**1.Table of Contents**

**Introduction**

**1.1 Motivations**

The primary motivation behind PexelCraft is to offer users an easy-to-use platform for searching and editing images. With the abundance of images available online, finding the right one and customizing it to meet specific needs can be time-consuming and challenging. By integrating the Pexel API for image search and the Canva API for editing, PexelCraft addresses these challenges, allowing users to efficiently find and modify images to suit their requirements. The project is driven by the vision of making image editing accessible to all, whether for personal use, professional projects, or creative endeavors.

**1.2 Project Overview**

PexelCraft is an innovative web application designed to provide a seamless experience for searching and editing images. Utilizing JavaScript, React, HTML, and CSS, PexelCraft integrates two powerful APIs—Pexel API and Canva API—to offer a comprehensive platform for users to search, customize, and download images. This project aims to simplify the image editing process, making it accessible and user-friendly for everyone.

**1.3 Problem Statement**

The traditional approach to finding and editing images often involves multiple steps and different tools, making it cumbersome and time-consuming. Users typically need to search for images on one platform, download them, and then use separate software to edit them. This fragmented process can lead to inefficiencies and hinder productivity. PexelCraft seeks to solve this problem by providing an integrated platform where users can both search for and edit images in one place. This streamlined process saves time and enhances user experience, especially for those who need to frequently customize images for various purposes.

**1.4 Objectives**

PexelCraft aims to achieve several key objectives:

1. **Integrated Image Search and Editing:** To develop a platform that combines image search and editing functionalities, allowing users to efficiently find and customize images.
2. **User-Friendly Interface:** To create an intuitive and easy-to-navigate interface that enhances the user experience, making image editing accessible to everyone.
3. **Advanced Editing Tools:** To provide a range of editing tools, including text addition, font changes, color adjustments, and resizing, enabling users to customize images to their liking.
4. **Seamless Integration with APIs:** To leverage the capabilities of the Pexel API and Canva API, ensuring a rich and diverse collection of images and editing options.
5. **Enhanced Productivity:** To streamline the image editing process, reducing the time and effort required to find and customize images.

**1.2Domain Analysis**

**2.1 Customer**

PexelCraft is designed for a broad audience, including individual users, graphic designers, content creators, and professionals who require a reliable and efficient platform for finding and editing images. While it does not currently have a contracted client, the potential customer base is extensive, covering anyone in need of easy-to-use image editing tools.

**2.2 Stakeholders**

|  |  |
| --- | --- |
| ***Stakeholder*** | | | | ***Role in System*** |
| Project Manager | | | | Oversees the development and ensures project milestones are met. |
| Developers | | | | Implement the functionalities and maintain the platform. |
| Users | | | | Utilize the platform for searching and editing images. |
| API Providers | | | | Supply the image search (Pexel API) and editing (Canva API) capabilities. |
|  |  |

**2.3 Affected Groups with Social or Economic Impact**

* **Graphic Designers:** Reduced time spent on searching and editing images, allowing them to focus on more creative tasks.
* **Content Creators:** Enhanced ability to quickly find and customize images for social media, blogs, and other digital content.
* **Educational Institutions:** Students and educators can use PexelCraft for projects and presentations, improving the quality and efficiency of their work.

**2.4 Dependencies/External Systems**

* **Pexel API:** Provides access to a vast collection of high-quality images for search and use within PexelCraft.
* **Canva API:** Powers the editing tools, enabling users to customize images with various elements and effects.
* **VS Code:** An integrated development environment (IDE) used for writing, debugging, and editing the codebase of PexelCraft.
* **GitHub:** A platform for version control and collaboration, used to manage the project’s code repository, track changes, and collaborate with team members.

**2.5 Reference Documents**

**Related Projects:**

* **Unsplash API Documentation:** Used to understand the integration and usage of image search APIs.
* **Canva API Documentation:** Consulted to effectively implement and utilize the editing functionalities.
* **Image Editing Web Applications:** Studied existing image editing platforms to gather insights on user interface and feature sets.

### 1.3.Requirements Analysis

#### 3.1 Requirements

PexelCraft is an innovative web application that significantly enhances the experience of searching and editing images by offering a comprehensive, user-friendly platform. This project addresses the fragmented and often cumbersome process traditionally associated with finding and customizing images. By integrating two powerful APIs—Pexel API for image search and Canva API for image editing—PexelCraft streamlines these activities, making them more efficient and accessible.

**Value Addition of PexelCraft:** PexelCraft adds substantial value to its users by providing an integrated platform that combines image search and editing functionalities. This seamless integration eliminates the need for users to switch between multiple tools or platforms, thereby saving time and effort. The platform is designed to be user-friendly, ensuring that even individuals with minimal technical skills can navigate and use it effectively.

**Real-time Image Search:** One of the standout features of PexelCraft is its real-time image search capability. By leveraging the Pexel API, the platform allows users to quickly find high-quality images based on their search criteria. This feature is particularly beneficial for content creators, graphic designers, and professionals who need to source images frequently and efficiently.

**Advanced Editing Tools:** PexelCraft's advanced editing tools, powered by the Canva API, enable users to customize images to meet their specific needs. These tools include options to add text, change fonts, alter text colors, resize images, and incorporate various elements such as icons and shapes. The editing interface is designed to be intuitive, allowing users to make adjustments quickly and easily.

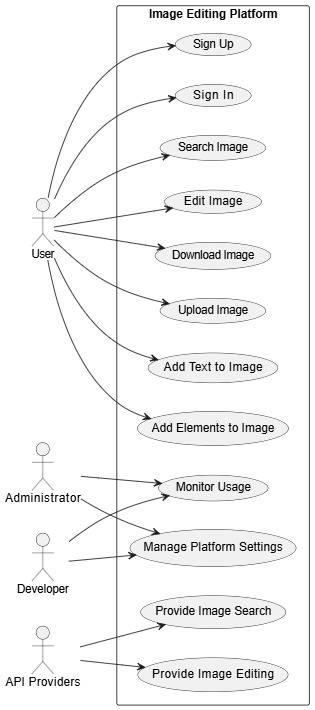
## List of Actors

|  |  |
| --- | --- |
| **Actors** | **Description** |
| Administrator | Oversees platform management and user support. |
| User | Searches for and edits images using the platform. |
| API Providers | Pexel API and Canva API providers. |
| Developer | Implements and maintains the platform. |

## List of use cases

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Primary Actors** | **Use Cases** | **Description** |
| 1 | User | Sign Up | Users can create their accounts. |
| 2 | User | Sign In | Users can sign in to their accounts. |
| 3 | User | Search Image | Users can search for images using keywords. |
| 4 | User | Edit Image | Users can edit images using the provided tools. |
| 5 | User | Download Image | Users can download the edited images. |
| 6 | User | Upload Image | Users can upload their own images for editing. |
| 7 | User | Add Text to Image | Users can add and customize text on images. |
| 8 | User | Add Elements to Image | Users can add icons, shapes, and other elements to images. |
| 9 | Admin, Developer | Monitor Usage | Admin and developers can monitor platform usage. |
| 10 | Admin, Developer | Manage Platform Settings | Admin and developers can manage platform settings and configurations. |
| 11 | API Providers | Provide Image Search | Pexel API provides access to a vast collection of images. |
| 12 | API Providers | Provide Image Editing | Canva API provides advanced image editing tools. |

## System use case diagram



**Figure 1: sample use case diagram with explanation**

## Extended use cases

Table .5: Registration Use Case

Shows the Sign in use case, Description: User create an account as company, advertiser and consumer, Email and password to Sign in

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-1 | | | |
| **Use Case Name:** | Registration | | | |
| **Created By:** | Aadam Hashmi  Sahra Parvaiz | | **Last Updated By:** | Aadam Hashmi  Sahra Parvaiz |
| **Date Created:** | 26/12/24 | | **Last Revision Date:** |  |
| **Actors:** | | User | | |
| **Description:** | | Users will sign up through email address or social media accounts. | | |
| **Trigger:** | | Screen for sign-up. | | |
| **Preconditions:** | | User must have internet connectivity.  User must access the PexelCraft application or website. | | |
| **Post conditions:** | | Registration should be Successful. | | |
| **Normal Flow**: | | User opens the PexelCraft application or website.  System prompts user to enter email address.  System prompts user to enter password.  System prompts user to create an account.  System confirms successful registration. | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | The user can also sign up through Facebook, Instagram, and Twitter. | | |
| **Exceptions:** | | If the user enters an invalid email or password, account creation fails, and the user is prompted to re-enter details. | | |
| **Includes:** | | Sign up with Gmail, Facebook, and Instagram. | | |
| **Frequency of Use:** | | On demand | | |
| **Special Requirements:** | | 1. Integrate Gmail or Facebook SDK 2. Edit Resources and Manifest | | |

Table .5: Sign-In Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-2 | | | |
| **Use Case Name:** | Sign In | | | |
| **Created By:** | Aadam Hashmi  Sahra Parvaiz | | **Last Updated By:** | Aadam Hashmi  Sahra Parvaiz |
| **Date Created:** | 26/12/24 | | **Last Revision Date:** |  |
| **Actors:** | | User | | |
| **Description:** | | Users will sign in through email address | | |
| **Trigger:** | | Screen for sign-in. | | |
| **Preconditions:** | | User must have internet connectivity.  User must access the PexelCraft application or website.  Valid email and password to login. | | |
| **Post conditions:** | | Successful login. | | |
| **Normal Flow**: | | User opens the PexelCraft application or website.  System prompts user to enter email address.  System prompts user to enter password.  System verifies the credentials.  System confirms successful login. | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | The user can also sign in through Facebook, Instagram, and Twitter. | | |
| **Exceptions:** | | If the user enters an invalid email or password, login fails, and the user is prompted to re-enter details. | | |
| **Includes:** | | Sign up with Gmail, Facebook, and Instagram. | | |
| **Frequency of Use:** | | On demand | | |
| **Special Requirements:** | | Integrate Gmail or Facebook SDK  Edit Resources and Manifest | | |

### Table 3.6: Search Image Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-3 | | | |
| **Use Case Name:** | Search Image | | | |
| **Created By:** | Aadam Hashmi  Sahra Parvaiz | | **Last Updated By:** | Aadam Hashmi  Sahra Parvaiz |
| **Date Created:** | 26/12/24 | | **Last Revision Date:** |  |
| **Actors:** | | User | | |
| **Description:** | | Users can search for images using keywords. | | |
| **Trigger:** | | User enters a keyword and clicks the search button. | | |
| **Preconditions:** | | User must be logged in. | | |
| **Post conditions:** | | Display relevant images based on the keyword. | | |
| **Normal Flow**: | |  User logs in.   User enters a keyword in the search bar.   System displays relevant images | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | None. | | |
| **Exceptions:** | | If no images are found, display a message. | | |
| **Includes:** | | None. | | |
| **Frequency of Use:** | | On demand. | | |
| **Special Requirements:** | | None. | | |

### Table 3.7: Edit Image Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-4 | | | |
| **Use Case Name:** | Edit Image | | | |
| **Created By:** | Aadam Hashmi  Sahra Parvaiz | | **Last Updated By:** | Aadam Hashmi  Sahra Parvaiz |
| **Date Created:** | 26/12/24 | | **Last Revision Date:** |  |
| **Actors:** | | User | | |
| **Description:** | | Users can edit images using the provided tools. | | |
| **Trigger:** | | User selects an image to edit. | | |
| **Preconditions:** | |  User must be logged in.   User must have selected an image. | | |
| **Post conditions:** | | Image is successfully edited and saved. | | |
| **Normal Flow**: | |  User selects an image.   System opens the image in the editor.   User applies edits using available tools.   System saves the edited image. | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | None | | |
| **Exceptions:** | | If editing tools fail, display an error message. | | |
| **Includes:** | | None | | |
| **Frequency of Use:** | | On demand | | |
| **Special Requirements:** | | None | | |

### Table 3.8: Download Image Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-5 | | | |
| **Use Case Name:** | Download Image | | | |
| **Created By:** | Aadam Hashmi  Sahra Parvaiz | | **Last Updated By:** | Aadam Hashmi  Sahra Parvaiz |
| **Date Created:** | 26/12/24 | | **Last Revision Date:** |  |
| **Actors:** | | User | | |
| **Description:** | | Users can download the edited images. | | |
| **Trigger:** | | User clicks the download button. | | |
| **Preconditions:** | |  User must be logged in.   User must have edited an image. | | |
| **Post conditions:** | | Image is successfully downloaded. | | |
| **Normal Flow**: | |  User clicks the download button.   System prepares the image for download.   System initiates the download process. | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | None | | |
| **Exceptions:** | | If download fails, display an error message. | | |
| **Includes:** | | None | | |
| **Frequency of Use:** | | On demand | | |
| **Special Requirements:** | | None | | |

### Table 3.9: Upload Image Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-6 | | | |
| **Use Case Name:** | Upload Image | | | |
| **Created By:** | Aadam Hashmi  Sahra Parvaiz | | **Last Updated By:** | Aadam Hashmi  Sahra Parvaiz |
| **Date Created:** | 26/12/24 | | **Last Revision Date:** |  |
| **Actors:** | | User | | |
| **Description:** | | Users can upload their own images for editing. | | |
| **Trigger:** | | User clicks the upload button | | |
| **Preconditions:** | |  User must be logged in. | | |
| **Post conditions:** | | Image is successfully uploaded. | | |
| **Normal Flow**: | |  User clicks the upload button.   System prompts the user to select an image file.   User selects an image file.   System uploads the image. | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | None | | |
| **Exceptions:** | | If upload fails, display an error message. | | |
| **Includes:** | | None | | |
| **Frequency of Use:** | | On demand | | |
| **Special Requirements:** | | None | | |

### Table 3.10: Add Text to Image Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-7 | | | |
| **Use Case Name:** | Add Text to Image | | | |
| **Created By:** | Aadam Hashmi  Sahra Parvaiz | | **Last Updated By:** | Aadam Hashmi  Sahra Parvaiz |
| **Date Created:** | 26/12/24 | | **Last Revision Date:** |  |
| **Actors:** | | User | | |
| **Description:** | | Users can add and customize text on images. | | |
| **Trigger:** | | User selects the text tool. | | |
| **Preconditions:** | |  User must be logged in.   User must have selected an image. | | |
| **Post conditions:** | | Text is successfully added and customized. | | |
| **Normal Flow**: | |  User selects the text tool.   System prompts the user to enter text.   User enters text.   User customizes the text (font, color, size).   System adds the text to the image. | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | None | | |
| **Exceptions:** | | If text addition fails, display an error message. | | |
| **Includes:** | | None | | |
| **Frequency of Use:** | | On demand | | |
| **Special Requirements:** | | None | | |
|  | |  | | |

### Table 3.12: Monitor Usage Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-8 | | | |
| **Use Case Name:** | Monitor Usage | | | |
| **Created By:** | Aadam Hashmi  Sahra Parvaiz | | **Last Updated By:** | Aadam Hashmi  Sahra Parvaiz |
| **Date Created:** | 26/12/24 | | **Last Revision Date:** |  |
| **Actors:** | | Admin , Developer | | |
| **Description:** | | Admin and developers can monitor platform usage statistics. | | |
| **Trigger:** | | Admin/Developer accesses the usage monitoring dashboard. | | |
| **Preconditions:** | | Admin/Developer must be logged in with appropriate permissions. | | |
| **Post conditions:** | | Usage data is successfully monitored and analyzed. | | |
| **Normal Flow**: | |  Admin/Developer logs in.   System displays the usage monitoring dashboard.   Admin/Developer reviews usage statistics and data. | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | None | | |
| **Exceptions:** | | If the monitoring dashboard fails to load, display an error message. | | |
| **Includes:** | | None | | |
| **Frequency of Use:** | | Regularly | | |
| **Special Requirements:** | | None | | |

### Table 3.13: Manage Platform Settings Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-9 | | | |
| **Use Case Name:** | Manage Platform Settings | | | |
| **Created By:** | Aadam Hashmi  Sahra Parvaiz | | **Last Updated By:** | Aadam Hashmi  Sahra Parvaiz |
| **Date Created:** | 26/12/24 | | **Last Revision Date:** |  |
| **Actors:** | | Admin , Developer | | |
| **Description:** | | Admin and developers can manage platform settings and configurations. | | |
| **Trigger:** | | Admin/Developer accesses the settings menu. | | |
| **Preconditions:** | | Admin/Developer must be logged in with appropriate permissions. | | |
| **Post conditions:** | | Settings are successfully managed and saved. | | |
| **Normal Flow**: | |  Admin/Developer logs in.   System displays the settings menu.   Admin/Developer modifies platform settings.   System saves the new settings. | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | None | | |
| **Exceptions:** | | If saving settings fails, display an error message. | | |
| **Includes:** | | None | | |
| **Frequency of Use:** | | As needed. | | |
| **Special Requirments** | | None | | |

### Table 3.14: Provide Image Search Use Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-10 | | | |
| **Use Case Name:** | Provide Image Search | | | |
| **Created By:** | Aadam Hashmi  Sahra Parvaiz | | **Last Updated By:** | Aadam Hashmi  Sahra Parvaiz |
| **Date Created:** | 26/12/24 | | **Last Revision Date:** |  |
| **Actors:** | | API Providers | | |
| **Description:** | | Pexel API provides access to a vast collection of images for search. | | |
| **Trigger:** | | User initiates an image search. | | |
| **Preconditions:** | | Pexel API must be integrated and functional. | | |
| **Post conditions:** | | Images are successfully retrieved and displayed. | | |
| **Normal Flow**: | |  User initiates an image search.   System sends a request to the Pexel API.   Pexel API retrieves and returns relevant images.   System displays the images to the user. | | |
| **Alternative Flows:**  **[Alternative Flow 1 – Not in Network]** | | None | | |
| **Exceptions:** | | If the API request fails, display an error message. | | |
| **Includes:** | | None | | |
| **Frequency of Use:** | | On demand. | | |
| **Special Requirements:** | | None | | |

# 4.Data flow diagram

## Data Flow Diagram Level 0

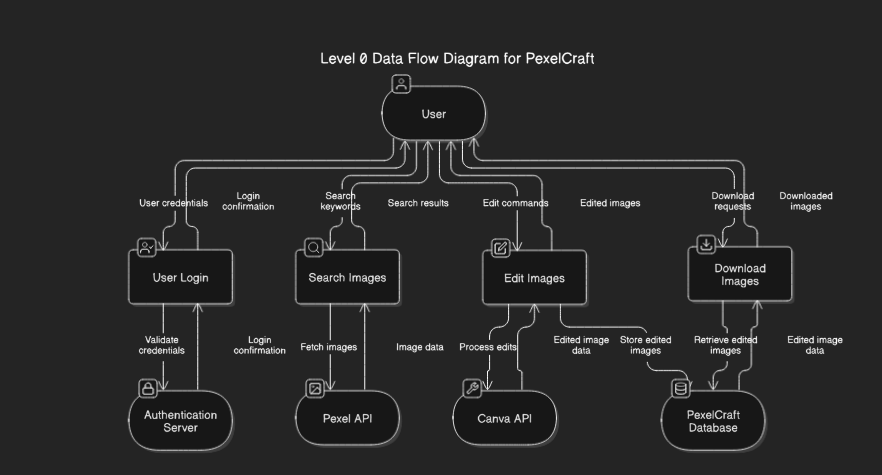
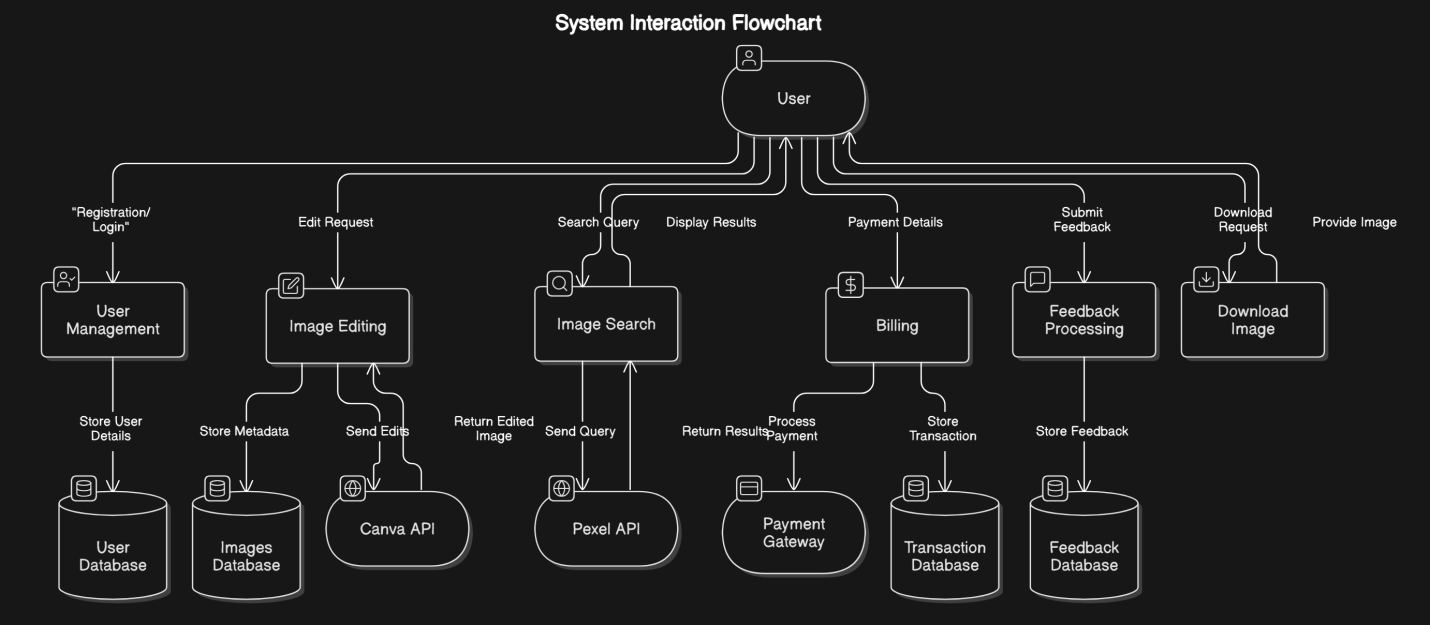


Figure .1: Data Flow Diagram

## Data Flow Diagram Level 1



# System Design

## System Architecture Diagram

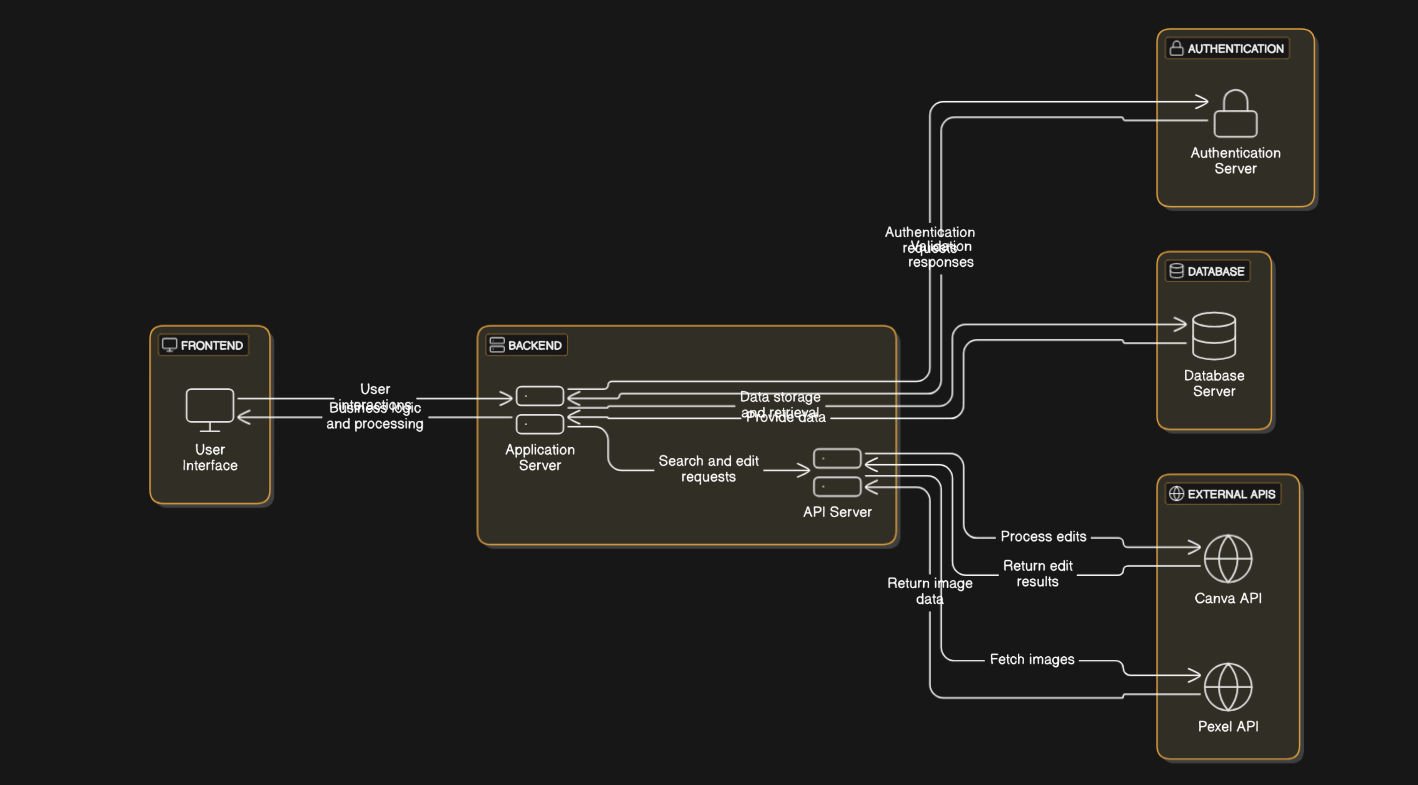


Figure .1: System Architecture

## Class Diagram

## 

Figure .2: Class Diagram

## Sequence Diagrams

**Sequence diagram: 1**

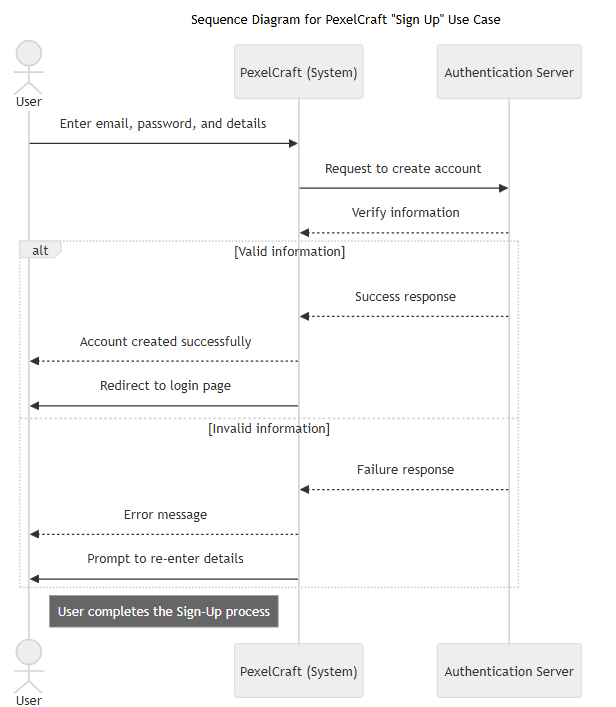
****

Figure .3: SIGnUP

**Sequence diagram: 2**

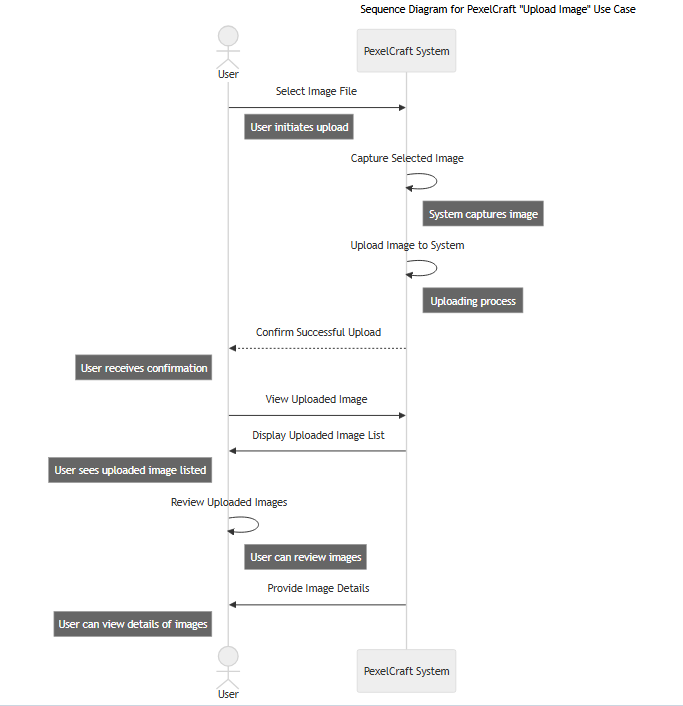


Figure .4UPLOAD IMAGE

**Sequence diagram: 3**

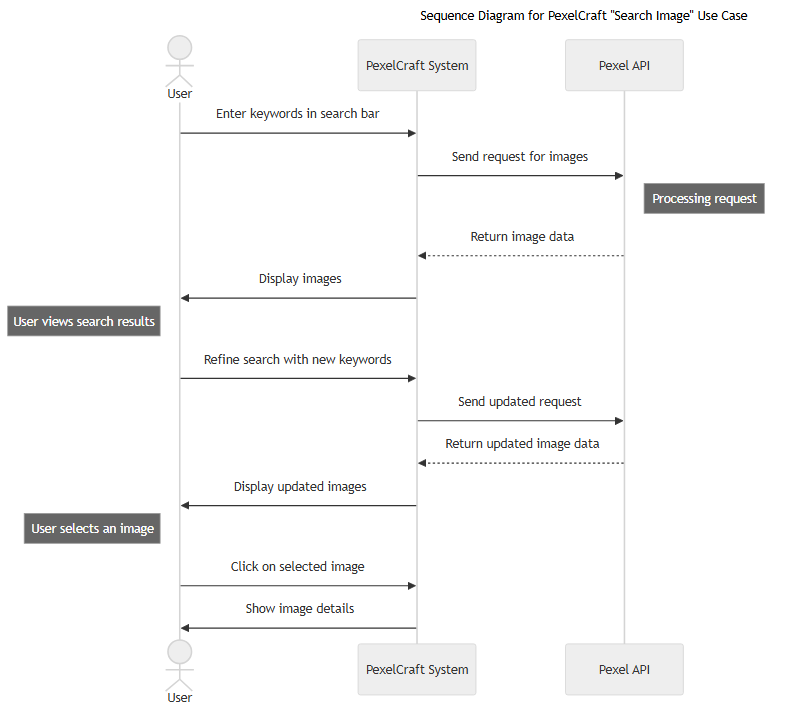
****

Figure .5: Search Image

**Sequence diagram: 4**

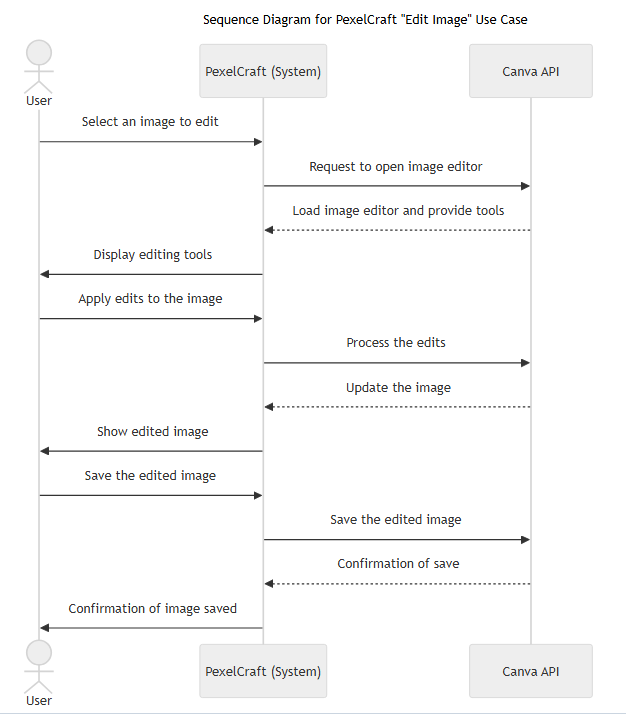
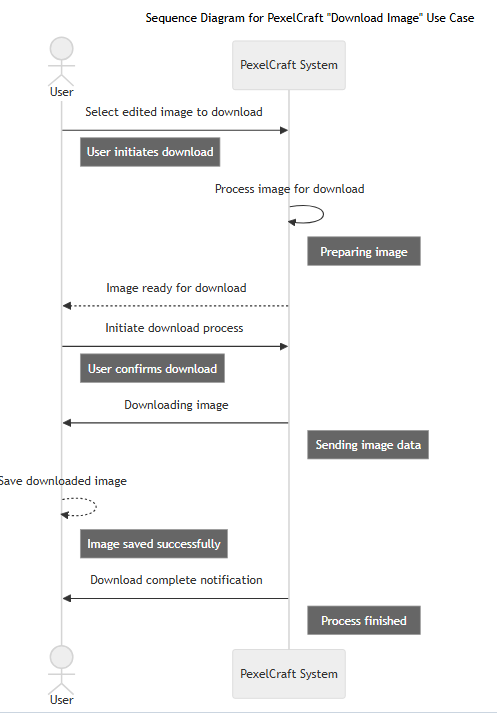


Figure .6: Edit Image

**Sequence diagram: 5**

****

DOWNLOAD IMAGE

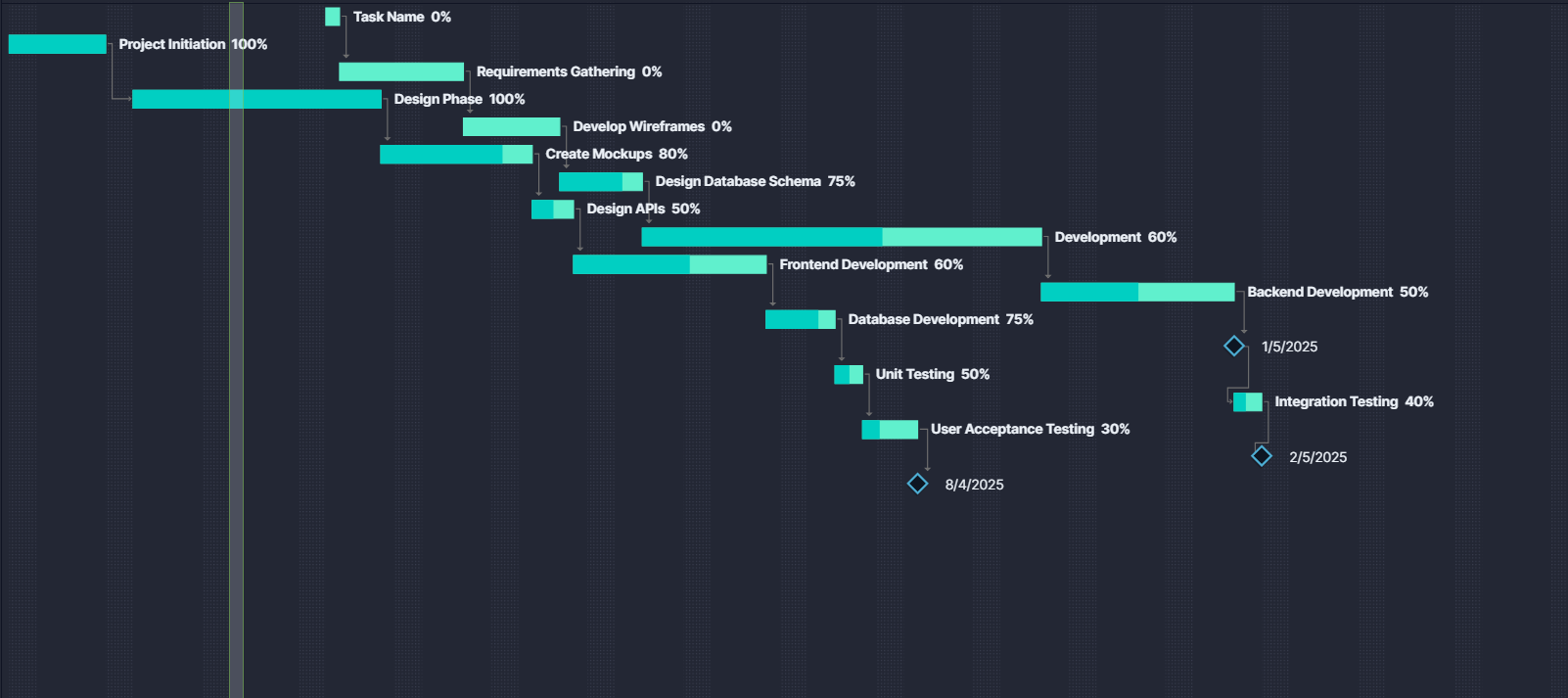
5.Work Breakdown Structure (WBS)

# Project Scheduling & Prototyping

## 5.1 Work Breakdown Structure (WBS)

## 

## 5.2 Gantt-Chart for Work Breakdown Structure (WBS)



## 5.3 Critical Path:

## 

Testing

 6.1 Test Cases

|  |  |
| --- | --- |
| **Test Case ID: 1** | **Test Design By: Aadam** |
| **Test Module Name**: Login | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test login functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the login button will provide login functionality. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
|  |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the form with credentials | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Click on login Button | - | Pop-up shows "Login successful" | The user logged in successfully | Pass | - |

**Post-Condition**: User will be logged into their account.

**Table 7.2: Test Case (Search)**

Shows the search use case: Description: User searches for images using keywords.

|  |  |
| --- | --- |
| **Test Case ID: 2** | **Test Design By: Aadam** |
| **Test Module Name**: Search | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test search functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the search button provides search results. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |
|  | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** | | 1 | Open the website | - | - | - | Pass | - | | 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - | | 3 | Click on search bar | Keywords: "nature" | Display search results | Search results displayed | Pass | - | |

**Post-Condition**: User will see the search results.

**Table 7.3: Test Case (Edit Image)**

Shows the image editing use case: Description: User edits an image using provided tools.

|  |  |
| --- | --- |
| **Test Case ID: 3** | **Test Design By: Aadam** |
| **Test Module Name**: Edit Image | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test image editing functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the image editing tools work correctly. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Select image to edit | - | Image is loaded into editor | Image loaded successfully | Pass | - |
| 4 | Apply edits | Add text: "Hello" | Text added to image | Text added successfully | Pass | - |

**Post-Condition**: User will see the edited image.

**Table 7.4: Test Case (Download Image)**

Shows the image download use case: Description: User downloads an edited image.

|  |  |
| --- | --- |
| **Test Case ID: 4** | **Test Design By: Aadam** |
| **Test Module Name**: Download Image | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test image download functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the image download button works correctly. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Select edited image | - | Edited image is displayed | Edited image displayed | Pass | - |
| 4 | Click download button | - | Image download starts | Image downloaded successfully | Pass | - |

**Post-Condition**: User will have the image downloaded to their device.

**Table 7.5: Test Case (Upload Image)**

Shows the image upload use case: Description: User uploads an image to the system.

|  |  |
| --- | --- |
| **Test Case ID: 5** | **Test Design By: Aadam** |
| **Test Module Name**: Upload Image | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test image upload functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the image upload button works correctly. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Click upload button | Select image: "sample.jpg" | Image is uploaded | Image uploaded successfully | Pass | - |

**Post-Condition**: User will see the uploaded image listed.

**7.2 Decision Table**

**7.2.1 Decision Coverage Table (Login)**

**Table 7.6: Decision coverage table (Login)**

This table describes the conditions of each test case for the login screen.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** | **Rule 3** | **Rule 4** |
| Correct User ID | T | T | F | F |
| Correct Password | T | F | T | F |
| **Actions** |  |  |  |  |
| Successful Login | ✓ |  |  |  |
| Invalid User ID or Password |  | ✓ | ✓ |  |
| Unsuccessful Login |  |  |  | ✓ |

**7.2.2 Decision Coverage Table (Search)**

**Table 7.7: Decision coverage table (Search)**

This table describes the conditions of each test case for the search screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Find search bar Completely filled | T | F |
| **Actions** |  |  |
| Search should find Successfully | ✓ |  |
| Information Missing |  | ✓ |
| Search result Unsuccessful |  | ✓ |

**7.2.3 Decision Coverage Table (Edit Image)**

**Table 7.8: Decision coverage table (Edit Image)**

This table describes the conditions of each test case for the image editing screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Image selected for editing | T | F |
| **Actions** |  |  |
| Edit successful | ✓ |  |
| Information Missing |  | ✓ |
| Edit Unsuccessful |  | ✓ |

**7.2.4 Decision Coverage Table (Download Image)**

**Table 7.9: Decision coverage table (Download Image)**

This table describes the conditions of each test case for the image download screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Image selected for download | T | F |
| **Actions** |  |  |
| Download successful | ✓ |  |
| Information Missing |  | ✓ |
| Download Unsuccessful |  | ✓ |

**7.2.5 Decision Coverage Table (Upload Image)**

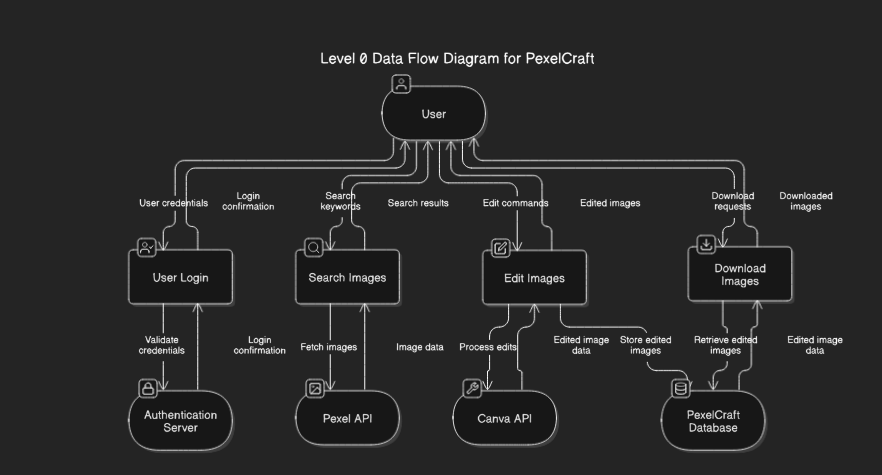
**Table 7.10: Decision coverage table (Upload Image)**

This table describes the conditions of each test case for the image upload screen.

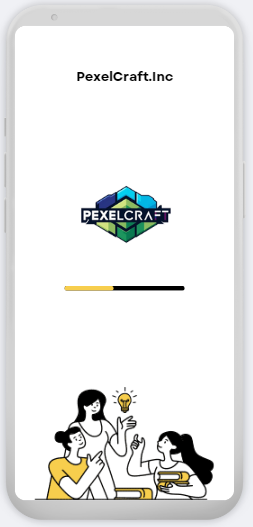
|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Image file selected for upload | T | F |
| **Actions** |  |  |
| Upload successful | ✓ |  |
| Information Missing |  | ✓ |
| Upload Unsuccessful |  | ✓ |

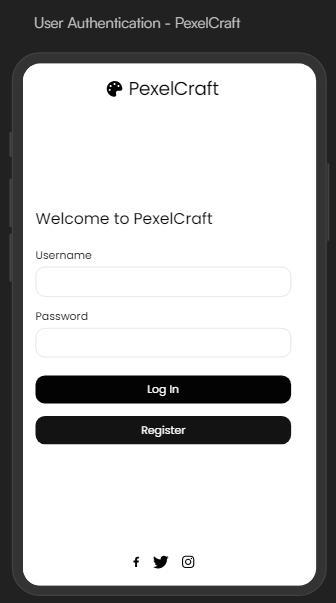
**2. Table of Acronyms**

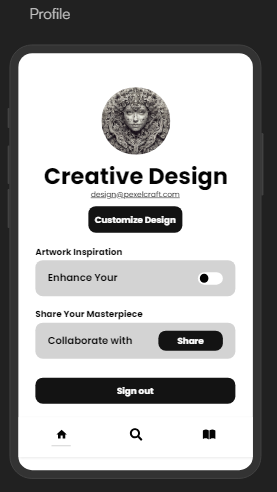
DFD

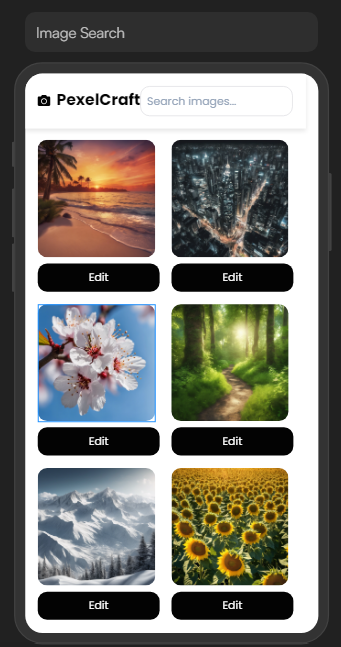


 UI: User Interface

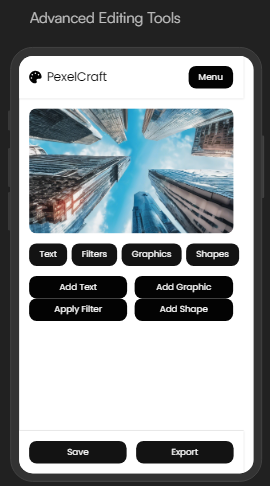




****

****

* WBS: Work Breakdown Structure

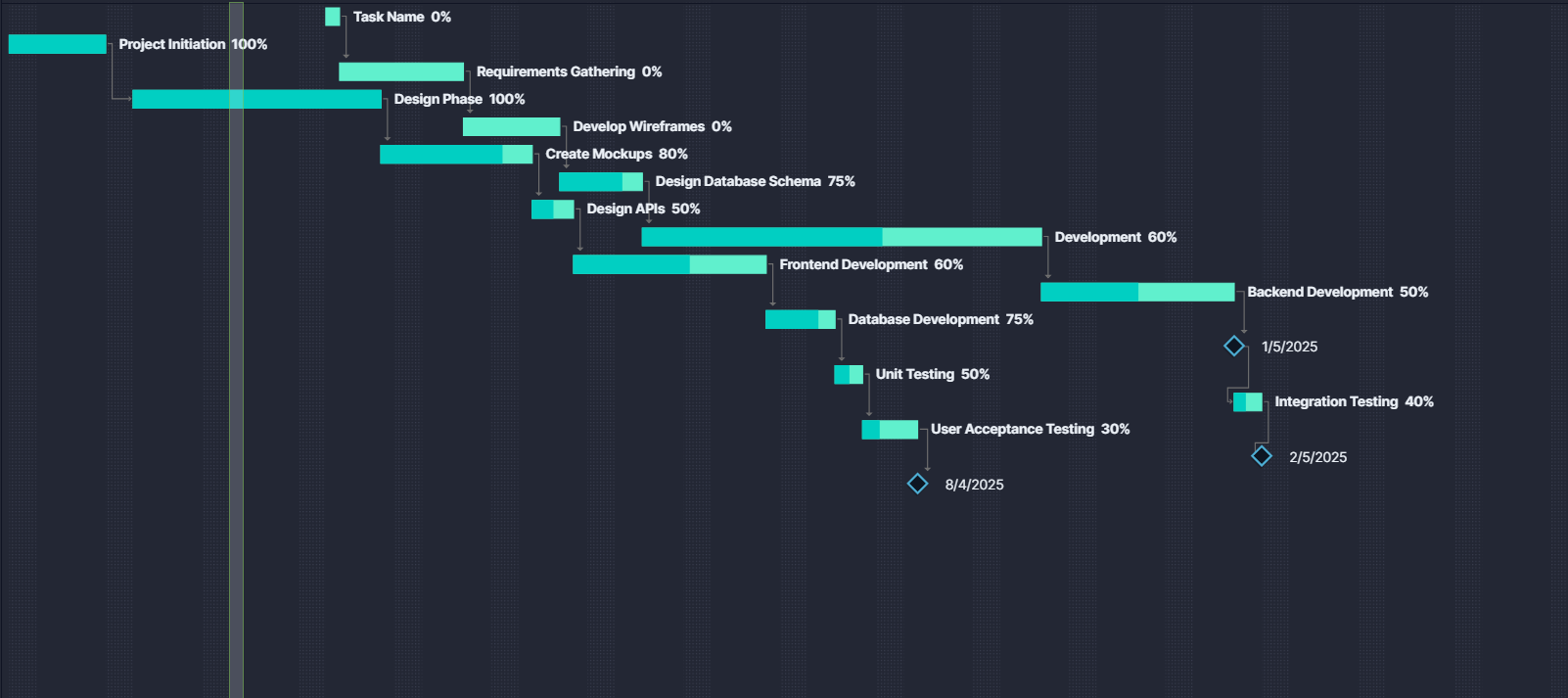
****

WBS: Work Breakdown Structure

## 8.1 Work Breakdown Structure (WBS)

## 

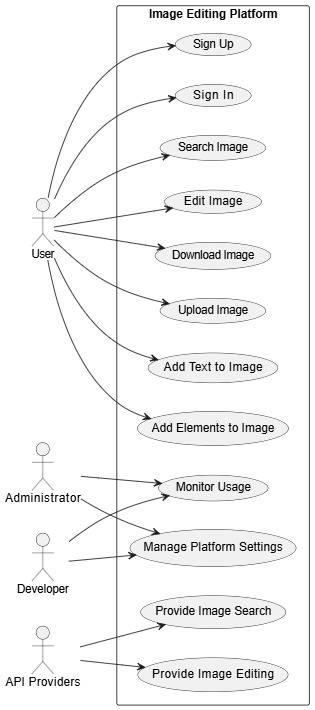
## 8.2 Gantt-Chart for Work Breakdown Structure (WBS)

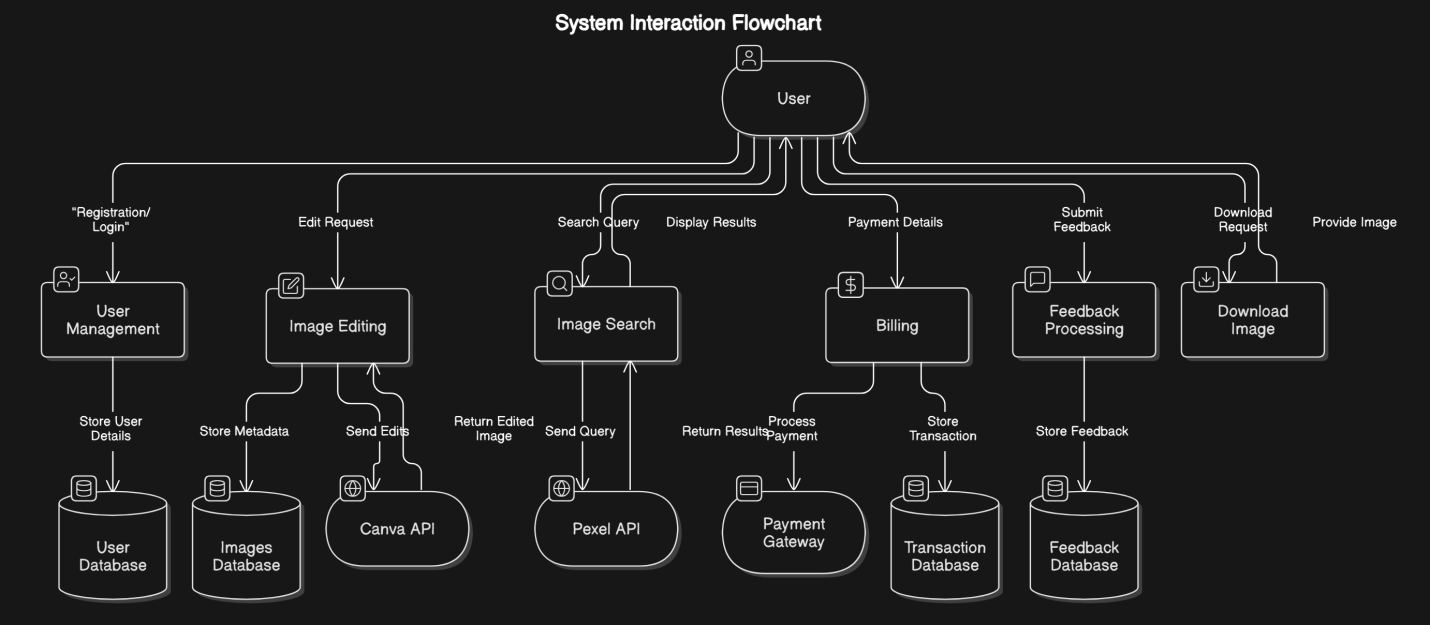


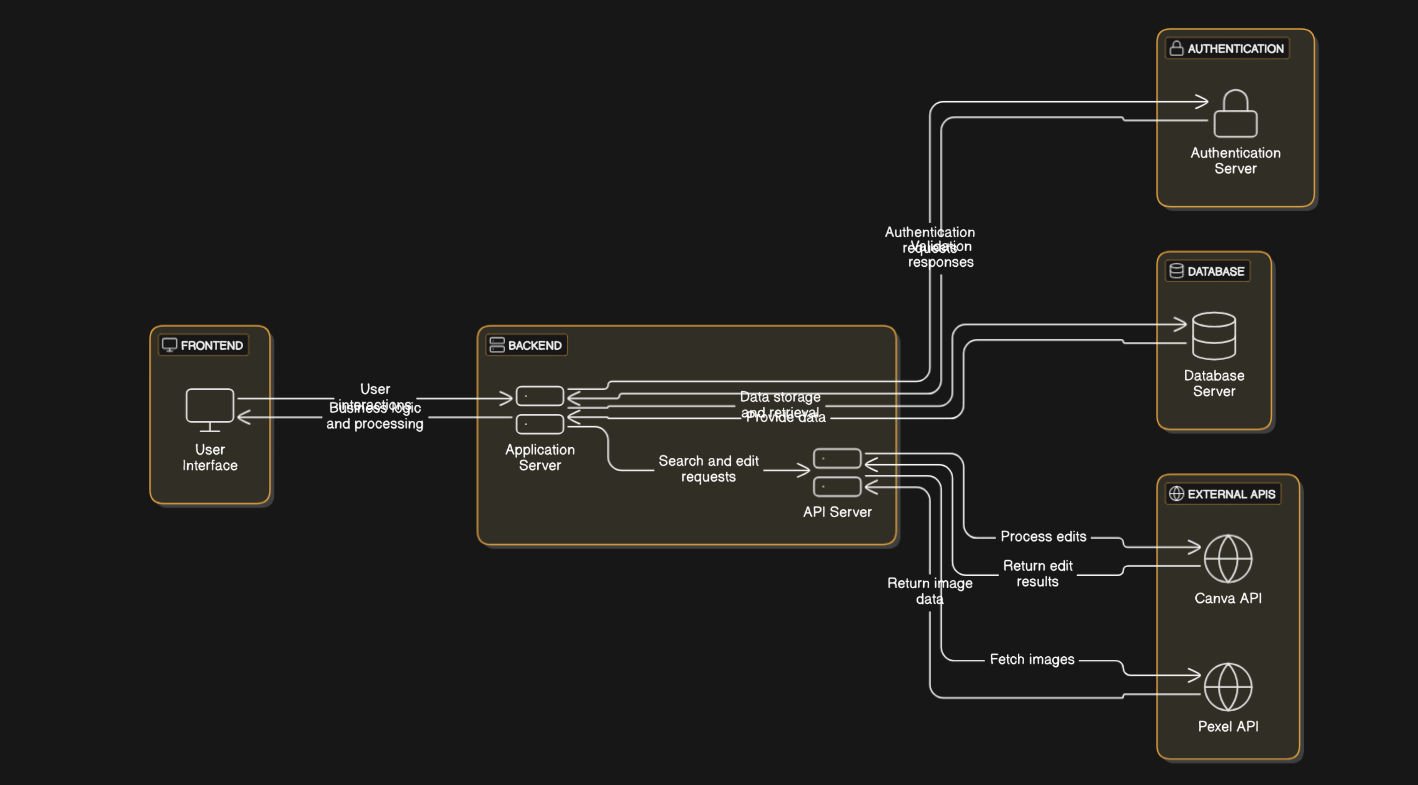
## 8.3 Critical Path:

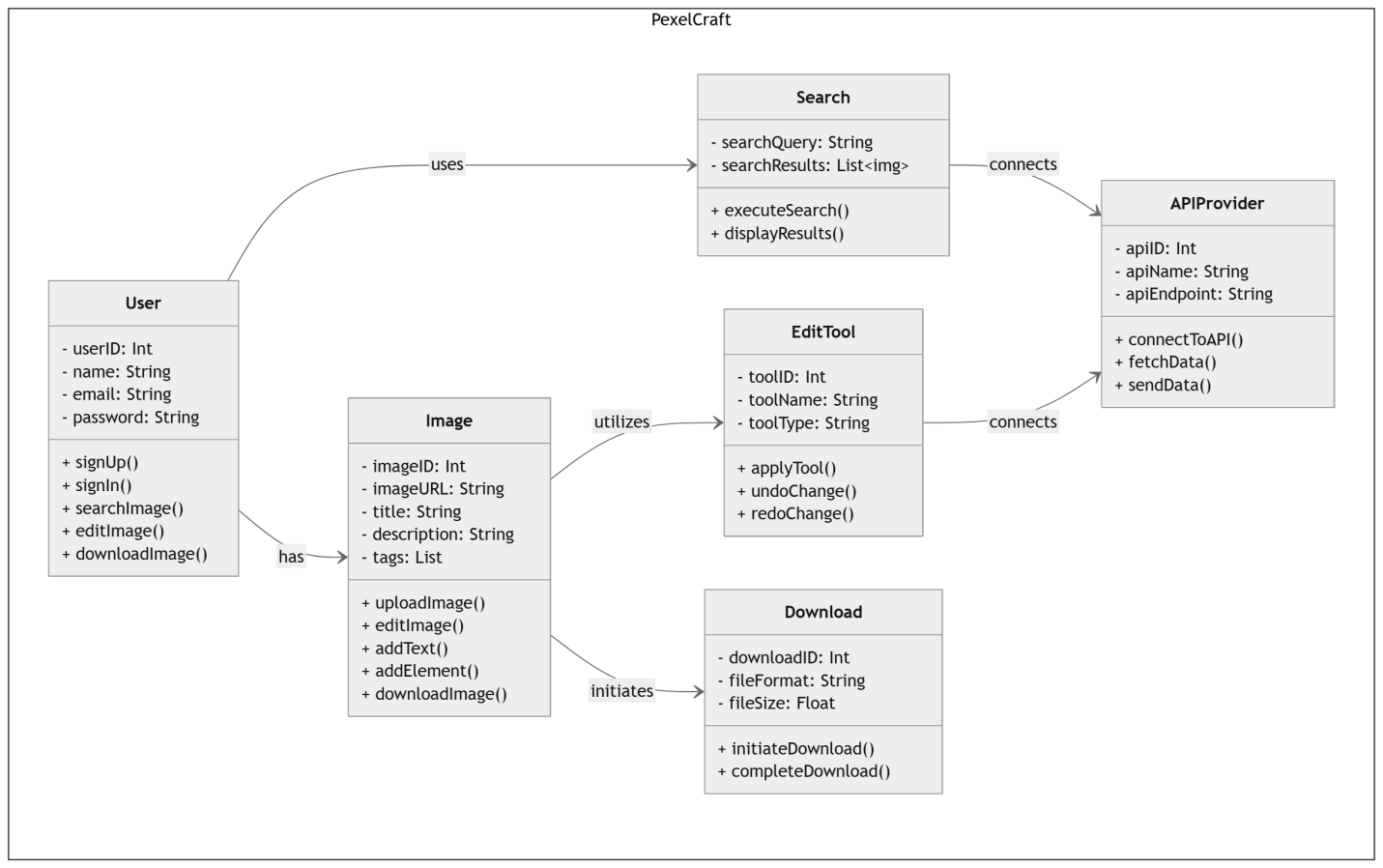
## 

## ****3. Table of Figures****









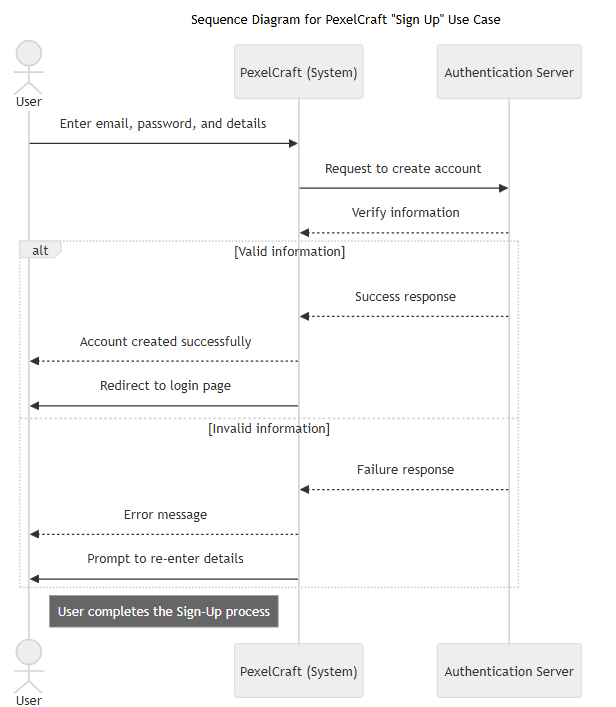
****

Figure 5.3: SIGnUP

**Sequence diagram: 2**

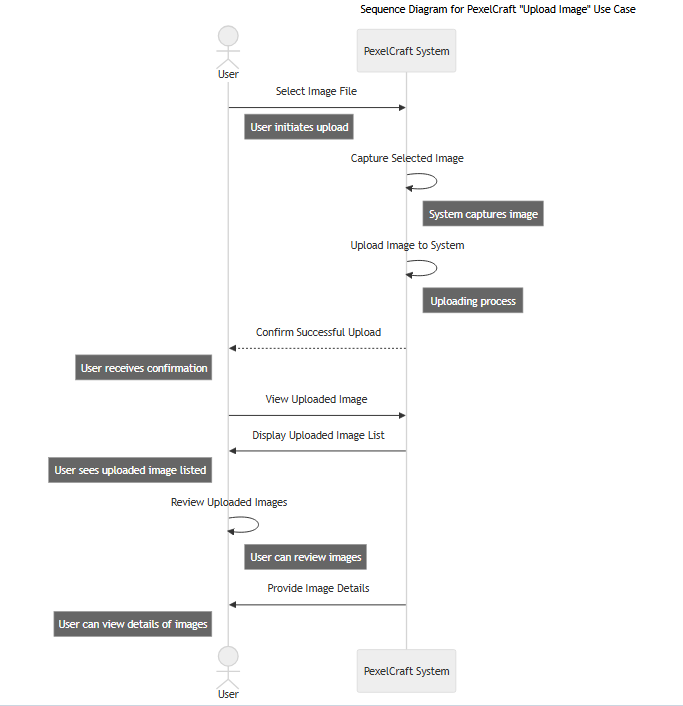


Figure 5.4UPLOAD IMAGE

**Sequence diagram: 3**

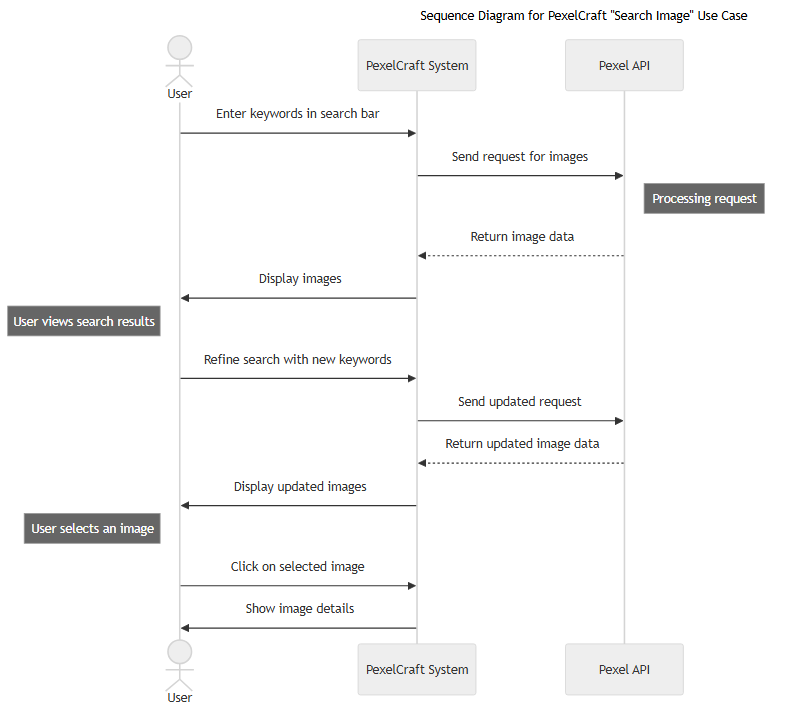
****

Figure 5.5: Search Image

**Sequence diagram: 4**

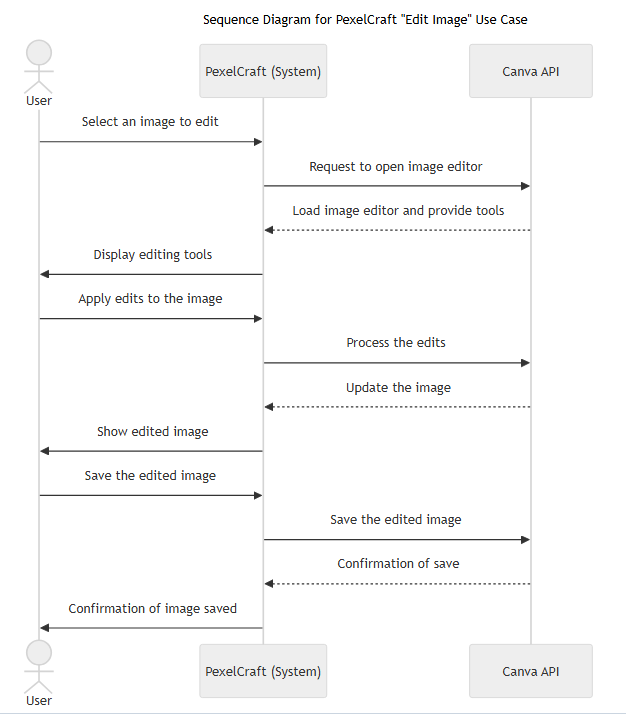
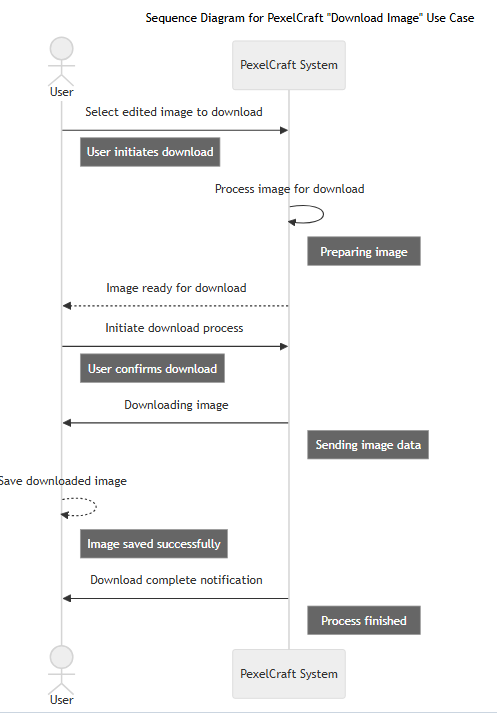


Figure 5.6: Edit Image

**Sequence diagram: 5**

****

DOWNLOAD IMAGE

**4. List of Tables**

* Table 2: List of Stakeholders

|  |  |
| --- | --- |
| ***Stakeholder*** | ***Role in System*** |
| Project Manager | Oversees the development and ensures project milestones are met. |
| Developers | Implement the functionalities and maintain the platform. |
| Users | Utilize the platform for searching and editing images. |
| API Providers | Supply the image search (Pexel API) and editing (Canva API) capabilities. |

## List of Actors

|  |  |
| --- | --- |
| **Actors** | **Description** |
| Administrator | Oversees platform management and user support. |
| User | Searches for and edits images using the platform. |
| API Providers | Pexel API and Canva API providers. |
| Developer | Implements and maintains the platform. |

Feature Comparison

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *No.* | *Comparison Feature* | Picsart | Canva | Pixlr | Photoscape | Snapseed | PexelCraft |
| *1* | Image Search | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG |
| *2* | Basic Editing Tools | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG |
| *3* | Advanced Editing Tools | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.comDownload Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG |
| *4* | Customizable Templates | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG |
| 5 | API Integration | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG |
| *6* | Real-time Collaboration | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com |
| *7* | Mobile Compatibility | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Download Cross Comments - Black Cross Png PNG Image with No Background -  PNGkey.com | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG |
| *8* | User-Friendly Interface | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG | Checkmark PNG, Checkmark Transparent Background - FreeIconsPNG |

|  |  |
| --- | --- |
| **Test Case ID: 1** | **Test Design By: Aadam** |
| **Test Module Name**: Login | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test login functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the login button will provide login functionality. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
|  |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the form with credentials | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Click on login Button | - | Pop-up shows "Login successful" | The user logged in successfully | Pass | - |

**Post-Condition**: User will be logged into their account.

**Table 7.2: Test Case (Search)**

Shows the search use case: Description: User searches for images using keywords.

|  |  |
| --- | --- |
| **Test Case ID: 2** | **Test Design By: Aadam** |
| **Test Module Name**: Search | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test search functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the search button provides search results. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |
|  | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** | | 1 | Open the website | - | - | - | Pass | - | | 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - | | 3 | Click on search bar | Keywords: "nature" | Display search results | Search results displayed | Pass | - | |

**Post-Condition**: User will see the search results.

**Table 7.3: Test Case (Edit Image)**

Shows the image editing use case: Description: User edits an image using provided tools.

|  |  |
| --- | --- |
| **Test Case ID: 3** | **Test Design By: Aadam** |
| **Test Module Name**: Edit Image | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test image editing functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the image editing tools work correctly. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Select image to edit | - | Image is loaded into editor | Image loaded successfully | Pass | - |
| 4 | Apply edits | Add text: "Hello" | Text added to image | Text added successfully | Pass | - |

**Post-Condition**: User will see the edited image.

**Table 7.4: Test Case (Download Image)**

Shows the image download use case: Description: User downloads an edited image.

|  |  |
| --- | --- |
| **Test Case ID: 4** | **Test Design By: Aadam** |
| **Test Module Name**: Download Image | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test image download functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the image download button works correctly. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Select edited image | - | Edited image is displayed | Edited image displayed | Pass | - |
| 4 | Click download button | - | Image download starts | Image downloaded successfully | Pass | - |

**Post-Condition**: User will have the image downloaded to their device.

**Table 7.5: Test Case (Upload Image)**

Shows the image upload use case: Description: User uploads an image to the system.

|  |  |
| --- | --- |
| **Test Case ID: 5** | **Test Design By: Aadam** |
| **Test Module Name**: Upload Image | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test image upload functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the image upload button works correctly. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Click upload button | Select image: "sample.jpg" | Image is uploaded | Image uploaded successfully | Pass | - |

**Post-Condition**: User will see the uploaded image listed.

**7.2 Decision Table**

**7.2.1 Decision Coverage Table (Login)**

**Table 7.6: Decision coverage table (Login)**

This table describes the conditions of each test case for the login screen.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** | **Rule 3** | **Rule 4** |
| Correct User ID | T | T | F | F |
| Correct Password | T | F | T | F |
| **Actions** |  |  |  |  |
| Successful Login | ✓ |  |  |  |
| Invalid User ID or Password |  | ✓ | ✓ |  |
| Unsuccessful Login |  |  |  | ✓ |

**7.2.2 Decision Coverage Table (Search)**

**Table 7.7: Decision coverage table (Search)**

This table describes the conditions of each test case for the search screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Find search bar Completely filled | T | F |
| **Actions** |  |  |
| Search should find Successfully | ✓ |  |
| Information Missing |  | ✓ |
| Search result Unsuccessful |  | ✓ |

**7.2.3 Decision Coverage Table (Edit Image)**

**Table 7.8: Decision coverage table (Edit Image)**

This table describes the conditions of each test case for the image editing screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Image selected for editing | T | F |
| **Actions** |  |  |
| Edit successful | ✓ |  |
| Information Missing |  | ✓ |
| Edit Unsuccessful |  | ✓ |

**7.2.4 Decision Coverage Table (Download Image)**

**Table 7.9: Decision coverage table (Download Image)**

This table describes the conditions of each test case for the image download screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Image selected for download | T | F |
| **Actions** |  |  |
| Download successful | ✓ |  |
| Information Missing |  | ✓ |
| Download Unsuccessful |  | ✓ |

**7.2.5 Decision Coverage Table (Upload Image)**

**Table 7.10: Decision coverage table (Upload Image)**

This table describes the conditions of each test case for the image upload screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Image file selected for upload | T | F |
| **Actions** |  |  |
| Upload successful | ✓ |  |
| Information Missing |  | ✓ |
| Upload Unsuccessful |  | ✓ |

|  |  |
| --- | --- |
| **Test Case ID: 1** | **Test Design By: Aadam** |
| **Test Module Name**: Login | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test login functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the login button will provide login functionality. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
|  |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the form with credentials | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Click on login Button | - | Pop-up shows "Login successful" | The user logged in successfully | Pass | - |

**Post-Condition**: User will be logged into their account.

**Table 7.2: Test Case (Search)**

Shows the search use case: Description: User searches for images using keywords.

|  |  |
| --- | --- |
| **Test Case ID: 2** | **Test Design By: Aadam** |
| **Test Module Name**: Search | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test search functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the search button provides search results. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |
|  | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** | | 1 | Open the website | - | - | - | Pass | - | | 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - | | 3 | Click on search bar | Keywords: "nature" | Display search results | Search results displayed | Pass | - | |

**Post-Condition**: User will see the search results.

**Table 7.3: Test Case (Edit Image)**

Shows the image editing use case: Description: User edits an image using provided tools.

|  |  |
| --- | --- |
| **Test Case ID: 3** | **Test Design By: Aadam** |
| **Test Module Name**: Edit Image | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test image editing functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the image editing tools work correctly. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Select image to edit | - | Image is loaded into editor | Image loaded successfully | Pass | - |
| 4 | Apply edits | Add text: "Hello" | Text added to image | Text added successfully | Pass | - |

**Post-Condition**: User will see the edited image.

**Table 7.4: Test Case (Download Image)**

Shows the image download use case: Description: User downloads an edited image.

|  |  |
| --- | --- |
| **Test Case ID: 4** | **Test Design By: Aadam** |
| **Test Module Name**: Download Image | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test image download functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the image download button works correctly. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Select edited image | - | Edited image is displayed | Edited image displayed | Pass | - |
| 4 | Click download button | - | Image download starts | Image downloaded successfully | Pass | - |

**Post-Condition**: User will have the image downloaded to their device.

**Table 7.5: Test Case (Upload Image)**

Shows the image upload use case: Description: User uploads an image to the system.

|  |  |
| --- | --- |
| **Test Case ID: 5** | **Test Design By: Aadam** |
| **Test Module Name**: Upload Image | **Test Design Date**: 1/2/2025 |
| **Test Priority**: High | **Test Executed By**: SAHRA |
| **Test Title/Name**: To test image upload functionality | **Test Executed Date**: 1/2/2025 |
| **Description**: To test that the image upload button works correctly. |  |
| **Pre-Condition**: |  |
| 1. User should have a registered account |  |
| 2. Internet access should be available |  |
| **Dependencies**: None |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Step** | **Test Data** | **Expected Result** | **Actual Result** | **Status (Pass/Fail)** | **Notes** |
| 1 | Open the website | - | - | - | Pass | - |
| 2 | Fill the login form | Email: user@example.com<br>Password: \*\*\*\* | - | - | - | - |
| 3 | Click upload button | Select image: "sample.jpg" | Image is uploaded | Image uploaded successfully | Pass | - |

**Post-Condition**: User will see the uploaded image listed.

**7.2 Decision Table**

**7.2.1 Decision Coverage Table (Login)**

**Table 7.6: Decision coverage table (Login)**

This table describes the conditions of each test case for the login screen.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** | **Rule 3** | **Rule 4** |
| Correct User ID | T | T | F | F |
| Correct Password | T | F | T | F |
| **Actions** |  |  |  |  |
| Successful Login | ✓ |  |  |  |
| Invalid User ID or Password |  | ✓ | ✓ |  |
| Unsuccessful Login |  |  |  | ✓ |

**7.2.2 Decision Coverage Table (Search)**

**Table 7.7: Decision coverage table (Search)**

This table describes the conditions of each test case for the search screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Find search bar Completely filled | T | F |
| **Actions** |  |  |
| Search should find Successfully | ✓ |  |
| Information Missing |  | ✓ |
| Search result Unsuccessful |  | ✓ |

**7.2.3 Decision Coverage Table (Edit Image)**

**Table 7.8: Decision coverage table (Edit Image)**

This table describes the conditions of each test case for the image editing screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Image selected for editing | T | F |
| **Actions** |  |  |
| Edit successful | ✓ |  |
| Information Missing |  | ✓ |
| Edit Unsuccessful |  | ✓ |

**7.2.4 Decision Coverage Table (Download Image)**

**Table 7.9: Decision coverage table (Download Image)**

This table describes the conditions of each test case for the image download screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Image selected for download | T | F |
| **Actions** |  |  |
| Download successful | ✓ |  |
| Information Missing |  | ✓ |
| Download Unsuccessful |  | ✓ |

**7.2.5 Decision Coverage Table (Upload Image)**

**Table 7.10: Decision coverage table (Upload Image)**

This table describes the conditions of each test case for the image upload screen.

|  |  |  |
| --- | --- | --- |
| **Conditions** | **Rule 1** | **Rule 2** |
| Image file selected for upload | T | F |
| **Actions** |  |  |
| Upload successful | ✓ |  |
| Information Missing |  | ✓ |
| Upload Unsuccessful |  | ✓ |