage. Picture Book is a cross platform image organizer and image viewer for organizing and editing digital photos. Application has a file importing and tracking features, as well as tags, facial recognition, and collections for further sorting. It offers several basic photo editing functions including colour enhancement, cropping. It provides a unique dashboard for a user to interact with, user can even mark their favourite photos. User can Create collages using provided templates. Support multiple image formats.

1. **INTENDED AUDIENCE AND READING SUGGESTIONS**

The document is intended for all the stakeholder customers and the developers – designers,

coders, testers and maintainers. The reader is assumed to have basic knowledge of Web applications, databases and user accounting.

1. **DEFINITIONS**
2. **User Account**

A user account is a location on a network server used to store a computer username,

password, and other information. A user account allows or does not allow a user to connect

to a network, another computer, or other share. Any network that has multiple users requires user accounts.

1. **Web Application**

A Web Application is an application program that is stored on a remote server and delivered over the Internet through a browser interface.

1. **Database**

A Database is a collection of information that is organized in our case it will be storing username, password and image belonging to respective ID. We can easily manage, update or delete file from our database.

1. **PROJECT SCOPE**

“Upload, Edit, Save, Repeat!”

Vintage is an online web application that enables user to upload his or her photos (max 1000 at a time) and can edit on the provided dashboard.

Let’s say Aman has clicked many photos of his friend in a party but his friends not like even a single photo Aman has clicked. Now Aman has to edit his friend’s picture quickly online not using any heavy software’s like Adobe Photoshop as it can be pretty difficult for him to edit there.

Vintage on the other hand seems to be a better option for him to quickly edit and save the photo of his friend. As Vintage provides easy to use facility to its user with the help of an interactive dashboard, a person can edit, make a collage, can use a predefined templates and even mark hi fav picture.

Vintage totally a free application that aims at integrating everything for user with interactive dashboard to play with pictures.

1. **FUNCTIONAL REQUIREMENTS**

Functional Requirement Number 1: Login/Signup

**Input**: Click on login/signup button on top right corner.

**Processing state**: User can sign-in with his or her account (if created). If user has not created account first, he needs to create an account using sign-up option.

**Output**: Now User can access any feature in Vintage.

Functional Requirement Number 2: Upload Photo

**Input**: Click on Upload photo button.

**Processing state**: User needs to upload his or her photo. Multiple photo upload is also allowed.

**Output**: Photos will be loaded on the dashboard.

Functional Requirement Number 2: Templates

**Input**: Click on Upload Template button.

**Processing state**: User can select any of the provided templates and can use it in his or her editing.

**Output**: Prebuild templates can be used.

Functional Requirement Number 2: Collage

**Input**: Click on Upload Collage button.

**Processing state**: From here user can select multiple photos at a time and can create a collage out of it.

**Output**: A collage of pictures will be created and further can be downloaded.

Functional Requirement Number 2: EDIT button

**Input**: Click on EDIT button provided under every picture.

**Processing state**: User will be redirected to a completely new page where he or she can edit image using many functions and after that image can be downloaded from there directly.

**Output**: Edit a picture individually.

Functional Requirement Number 2: LIKE button

**Input**: Click on Like button provided under every picture.

**Processing state**: Pressing a like button an image will be stored in the database can in a different tab also from where user can directly access all the like images collectively.

**Output**: User can access all marked images on a new tab.

1. **OTHER NON-FUNCTIONAL REQUIREMENTS**

**Privacy**

The user is provided with the benefit of customizing their privacy by not changing the permissions to store their pictures in database.

**Security and Safety**

Keep your password safe and don't share it with any other people, applications, or websites under any circumstances.

**USER FRIENDLY**

This application is user-friendly, meaning to say even if one just used it for the first time, he finds it easy to operate the application.

1. **OVERALL PROJECT DESCRIPTION**
2. **PRODUCT PERSPECTIVE**

Vintage Picture Book application is built on an idea that user’s picture should not be stored in any database by default for user privacy and security. Their will be an option that will also user to save work as draft in web that will be stored temporary in database that to secure. User can also store multiple images to database. The default feature of not storing user data anywhere makes Vintage trustworthy and also helps user to interact with dashboard more easily as things won’t be messy.

1. **PRODUCT FEATURES**
2. **Prebuild Templates**

Templates will be provided to the user as an option to pick it can be used as a guide to make something really awesome without in two or three clicks!!

1. **Collage**

What to combine pictures in one frame? Well Vintage provide a feature of creating a collage where a person can combine more than one picture and can create an amazing picture collage. Many free templates will be provided for collages.

1. **Filters**

Filter is a most exciting feature of Vintage. It allows user to add facial modification, different colour tone effects. User can create and purchase your own filters to birthdays, wedding, and any other event.

1. **Help and Support**

In any case of any issue facing in application from server end feel free to contact us using help and support option.

1. **ASSUMPTIONS AND DEPENDENCIES**

* Network and data availability
* Power supply
* Better connection for exchanging data over network
* Availability of web service

1. **EXTERNAL INTERFACE SPECIFICATION**
2. **USER INTERFACES**

The System will provide the ability for user to be able to view and organize their images in different formats. The images will be automatically moved to specific folder created by the user after the facial detection of the image. The users will have access to image editing operations (like crop, brightness control, contrast control, rotation, etc.).

1. **HARDWARE INTERFACES**

The Hardware should have the following specifications:

• Ability to display thousands of images as thumbnails.

• Able to read gallery

• Able to exchange data over network

• Continuous power supply

• Ability to connect to network

• Ability to take input and permissions from user

• Ability to support multiple image formats.

• Ability to Combine multiple images into a single wallpaper image.

• Ability to support different ways of image layouts.

• Ability to keep track of past edits on images.

• Ability to validate user

• Should be user friendly

1. **SOFTWARE INTERFACES**

This system will require any Operating System and proper connectivity to internet.

1. Windows
2. MacOS
3. Linus (any)
4. **COMMUNICATION INTERFACES**

The system communication interface is completely dependent on the server software to ensure the system retrieves correct images from the database. Other than that, this software is an online protocol to connect between the user and the system.

1. **TECHNICAL SPECIFICATION**
2. **PERFORMANCE CONSTRAINTS**
3. **Scalability**

Vintage should be able to provide instant editing service to multiple users at a time.

1. **PERFORMANCE**

Application must be lightweight and must be responsive.

1. **Speed**

Application’s processing speed should be so high that there should be no delay in executing user’s instructions. Also, the application should not crash repeatedly.

1. **TECHNICAL REQUIREMENTS**

1. **PROCESSOR:** i3
2. **CLOUD:** Firebase
3. **API TESTING**: Postman
4. **TOOLS:** Figma for UI
5. **TECHNOLOGIES USED:** Computer Vision, Machine Learning, Facial Recognition
6. **DEPLOYMENT:** GitHub

1. **DESIGN**
2. **Sign-in / Sign-up**









