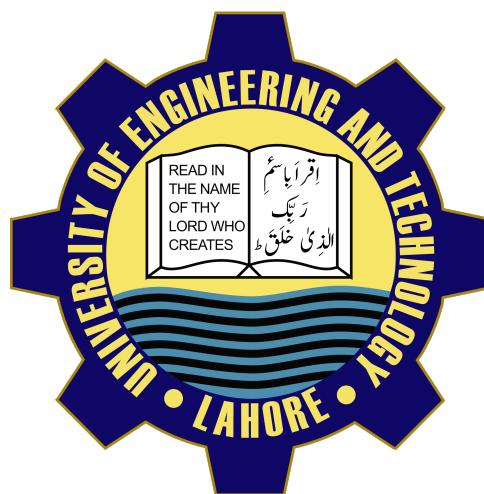


Grapes: NLP Web Craft

Design Document



Session: 2021-2025

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Chapter 1

Requirement Specification

1.1 REQUIREMENT SPECIFICATION

1.1.1 Functional Requirements

In developing a robust NLP Web Craft system, a comprehensive set of functional requirements has been defined. The functional requirements are grouped into four categories: Business requirements, administrative requirements, user requirements, and service requirements. Each category is assigned a unique identifier, such as B for business, A for administrative, U for user, and S for service requirements. The requirements are then numbered within each category, starting with 01.

The following list describes the main functions the system will perform:

- **FR-B-01:** The system shall provide web development business services aimed at individuals and small businesses.
- **FR-B-02:** The system shall target businesses looking for quick and efficient website solutions.
- **FR-B-03:** The system shall cater to content creators seeking to establish their online presence through customizable websites.
- **FR-B-04:** The system shall provide value-added services to enhance user experience, such as SEO optimization.

- **FR-B-05:** The system shall create business opportunities through affiliate marketing and partnerships with template providers.
- **FR-B-06:** The system shall offer subscription-based services for users seeking premium templates and advanced features.
- **FR-A-01:** The system shall enable and disable admin access for managing user accounts and roles.
- **FR-A-02:** The system shall allow admins to manage user roles and permissions, ensuring proper access control for different services.
- **FR-A-03:** The system shall share login IDs and new passwords with admins as needed for account recovery.
- **FR-A-04:** The system shall enable admins to view user activity logs to monitor interactions with the chatbot and website creation services.
- **FR-U-01:** The system shall provide a chatbot that interacts with users, asking questions about the type of website they want (e-commerce, blog, portfolio) to facilitate web development services.
- **FR-U-02:** The chatbot shall understand the user's responses and create a website plan based on their input, guiding them in content management and design services.
- **FR-U-03:** The system shall offer ready-to-use templates for different types of websites, including e-commerce, blogs, and portfolios, enhancing the template design services.
- **FR-U-04:** Users shall have the ability to customize design elements such as headers, footers, and color schemes for their websites, utilizing user experience (UX) services.
- **FR-U-05:** After editing, users shall be able to download their websites as a ZIP file containing all the HTML, CSS, and JS files, providing interoperability and export functionality.
- **FR-U-06:** The downloaded website files shall be fully editable by users for future modifications, ensuring ongoing user support and technical assistance.

- **FR-S-01:** The system shall provide a chatbot service to gather user requirements and preferences for website creation.
- **FR-S-02:** The system shall offer template design services, allowing users to select from various pre-built website templates.
- **FR-S-03:** The system shall facilitate customization services, enabling users to modify design elements of their websites.
- **FR-S-04:** The system shall support content management services, allowing users to organize and manage their website content effectively.
- **FR-S-05:** The system shall enable downloading services for users to export their website files as editable ZIP files.
- **FR-S-06:** The system shall provide ongoing technical support services for users to assist with any issues related to their websites.

1.1.2 Non-functional Requirements

In developing the NLP Web Craft system, we aim to create a robust and user-friendly platform that empowers users to effortlessly build and customize their websites using advanced natural language processing technologies. The project is designed to simplify the web development process for individuals and businesses, making it accessible even to those without technical expertise. By integrating a chatbot interface and ready-to-use templates, users can quickly generate website plans and customize design elements, ultimately enhancing their online presence.

To ensure the system meets the needs of diverse users, we've defined a comprehensive set of non-functional requirements. These requirements focus on various aspects of the system's performance, usability, reliability, and scalability. Each requirement has been categorized and assigned a unique identifier for easy reference.

- **NFR-U-01:** The interface must be simple and intuitive for non-technical users.
- **NFR-U-02:** Users must be able to preview their websites in real-time while editing.
- **NFR-U-03:** The system must be mobile-friendly for easy use across all devices.

- **NFR-U-04:** Users must have the ability to undo/redo changes during website editing.
- **NFR-R-01:** The system must handle temporary internet disruptions gracefully.
- **NFR-R-02:** The system must gradually degrade without failure under heavy load.
- **NFR-S-01:** The system must accommodate increases in data storage without performance degradation.
- **NFR-S-02:** The system must support new features without requiring significant rewrites.
- **NFR-S-03:** Specific components of the system must scale independently (e.g., the chatbot or API).
- **NFR-S-04:** New templates and design elements must be easy to add over time.
- **NFR-P-01:** The system must respond to user requests within 2 seconds.
- **NFR-P-02:** API data searches must complete in 1 second or less.
- **NFR-P-03:** Templates and previews must be updated in real-time during editing.
- **NFR-P-04:** The system must function smoothly on low-bandwidth connections.

1.1.3 Use Case Diagram

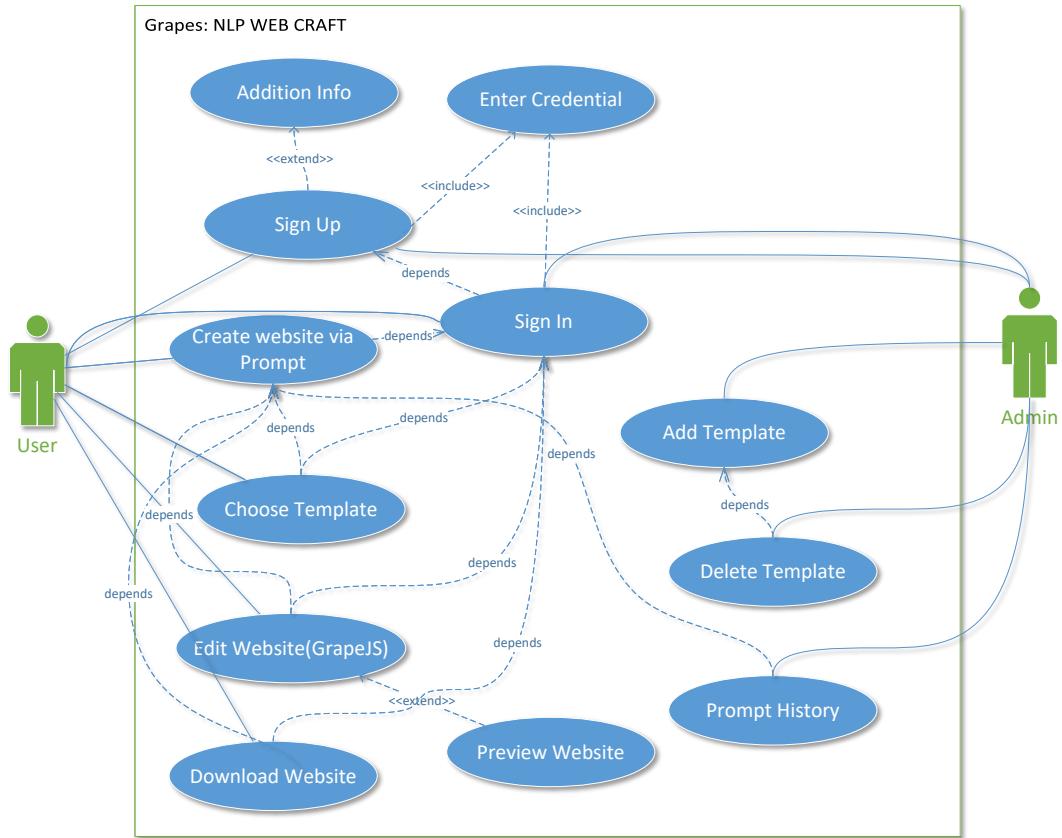


Figure 1.1: Use Case Diagram

Use Case Name	User Sign-Up for NLP Web Craft
Primary Actor	User
Trigger	When the "Create Account" button is pressed to register a new user.
Goal	Successfully create a user account to use the chatbot and website-building tools.
Precondition	The user is not already registered in the system.
Postcondition	User successfully creates an account and gains access to the system features.
Basic Flow	<ul style="list-style-type: none"> • User opens the NLP Web Craft platform. • User navigates to the "Sign-Up" subsection. • System prompts for user details (name, email, password). • User enters the required information. • System validates the information (e.g., email, password strength). • If valid, the system creates a new user account.
Alternate Flow	N/A
Quality Requirements	<ul style="list-style-type: none"> • All Users input must be validated (e.g., email format, password strength) • Passwords must be securely hashed and stored
Exception	<ul style="list-style-type: none"> • Invalid Email Format: Prompt for re-entry. • Weak Password: Display missing requirements

Table 1.1: Use Case for User Sign-Up in NLP Web Craft

Use Case Name	Admin Sign-Up
Primary Actor	Admin
Trigger	When the "Sign Up" button is pressed to create a new admin account.
Goal	Successfully create a new admin account for accessing and managing the system.
Precondition	The administrator is not already registered in the system.
Postcondition	The administrator successfully creates an admin account and gains access to the administrative features of the application.
Basic Flow	<ul style="list-style-type: none"> • The administrator opens the car showroom application. • The administrator navigates to the "Admin Sign-Up" subsection. • The system prompts the administrator to provide necessary information (username, email, password, and contact details). • The administrator enters the required information. • The system validates the entered information (e.g., checks for valid email format, password strength). • If the information is valid, the system creates a new admin account.
Alternate Flow	N/A
Quality	<ul style="list-style-type: none"> • All Admin input must be validated (e.g., email format, password strength) • Passwords must be securely hashed and stored
Exception	<ul style="list-style-type: none"> • Invalid Email Format: Prompt for re-entry. • Weak Password: Display missing requirements

Table 1.2: Use Case for Admin Sign-Up

Use Case Name	User Sign-In for NLP Web Craft
Primary Actor	User
Trigger	When the "Log In" button is pressed to access the User dashboard.
Goal	Successfully create a user account to use the chatbot and website-building tools.
Precondition	The user is not already registered in the system.
Postcondition	User successfully creates an account and gains access to the system features.
Basic Flow	<ul style="list-style-type: none">• User opens the NLP Web Craft platform.• User navigates to the "Sign-Up" section.• System prompts for user details (name, email, password).• User enters the required information.• System validates the information (e.g., email, password strength).• If valid, the system creates a new user account.
Alternate Flow	N/A
Quality	<ul style="list-style-type: none">• Error messages should be displayed if login fails.• The sign-in page should load quickly and work on various devices (desktop, mobile, tablet)
Exception	<ul style="list-style-type: none">• Invalid Credentials: Prompt the user to re-enter correct credentials• Email Not Verified: Prompt the user to verify their email before logging in.

Table 1.3: Use Case: User Sign-In for NLP Web Craft

Use Case Name	Admin Sign-In
Primary Actor	Admin
Trigger	When the "Log In" button is pressed to access the admin dashboard.
Goal	Successfully log in to the admin account to manage the application.
Precondition	The administrator has a registered admin account.
Postcondition	The administrator is logged into the system and can access administrative features.
Basic Flow	<ul style="list-style-type: none">• The administrator navigates to the "Admin Sign-In" section.• The system prompts the administrator to enter their username and password.• The administrator enters the required login credentials.• The system validates the credentials against the database.• If the credentials are valid, the system grants access and redirects the administrator to the admin dashboard.
Alternate Flow	N/A
Quality	<ul style="list-style-type: none">• Error messages should be displayed if login fails.• The sign-in page should load quickly and work on various devices (desktop, mobile, tablet)
Exception	<ul style="list-style-type: none">• Invalid Credentials: Prompt the user to re-enter correct credentials• Email Not Verified: Prompt the user to verify their email before logging in.

Table 1.4: Use Case for Admin Sign-In

Use Case Name	Create Website Via Prompt
Primary Actor	User
Trigger	When the "Create Website" button is pressed after selecting a type and writing a prompt.
Goal	Successfully create a website based on the user's prompt and selected type.
Precondition	The user is logged in to the system.
Postcondition	The website is created based on the user's specifications and is accessible for further editing.
Basic Flow	<ul style="list-style-type: none"> • The system presents three options for website types: E-commerce, Blog, and Portfolio. • The system prompts the user to enter a description or prompt for the website. • The user writes and submits the prompt.
Alternate Flow	N/A
Quality	<ul style="list-style-type: none"> • The website should be allowing users to easily follow prompts and generate websites. • The system should handle multiple website creation requests simultaneously.
Exception	<ul style="list-style-type: none"> • Invalid Prompt: Prompt the user to provide more specific details • Session Timeout: User needs to re-login to continue

Table 1.5: Use Case for Create Website Via Prompt

Use Case Name	Choose Template Theme
Primary Actor	User
Trigger	When the "Select Template" button is pressed to choose a template for the website.
Goal	Successfully choose a template that fits the user's needs.
Precondition	The user has created a website and is ready to choose a template.
Postcondition	The user successfully selects a template, and the website is updated accordingly.
Basic Flow	<ul style="list-style-type: none"> • The user opens the template selection section of the NLP Web Craft platform. • The system presents a gallery of available templates. • The user browses through the templates and selects one. • The system updates the website with the selected template.
Alternate Flow	N/A
Quality	<ul style="list-style-type: none"> • The interface must be simple and intuitive • Users should be able to preview templates before final selection
Exception	<ul style="list-style-type: none"> • Template Loading Error: Inform the user about the loading error • Invalid Template Selection: Inform the user that the selected template is not valid

Table 1.6: Use Case for Choose Template

Use Case Name	Customize Website
Primary Actor	User
Trigger	When the "Edit" button is pressed after selecting a website template.
Goal	Successfully customize the website according to user preferences.
Precondition	The user has selected a template for the website.
Postcondition	The website is customized according to user preferences and is saved for future access.
Basic Flow	<ul style="list-style-type: none"> • The user navigates to the website dashboard. • The user selects the website they wish to edit. • The system opens the GrapeJS editor for the selected website. • The user customizes the website using the editing tools available in GrapeJS. • The user saves the changes made to the website.
Alternate Flow	N/A
Quality Requirements	<ul style="list-style-type: none"> • Must be available 24/7 to ensure continuous service. • Must be responsive and work across all devices and screen sizes
Exception	<ul style="list-style-type: none"> • Connection error: User should check the internet connection and retry. • Customization failed: User must refresh the browser and try the customization again

Table 1.7: Use Case for Customize Website

Use Case Name	Edit Website Using GrapeJS
Primary Actor	User
Trigger	When the "Edit" button is pressed to open the GrapeJS editor for customization.
Goal	Successfully modify and customize the website using GrapeJS editor.
Precondition	The user has selected a template for their website.
Postcondition	The changes made to the website are saved, and the user can preview the updated website.
Basic Flow	<ul style="list-style-type: none"> • The user navigates to the "Edit Website" section using GrapeJS. • The system loads the selected template into the GrapeJS editor. • The user interacts with the GrapeJS interface to modify elements (text, images, layout). • The user can add, remove, or rearrange components within the website.
Alternate Flow	N/A
Quality	<ul style="list-style-type: none"> • Users should see real-time updates as they make changes to their website. • The system must allow users to undo or redo their last actions during customization.
Exception	<ul style="list-style-type: none"> • Invalid Input: Show an error message prompting the user to enter valid data. • Editor Load Failure: Notify the user and suggest trying again later.

Table 1.8: Use Case: Edit Website Using GrapeJS

Use Case Name	Download Website
Primary Actor	User
Trigger	When the "Download" button is pressed to download the completed website files.
Goal	Successfully download the website files in a zip format.
Precondition	The user has edited and finalized their website using the GrapeJS editor.
Postcondition	The website files are downloaded to the user's device.
Basic Flow	<ul style="list-style-type: none"> • The user navigates to the "Download Website" section. • The system presents an option to download the completed website. • The user clicks the "Download" button. • The system compiles the website files (HTML, CSS, JavaScript, assets) into a zip file. • The system prompts the user to save the zip file to their device.
Alternate Flow	N/A
Quality	<ul style="list-style-type: none"> • Must ensure that the downloaded zip file is not corrupted. • Make sure that all necessary files are included in the zip package.
Exception	<ul style="list-style-type: none"> • Download Location Not Set: Advise the user to configure their browser settings to specify a download location. • File Download failed: User needs to check the file format and size before uploading

Table 1.9: Use Case: Download Website

Use Case Name	Add Template
Primary Actor	Admin
Trigger	When the "Add Template" button is pressed to upload a new template.
Goal	Successfully add a new template to the system for user selection.
Precondition	The admin is logged into the system with appropriate privileges.
Postcondition	The new template is available for users to select when creating their websites.
Basic Flow	<ul style="list-style-type: none"> • The admin opens the NLP Web Craft platform. • The admin navigates to the "Add Template" section. • The system prompts the admin to upload the template files (HTML, CSS, JavaScript, assets). • The admin uploads the necessary files and enters relevant details (template name, description, category). • The system validates the uploaded files and details.
Alternate Flow	N/A
Quality	<ul style="list-style-type: none"> • Accept only .html, .css, .js, and .zip files. • Log upload errors for admin review.
Exception	<ul style="list-style-type: none"> • Template Already Exists: Prompt the admin to choose a different name for the new template. • Invalid File Format: Inform the admin to check the file types and re-upload valid formats.

Table 1.10: Use Case: Add Template

Use Case Name	Delete Template
Primary Actor	Admin
Trigger	When the "Delete" button is pressed to remove an existing template from the system.
Goal	Successfully delete a template from the system.
Precondition	The admin is logged into the system with appropriate privileges.
Postcondition	The selected template is removed from the system and is no longer available for user selection.
Basic Flow	<ul style="list-style-type: none"> • The admin navigates to the "Manage Templates" section. • The system displays a list of existing templates. • The admin selects the template they wish to delete. • The system prompts the admin to confirm the deletion.
Alternate Flow	N/A
Quality	<ul style="list-style-type: none"> • The system should be accessible 24/7. • The deletion process should complete quickly without noticeable delay.
Exception	<ul style="list-style-type: none"> • Deletion Failed: An unexpected error occurred; try again later. • Template in Use: The template cannot be deleted while it's being used by a website.

Table 1.11: Use Case: Delete Template

Use Case Name	View Prompt History
Primary Actor	Admin
Trigger	When the "View Prompt History" button is pressed to access the list of previous prompts.
Goal	Successfully access and view the history of prompts used in the system.
Precondition	The admin is logged into the system with appropriate privileges.
Postcondition	The admin can review the history of prompts and their usage.
Basic Flow	<ul style="list-style-type: none"> • The admin navigates to the "Prompt History" section. • The system displays a list of all previous prompts used in the system. • The admin can view details about each prompt (date, time, user who initiated, etc.).
Alternate Flow	N/A
Quality	<ul style="list-style-type: none"> • Interface should be intuitive for easy navigation. • The system should quickly retrieve and display prompt history.
Exception	<ul style="list-style-type: none"> • No Prompts Found: Show No previous prompts exist in the system. • Database Connection Error: retry by re loading Page.

Table 1.12: Use Case: View Prompt History

Chapter 2

Design Specification

2.1 USER INTERPHASE DESIGN

2.1.1 WireFrames

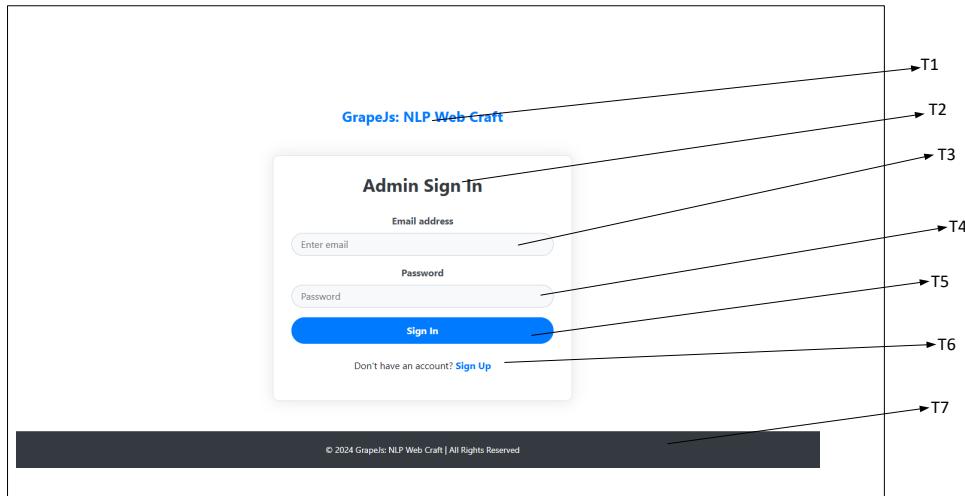


Figure 2.1: WireFrame: Sign In (Admin)

Element	Description
T1	As an admin, I shall view the logo.
T2	As an admin, I shall view the Sign in page.
T3	As an admin, I shall enter my email ID.
T4	As an admin, I shall enter my password.
T5	As an admin, I shall click on the Sign in button to jump on Dashboard.
T6	As an admin, I shall click on the Sign up link to jump on SignUp Page.
T7	As an admin, I shall view the "All rights reserved" label.

Table 2.1: WireFrame: Sign In (Admin)

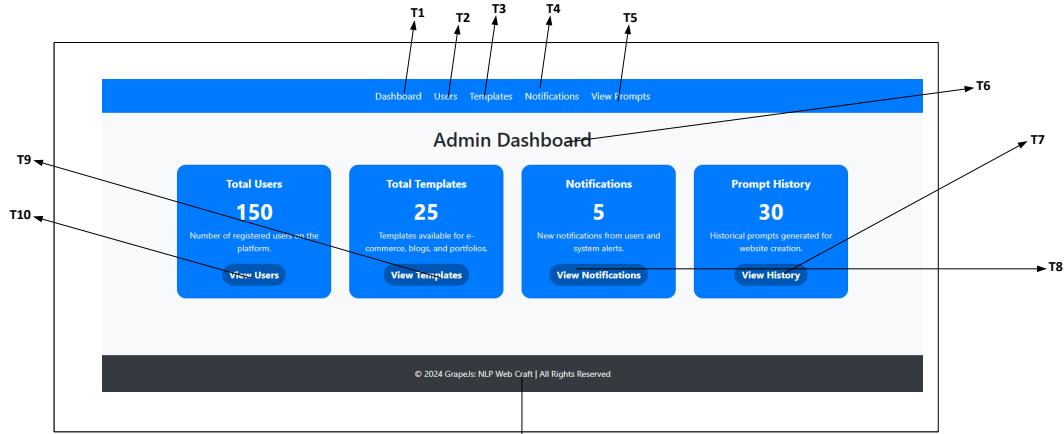


Figure 2.2: WireFrame: Dashboard (Admin)

Element	Description
T1	As an admin, I shall click on the dashboard link to jump on Dashboard.
T2	As an admin, I shall click on users link to jump on User Data page.
T3	As an admin, I shall click on templates link to jump on Manage Template Page.
T4	As an admin, I shall click on notifications link to jump on Notification Page.
T5	As an admin, I shall click on view Prompt link to jump on Prompt Page.
T6	As an admin, I shall view the admin Dashboard label.
T7	As an admin, I shall click on users button to jump on User Data page..
T8	As an admin, I shall click on View templates button to jump on Manage Template Page.
T9	As an admin, I shall click on notifications Button to jump on View Notification Page.
T10	As an admin, I shall click on view history button to jump on Prompt History Page.
T11	As an admin, I shall view the "All rights reserved" label.

Table 2.2: WireFrame: Dashboard (Admin)

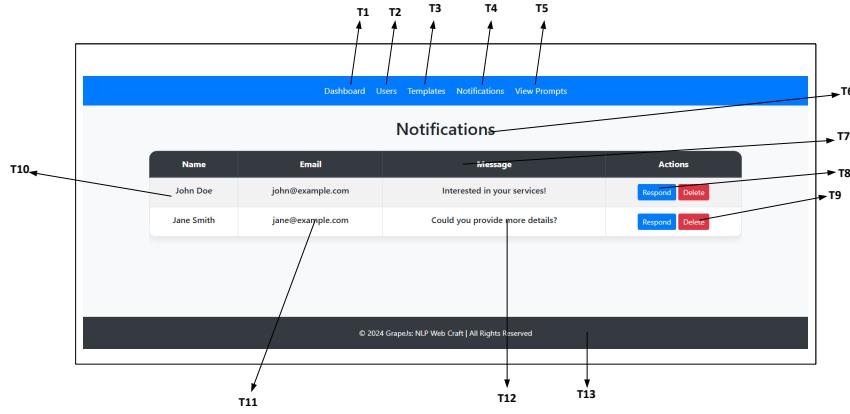


Figure 2.3: WireFrame: Notification (Admin)

Element	Description
T1	As an admin, I shall click on the dashboard link to jump on Dashboard.
T2	As an admin, I shall click on users link to jump on User Data page.
T3	As an admin, I shall click on templates link to jump on Manage Template Page.
T4	As an admin, I shall click on notifications link to jump on Notification Page.
T5	As an admin, I shall click on view Prompt link to jump on Prompt Page.
T6	As an admin, I shall view the "Notifications" label.
T7	As an admin, I shall view on the view user description row.
T8	As an admin, I shall click on the respond button to jump on response page.
T9	As an admin, I shall click on the delete button.
T10	As an admin, I shall view the user name.
T11	As an admin, I shall view the user email.
T12	As an admin, I shall view the user message.
T13	As an admin, I shall view the "All rights reserved" label.

Table 2.3: WireFrame: Notification (Admin)

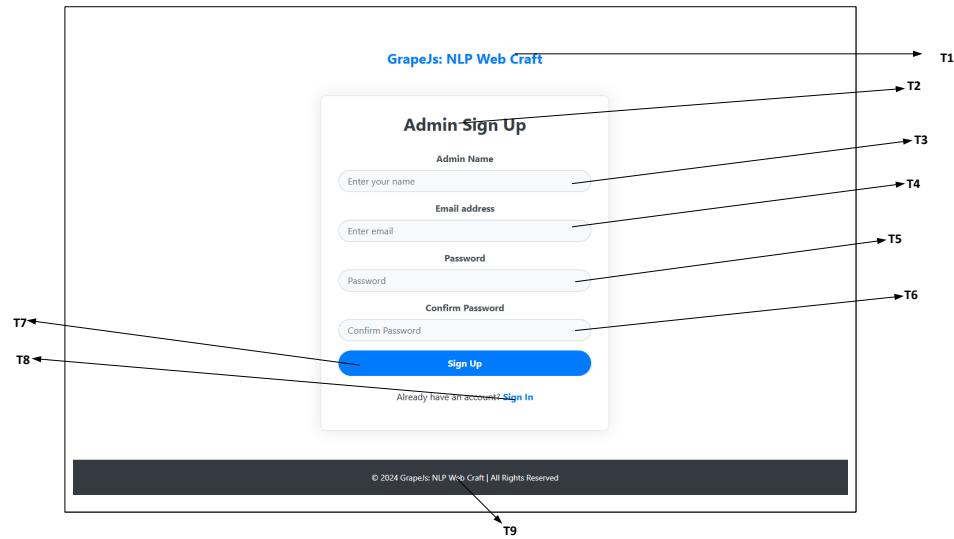


Figure 2.4: WireFrame: Sign In (Admin)

Element	Description
T1	As an admin, I shall view the GapseJS NLP Web Craft label.
T2	As an admin, I shall view the Sign Up page.
T3	As an admin, I shall enter my name.
T4	As an admin, I shall enter my email address.
T5	As an admin, I shall enter my password.
T6	As an admin, I shall enter my confirm password.
T7	As an admin, I shall click on the sign up button to jump on Sign In page.
T8	As an admin, I shall click on the sign in link to jump on Sign In page.
T9	As an admin, I shall view the "All rights reserved" label.

Table 2.4: WireFrame: Sign In (Admin)

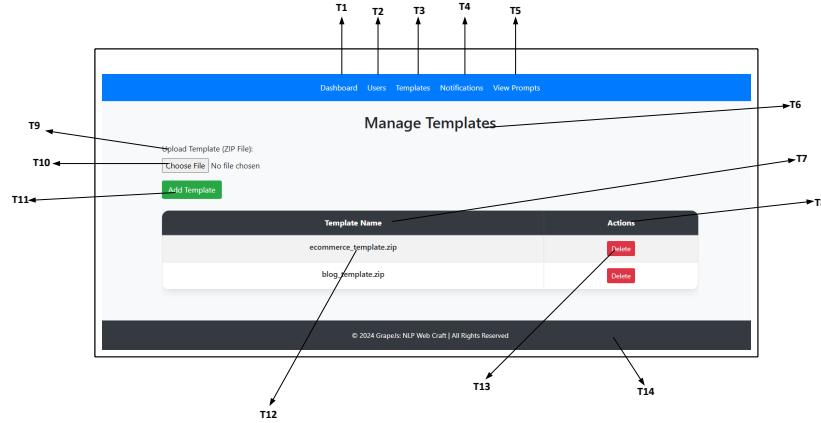


Figure 2.5: WireFrame: Manage Template (Admin)

Element	Description
T1	As an admin, I shall click on the dashboard link to jump on Dashboard.
T2	As an admin, I shall click on users link to jump on User Data page.
T3	As an admin, I shall click on templates link to jump on Manage Template Page.
T4	As an admin, I shall click on notifications link to jump on Notification Page.
T5	As an admin, I shall click on view Prompt link to jump on Prompt Page.
T6	As an admin, I shall view the "Manage templates" label.
T7	As an admin, I shall view the "Template name" label.
T8	As an admin, I shall view the "Action" label.
T9	As an admin, I shall view the "Upload template" label.
T10	As an admin, I shall click on the "Choose file" button to choose the file .
T11	As an admin, I shall click on the "Add template" button to add template.
T12	As an admin, I shall view the template name.
T13	As an admin, I shall click on the delete button to delete template.
T14	As an admin, I shall view the "All rights reserved" label.

Table 2.5: WireFrame: Manage Template (Admin)

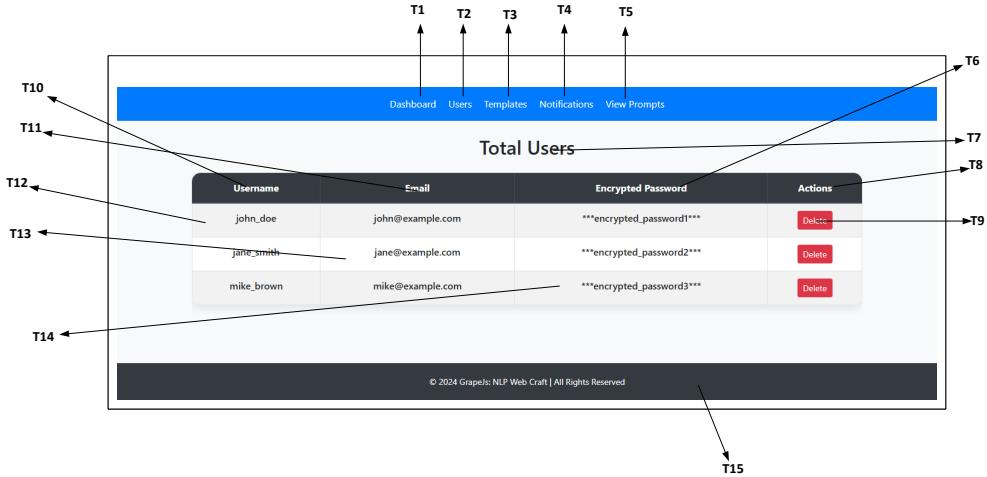


Figure 2.6: WireFrame: View Users (Admin)

Element	Description
T1	As an admin, I shall click on the dashboard link to jump on Dashboard.
T2	As an admin, I shall click on users link to jump on User Data page.
T3	As an admin, I shall click on templates link to jump on Manage Template Page.
T4	As an admin, I shall click on notifications link to jump on Notification Page.
T5	As an admin, I shall click on view Prompt link to jump on Prompt Page.
T6	As an admin, I shall view the "Encrypted password" label.
T7	As an admin, I shall view the "Total Users" label.
T8	As an admin, I shall view the "Action" label.
T9	As an admin, I shall click the delete button to delete user.
T10	As an admin, I shall view the "Username" label.
T11	As an admin, I shall view the "Email" label.
T12	As an admin, I shall view the username.
T13	As an admin, I shall view the email.
T14	As an admin, I shall view the encrypted password.
T15	As an admin, I shall view the "All rights reserved" label.

Table 2.6: WireFrame: Admin View Users

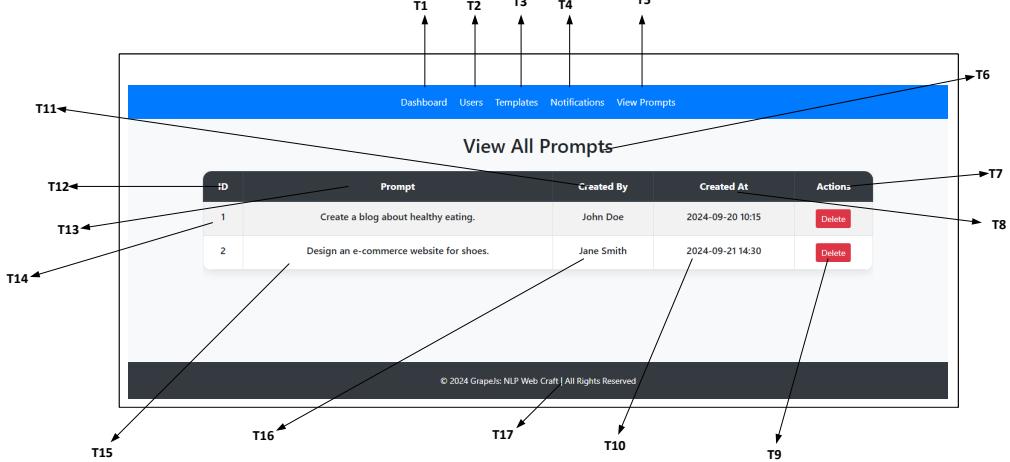


Figure 2.7: WireFrame: View Prompt (Admin)

Element	Description
T1	As an admin, I shall click on the dashboard.
T2	As an admin, I shall click on users.
T3	As an admin, I shall click on templates.
T4	As an admin, I shall click on notifications.
T5	As an admin, I shall click on view prompts.
T6	As an admin, I shall view the "All prompts" label.
T7	As an admin, I shall view the "Action" label.
T8	As an admin, I shall view the "Created At" label.
T9	As an admin, I shall click the delete button.
T10	As an admin, I shall view "Created At."
T11	As an admin, I shall view the "Created By" label.
T12	As an admin, I shall view the "ID" label.
T13	As an admin, I shall view the "Prompt" label.
T14	As an admin, I shall view the ID number.
T15	As an admin, I shall view the prompt.
T16	As an admin, I shall view the "Created By" name.
T17	As an admin, I shall view the "All rights reserved" label.

Table 2.7: WireFrame: View Prompt (Admin)

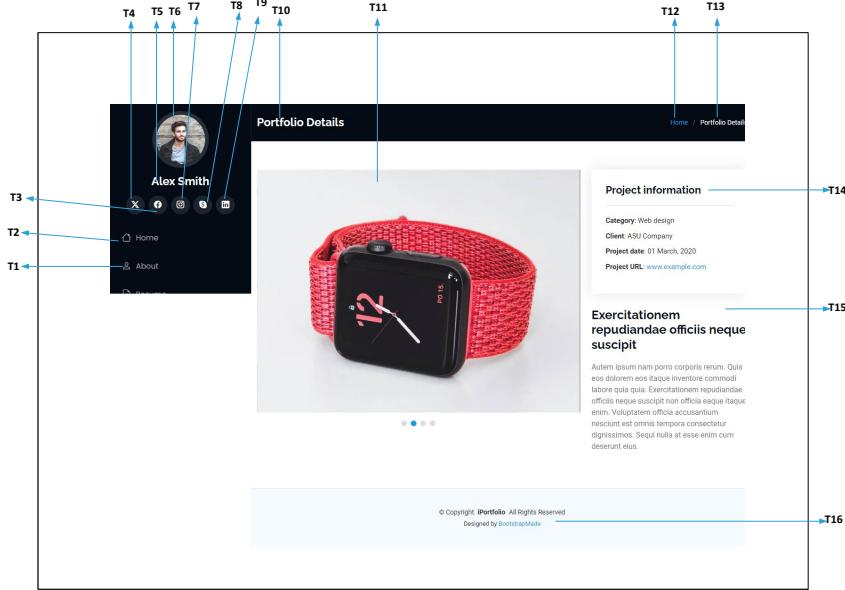


Figure 2.8: WireFrame: Portfolio Main Page (User)

Element	Description
T1	As a user I shall edit the About link.
T2	As a user I shall edit the Home link.
T3	As a user I shall edit the Facebook icon.
T4	As a user I shall edit the Twitter icon.
T5	As a user I shall edit the Name label.
T6	As a user I shall edit the Profile image.
T7	As a user I shall edit the Instagram icon.
T8	As a user I shall edit the Skype icon.
T9	As a user I shall edit the LinkedIn icon.
T10	As a user I shall edit the Portfolio Details label.
T11	As a user I shall edit the image.
T12	As a user I shall edit the Home link.
T13	As a user I shall edit the Portfolio Detail link.
T14	As a user I shall edit the Project information.
T15	As a user I shall edit the text.
T16	As a user I shall edit the Bootstrap Made link.

Table 2.8: WireFrame: Portfolio Main Page (User)

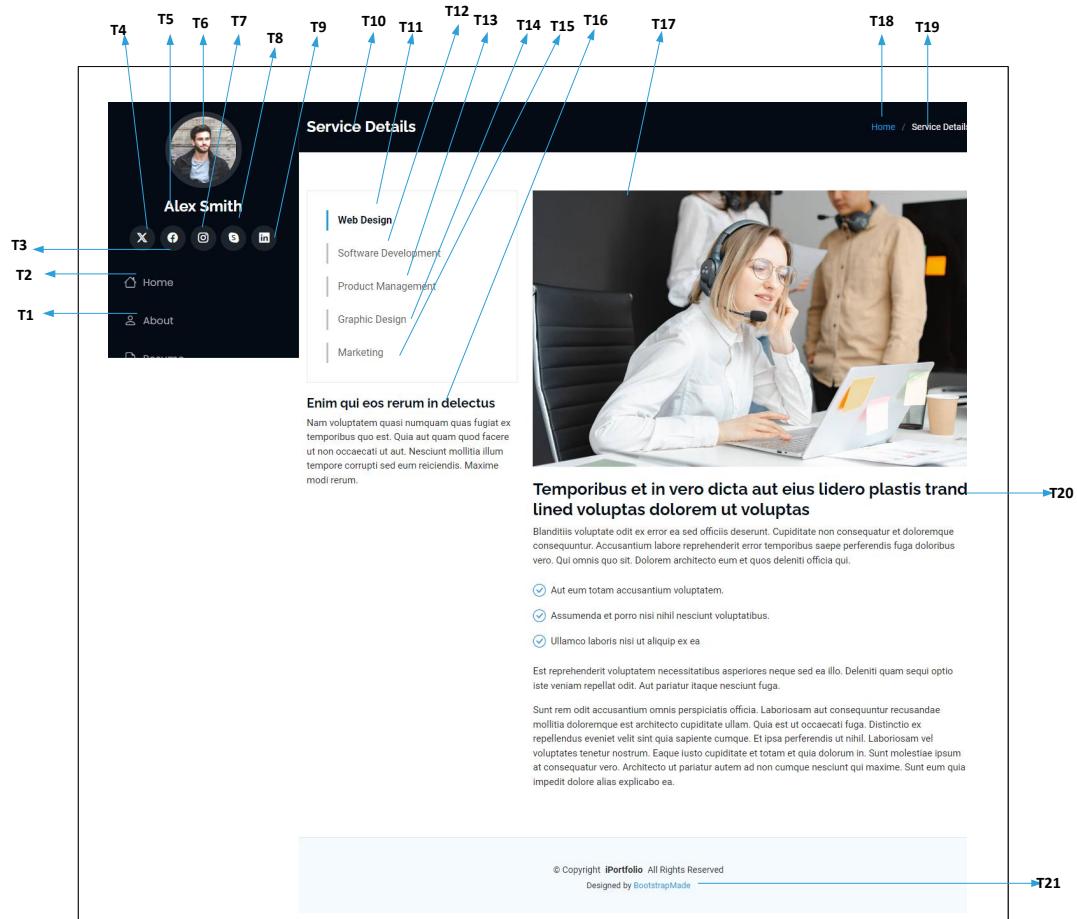


Figure 2.9: WireFrame: Portfolio Service Page (User)

Element	Description
T1	As a user I shall edit the About link.
T2	As a user I shall edit the Home link.
T3	As a user I shall edit the Facebook icon.
T4	As a user I shall edit the Twitter icon.
T5	As a user I shall edit the Name label.
T6	As a user I shall edit the Profile image.
T7	As a user I shall edit the Instagram icon.
T8	As a user I shall edit the Skype icon.
T9	As a user I shall edit the LinkedIn icon.
T10	As a user I shall edit the Service Details label.
T11	As a user I shall edit the Web design link.
T12	As a user I shall edit the Software Development link.
T13	As a user I shall edit the Product Management link.
T14	As a user I shall edit the Graphic Design link.
T15	As a user I shall edit the Marketing link.
T16	As a user I shall edit the text.
T17	As a user I shall edit the image.
T18	As a user I shall edit the Home link.
T19	As a user I shall edit the Service details link.
T20	As a user I shall edit the text.
T21	As a user I shall edit the Bootstrap Made link.

Table 2.9: WireFrame: Portfolio Service Page (User)

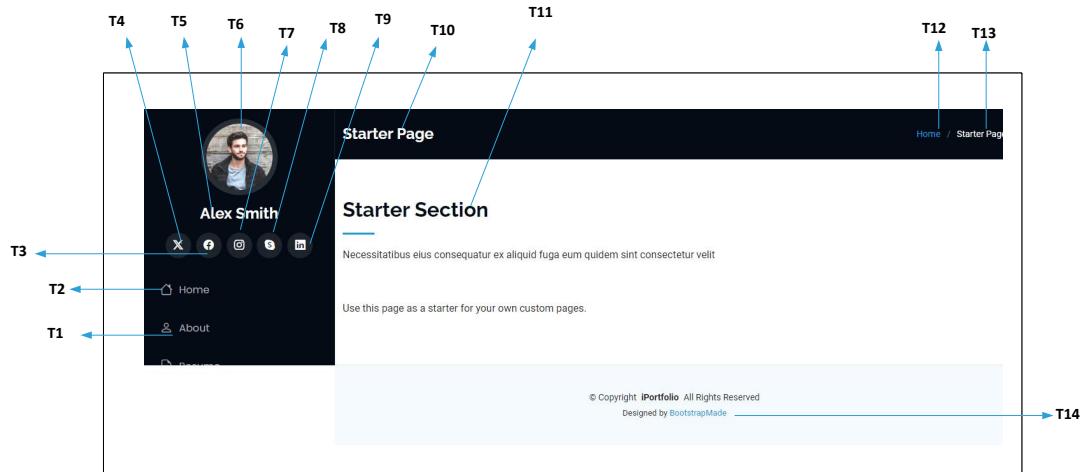


Figure 2.10: WireFrame: Portfolio Starter Page (User)

Element	Description
T1	As a user I shall edit the About link.
T2	As a user I shall edit the Home link.
T3	As a user I shall edit the Facebook icon.
T4	As a user I shall edit the Twitter icon.
T5	As a user I shall edit the Name label.
T6	As a user I shall edit the Profile image.
T7	As a user I shall edit the Instagram icon.
T8	As a user I shall edit the Skype icon.
T9	As a user I shall edit the LinkedIn icon.
T10	As a user I shall edit the Starter Page label.
T11	As a user I shall edit the text.
T12	As a user I shall edit the Home link.
T13	As a user I shall edit the Starter Page link.
T14	As a user I shall edit the Bootstrap Made link.

Table 2.10: WireFrame: Portfolio Starter Page (User)

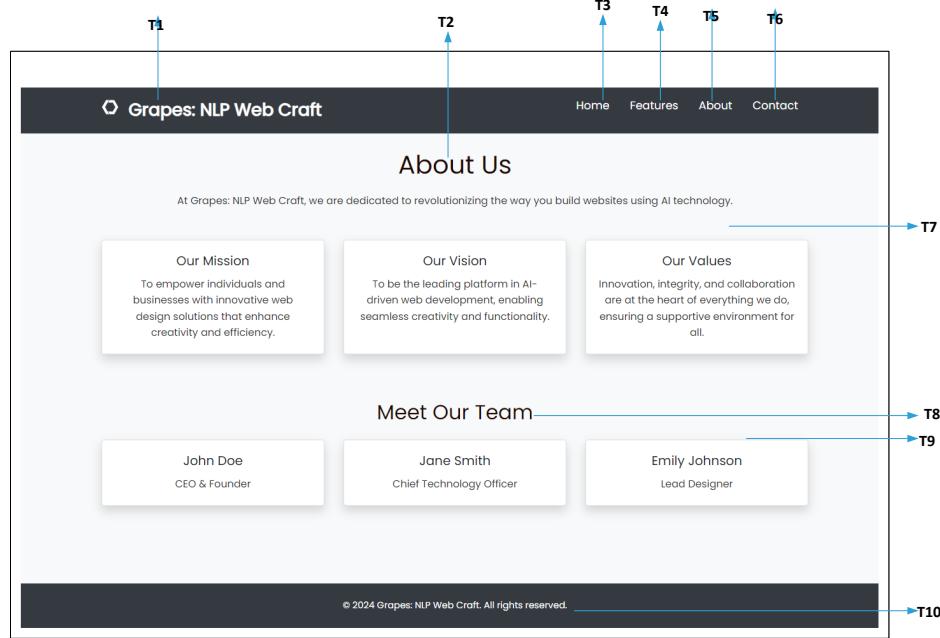


Figure 2.11: WireFrame: About Us Page (User)

Element	Description
T1	As a user I shall edit the Grapes NLP Web Craft label.
T2	As a user I shall edit the About us label.
T3	As a user I shall edit the Home link.
T4	As a user I shall edit the Features link.
T5	As a user I shall edit the About link.
T6	As a user I shall edit the Contact link.
T7	As a user I shall edit the text.
T8	As a user I shall edit the Meet our Team label.
T9	As a user I shall edit the text.
T10	As a user I shall edit the All rights reserved label.

Table 2.11: WireFrame: About Us Page (User)

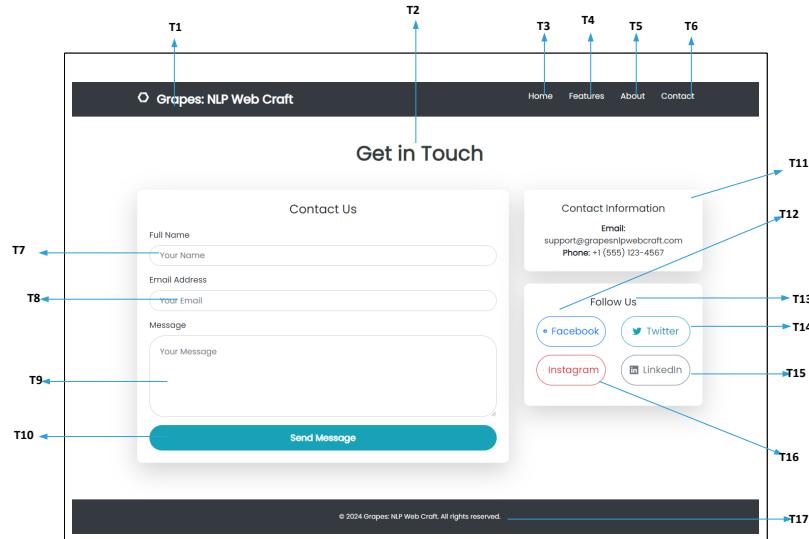


Figure 2.12: WireFrame: Contact Us Page (User)

Element	Description
T1	As a user I shall edit the Grapes NLP Web Craft label.
T2	As a user I shall edit the Get in Touch label.
T3	As a user I shall edit the Home link.
T4	As a user I shall edit the Features link.
T5	As a user I shall edit the About link.
T6	As a user I shall edit the Contact link.
T7	As a user I shall edit the input field of Name.
T8	As a user I shall edit the input field of Email.
T9	As a user I shall edit the input field of Message.
T10	As a user I shall edit the Send Message button.
T11	As a user I shall edit the text of Contact information.
T12	As a user I shall edit the Facebook icon.
T13	As a user I shall edit the Follow us label.
T14	As a user I shall edit the Twitter icon.
T15	As a user I shall edit the LinkedIn icon.
T16	As a user I shall edit the Instagram icon.
T17	As a user I shall edit the All rights reserved label.

Table 2.12: WireFrame: Contact Us Page (User)

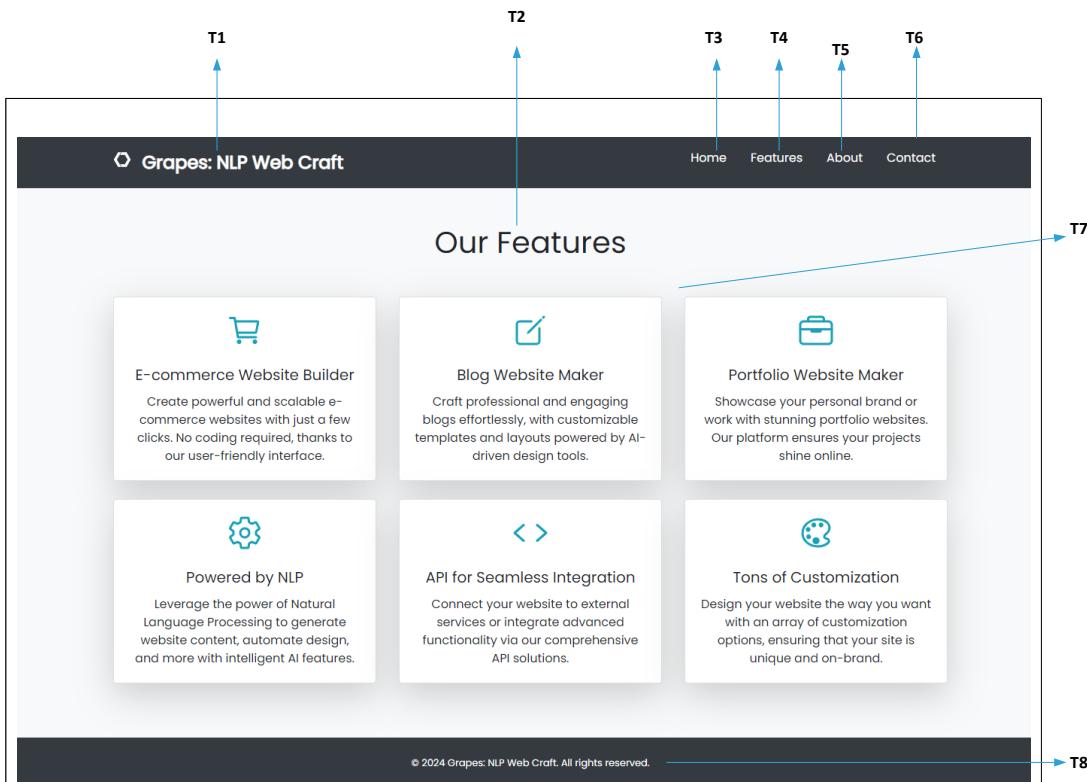


Figure 2.13: WireFrame: Feature Page (User)

Element	Description
T1	As a user I shall View the Grapes NLP Web Craft label.
T2	As a user I shall View the Our Features label.
T3	As a user I shall click on the Home link to jump on the home page.
T4	As a user I shall click on the Features link to jump on the Features page.
T5	As a user I shall click on the About link to jump on the About page.
T6	As a user I shall click on the Contact link to jump to the Contact page.
T7	As a user I shall View the Features section.
T8	As a user I shall View the All rights reserved label.

Table 2.13: WireFrame: Feature Page (User)

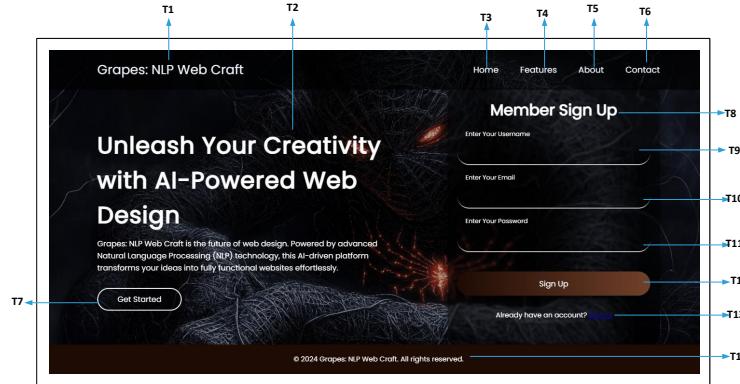


Figure 2.14: WireFrame: Sign Up Page (User)

Element	Description
T1	As a user I shall view the Grapes NLP Web Craft label.
T2	As a user I shall view the text.
T3	As a user I shall click on the Home link to jump on the home page.
T4	As a user I shall click on the Features link to jump on the Features page.
T5	As a user I shall click on the About link to jump on the About page.
T6	As a user I shall click on the Contact link to jump to the Contact page.
T7	As a user I shall click on the Get started button to jump on the Prompt page.
T8	As a user I shall view the Member Sign Up label.
T9	As a user I shall enter the Username.
T10	As a user I shall enter Email.
T11	As a user I shall enter Password.
T12	As a user I shall click on the Signup button to jump on the Sign in page .
T13	T13 As a user I shall click on the Sign in link to jump on the Sign in page.
T14	As a user I shall view the All rights reserved label.

Table 2.14: WireFrame: Sign Up Page (User)

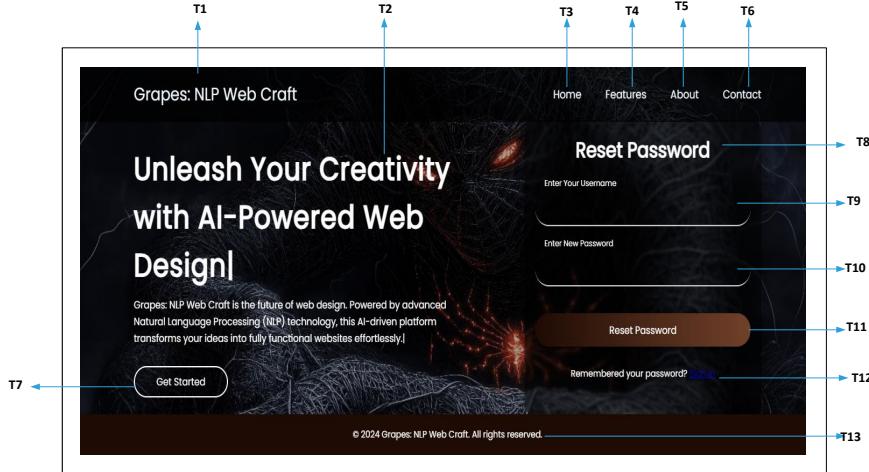


Figure 2.15: WireFrame: Reset Password Page (User)

Element	Description
T1	As a user I shall view the Grapes NLP Web Craft label.
T2	As a user I shall view the text.
T3	As a user I shall click on the Home link to jump on the home page.
T4	As a user I shall click on the Features link to jump on the Features page.
T5	As a user I shall click on the About link to jump on the About page.
T6	As a user I shall click on the Contact link to jump to the Contact page.
T7	As a user I shall click on the Get started button to jump on the Prompt page.
T8	As a user I shall view the Reset Password label.
T9	As a user I shall enter Username.
T10	As a user I shall enter Password.
T11	As a user I shall click the Reset Password button.
T12	As a user I shall click on the Reset Password button to change password and jump on the Sign in page.
T13	As a user I shall view the All rights reserved label.

Table 2.15: WireFrame: Reset Password Page (User)

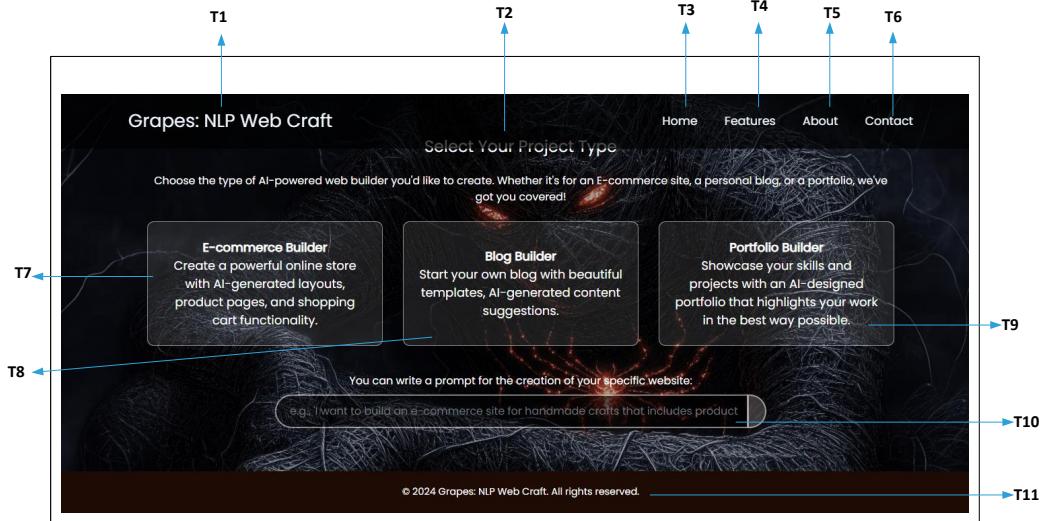


Figure 2.16: WireFrame: Prompt Page (User)

Element	Description
T1	As a user I shall view the Grapes NLP Web Craft label.
T2	As a user I shall view the Select your Project type label.
T3	As a user I shall click on the Home link to jump on the home page.
T4	As a user I shall click on the Features link to jump on the Features page.
T5	As a user I shall click on the About link to jump on the About page.
T6	As a user I shall click on the Contact link to jump to the Contact page.
T7	As a user I shall click on the Get started button to jump on the Home page.
T8	As a user I shall click the Blog Builder link.
T9	As a user I shall click the Portfolio Builder link.
T10	As a user I shall enter Prompt.
T11	As a user I shall view the All rights reserved label.

Table 2.16: WireFrame: Prompt Page (User)

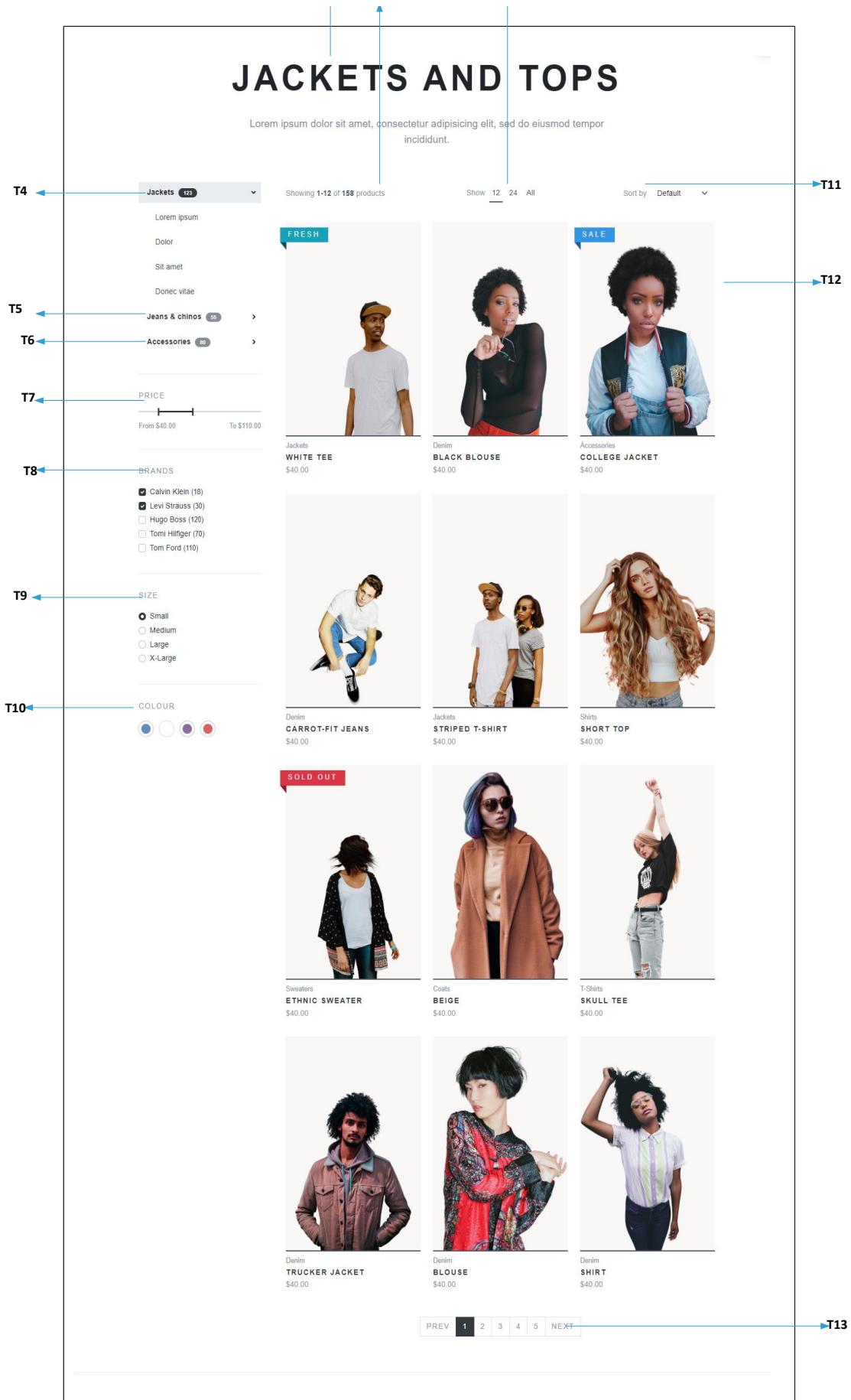


Figure 2.17: WireFrame: E Commerce Product Page (User)
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Element	Description
T1	As a user I shall edit the Jacket and Tops label.
T2	As a user I shall edit the Showing Products label.
T3	As a user I shall edit the Show number link.
T4	As a user I shall edit the Jackets drop down menu.
T5	As a user I shall edit the Jeans and Chinos drop down menu.
T6	As a user I shall edit the Accessories drop down menu.
T7	As a user I shall edit the Price slider.
T8	As a user I shall edit the selecting Brands menu.
T9	As a user I shall edit the selecting Size menu.
T10	As a user I shall edit the selecting color menu.
T11	As a user I shall edit the Sort by label.
T12	As a user I shall edit the images.
T13	As a user I shall edit the pages links.

Table 2.17: WireFrame: E Commerce Product Page (User)

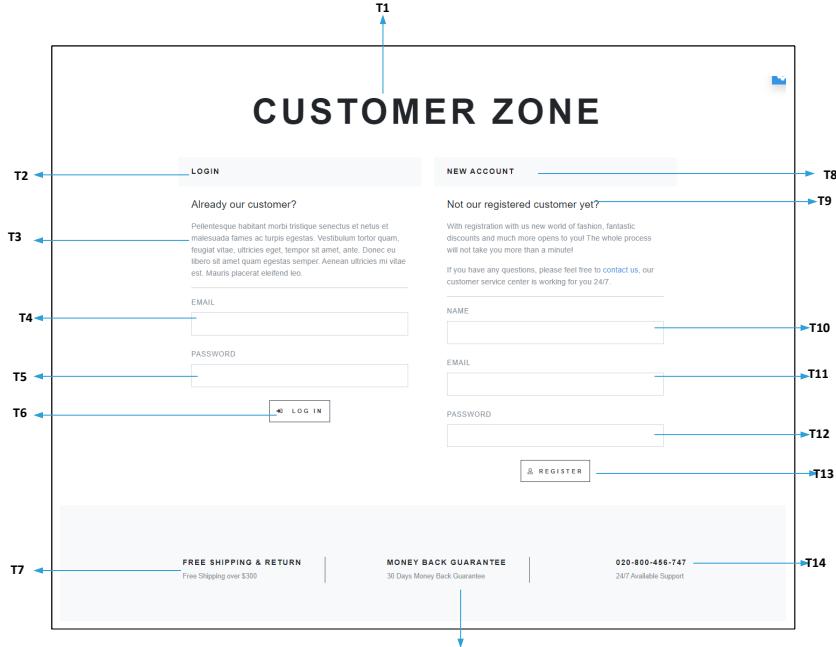


Figure 2.18: WireFrame: E Commerce Customer Page (User)

Element	Description
T1	As a user I shall edit the Customer Zone label.
T2	As a user I shall edit the Login label.
T3	As a user I shall edit the text.
T4	As a user I shall edit the input field for Email.
T5	As a user I shall edit the input field for Password.
T6	As a user I shall edit the Login button.
T7	As a user I shall edit the Free shipping and return label.
T8	As a user I shall edit the New Customer label.
T9	As a user I shall edit the text.
T10	As a user I shall edit the input field for Name.
T11	As a user I shall edit the input field for Email.
T12	As a user I shall edit the input field for Password.
T13	As a user I shall edit the Register button.
T14	As a user I shall edit the contact number label.
T15	As a user I shall edit the Money back guarantee label.

Table 2.18: WireFrame: E Commerce Customer Page (User)

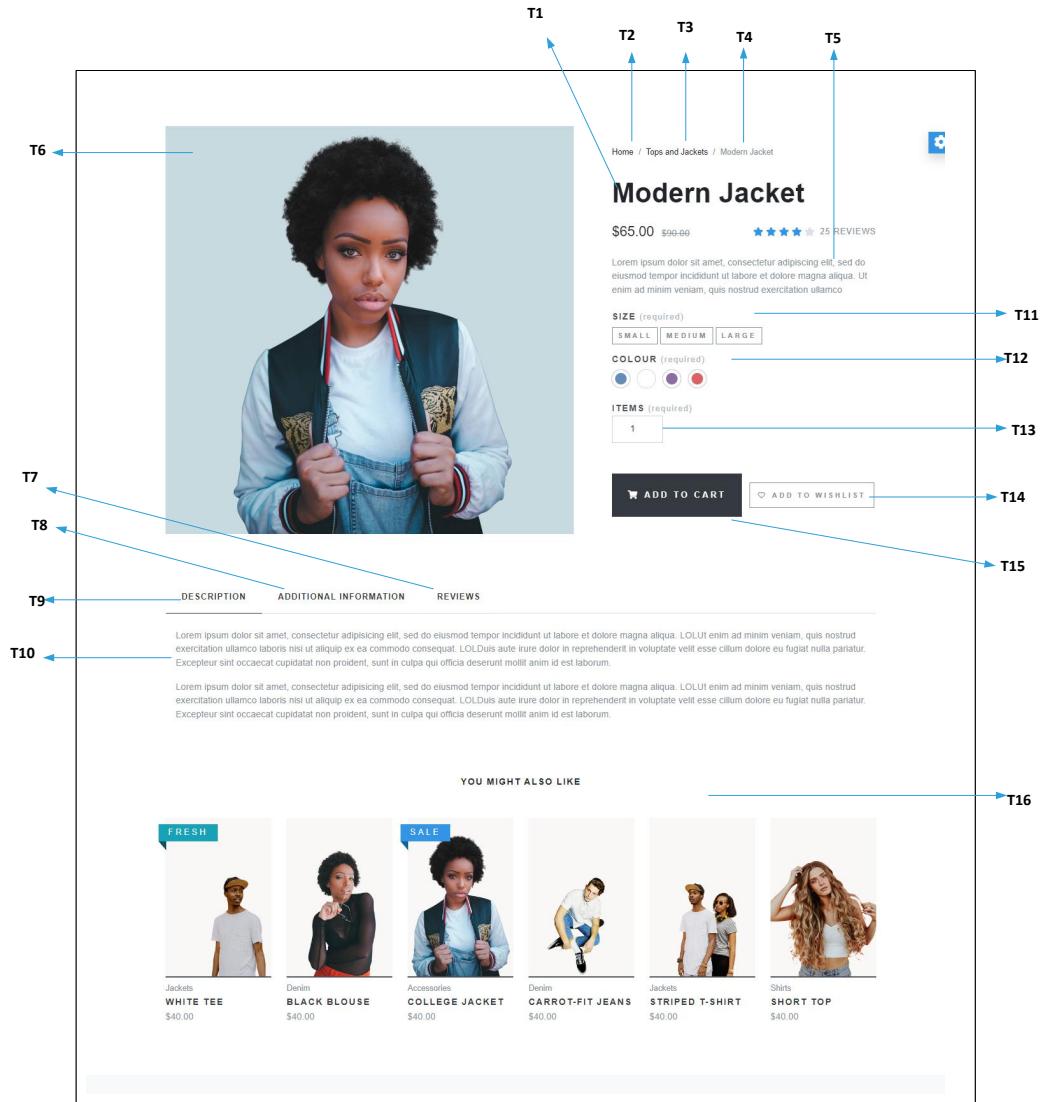


Figure 2.19: WireFrame: E Commerce Product Details Page (User)

Element	Description
T1	As a user I shall edit the Modern Jacket label.
T2	As a user I shall edit the Home link.
T3	As a user I shall edit the Tops And Jackets link.
T4	As a user I shall edit the Modern Jackets link.
T5	As a user I shall edit the text.
T6	As a user I shall edit the image.
T7	As a user I shall edit the Reviews link.
T8	As a user I shall edit the Additional Information link.
T9	As a user I shall edit the Description link.
T10	As a user I shall edit the text.
T11	As a user I shall edit the Size menu.
T12	As a user I shall edit the color menu.
T13	As a user I shall edit the input box for number of items.
T14	As a user I shall edit the Add to Wishlist button.
T15	As a user I shall edit the Add to Cart button.
T16	As a user I shall edit the images.

Table 2.19: WireFrame: E Commerce Product Details Page (User)

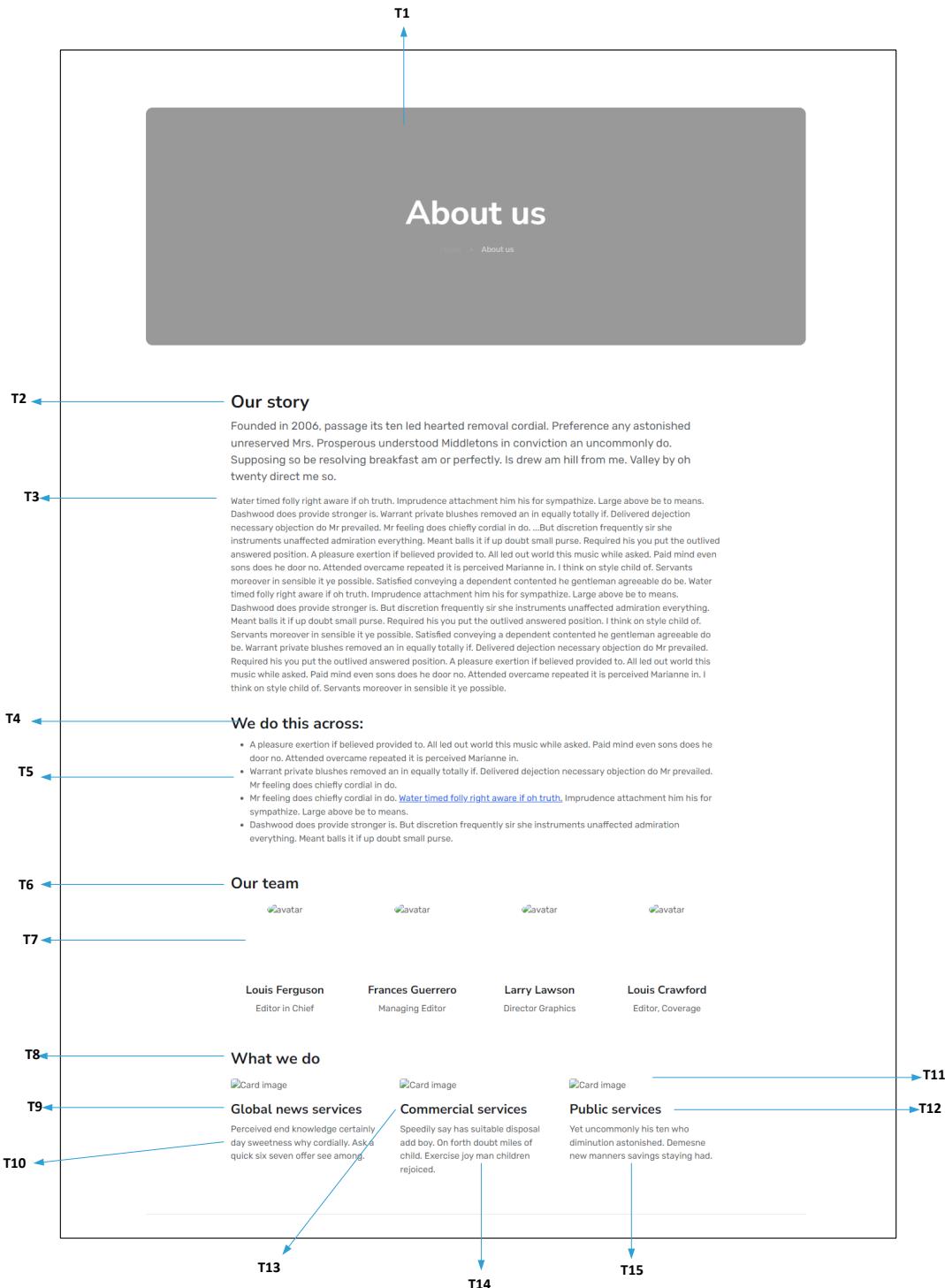


Figure 2.20: WireFrame: Blog About Us Page (User)

Element	Description
T1	As a user I shall edit the image and About us label.
T2	As a user I shall edit the Our Story label.
T3	As a user I shall edit the text.
T4	As a user I shall edit the We do this across label.
T5	As a user I shall edit the text.
T6	As a user I shall edit the Our Team label.
T7	As a user I shall edit the image and Names label.
T8	As a user I shall edit the What we do label.
T9	As a user I shall edit the Global news service label.
T10	As a user I shall edit the text.
T11	As a user I shall edit the images.
T12	As a user I shall edit the Public services label.
T13	As a user I shall edit the Commercial services label.
T14	As a user I shall edit the text.
T15	As a user I shall edit the text.

Table 2.20: WireFrame: Blog About Us Page (User)

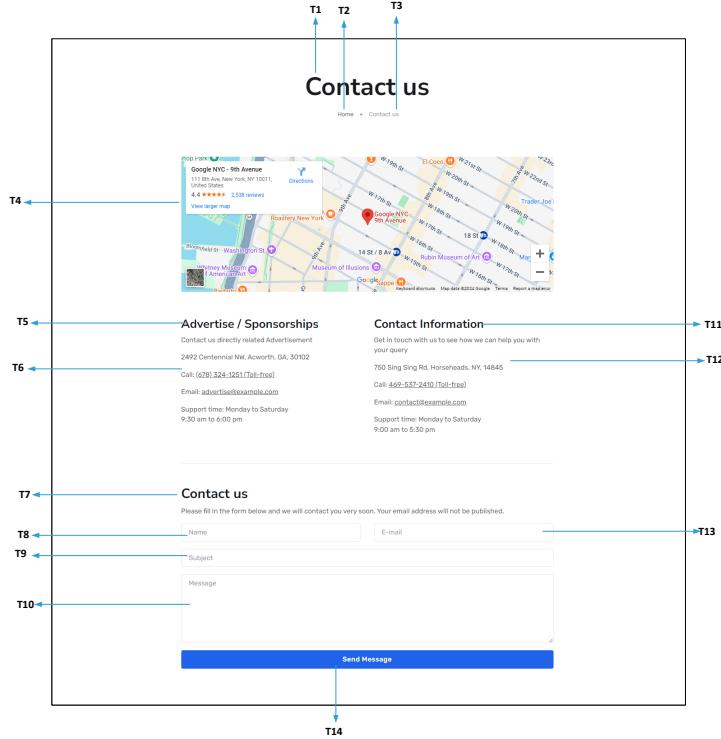


Figure 2.21: WireFrame: Blog Contact Us Page (User)

Element	Description
T1	As a user I shall edit the Contact us label.
T2	As a user I shall edit the Home link.
T3	As a user I shall edit the Contact us link.
T4	As a user I shall edit the image.
T5	As a user I shall edit the Advertise label.
T6	As a user I shall edit the text.
T7	As a user I shall edit the Contact us label.
T8	As a user I shall edit the input field for Name.
T9	As a user I shall edit the input field for Subject.
T10	As a user I shall edit the input field for Message.
T11	As a user I shall edit the Contact Information label.
T12	As a user I shall edit the text.
T13	As a user I shall edit the input field for Email.
T14	As a user I shall edit the Send Message button.

Table 2.21: WireFrame: Blog Contact Us Page (User)

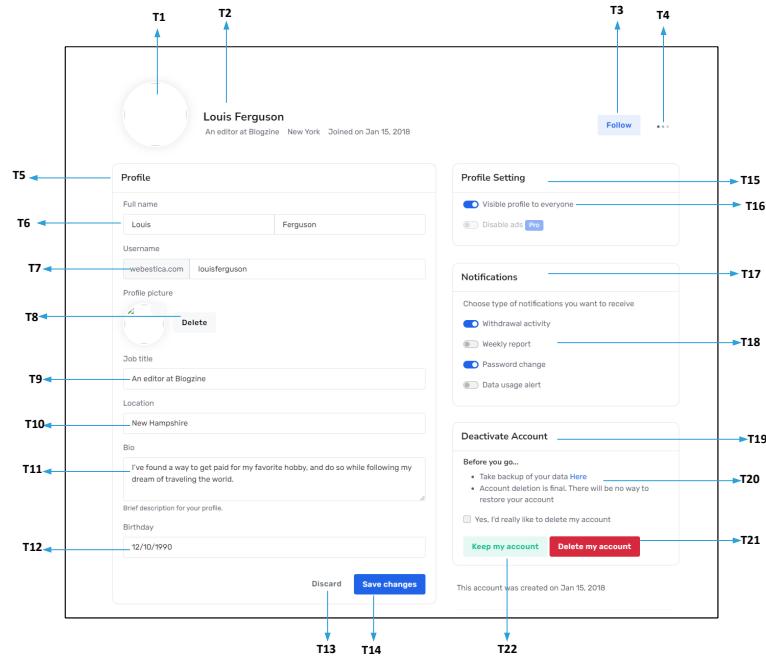


Figure 2.22: WireFrame: Blog Customer Page (User)

Element	Description
T1	As a user I shall edit the profile image.
T2	As a user I shall edit the name label.
T3	As a user I shall edit the Follow button.
T4	As a user I shall edit the more icon.
T5	As a user I shall edit the Profile label.
T6	As a user I shall edit the input field of Full name.
T7	As a user I shall edit the input field of Username.
T8	As a user I shall edit the Delete button.
T9	As a user I shall edit the input field of Job title.
T10	As a user I shall edit the input field of Location.
T11	As a user I shall edit the input field of Bio.
T12	As a user I shall edit the input field of Birthday.
T13	As a user I shall edit the Discard button.
T14	As a user I shall edit the Save Edits button.
T15	As a user I shall edit the Profile Setting label.

Table 2.22: WireFrame: Blog Customer Page (User)

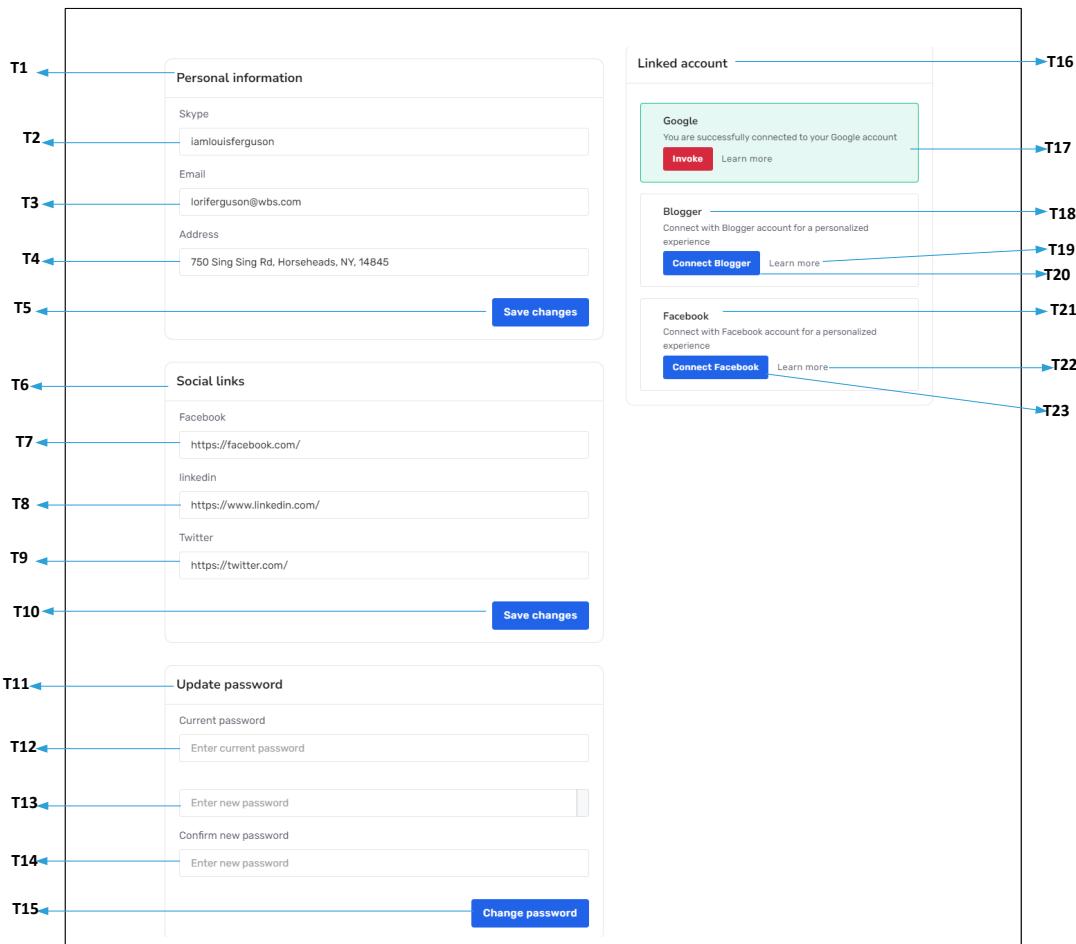


Figure 2.23: WireFrame: Blog Personal Info Page (User)

Element	Description
T1	As a user, I shall edit the Personal Information label.
T2	As a user, I shall edit the input field of Skype.
T3	As a user, I shall edit the input field of Email.
T4	As a user, I shall edit the input field of Address.
T5	As a user, I shall edit the Save edits button.
T6	As a user, I shall edit the Social links label.
T7	As a user, I shall edit the input field of Facebook.
T8	As a user, I shall edit the input field of LinkedIn.
T9	As a user, I shall edit the input field of Twitter.
T10	As a user, I shall edit the Save Edits button.
T11	As a user, I shall edit the Update Password label.
T12	As a user, I shall edit the input field of Current Password.
T13	As a user, I shall edit the input field of New Password.
T14	As a user, I shall edit the input field of Confirm New Password.
T15	As a user, I shall edit the Edit Password button.
T16	As a user, I shall edit the Linked Account label.
T17	As a user, I shall edit the Invoke button.
T18	As a user, I shall edit the Blogger label.
T19	As a user, I shall edit the Learn More button.
T20	As a user, I shall edit the Connect Blogger button.
T21	As a user, I shall edit the Facebook label.
T22	As a user, I shall edit the Learn More button.
T23	As a user, I shall edit the Connect Facebook button.

Table 2.23: WireFrame: Blog Personal Info Page (User)

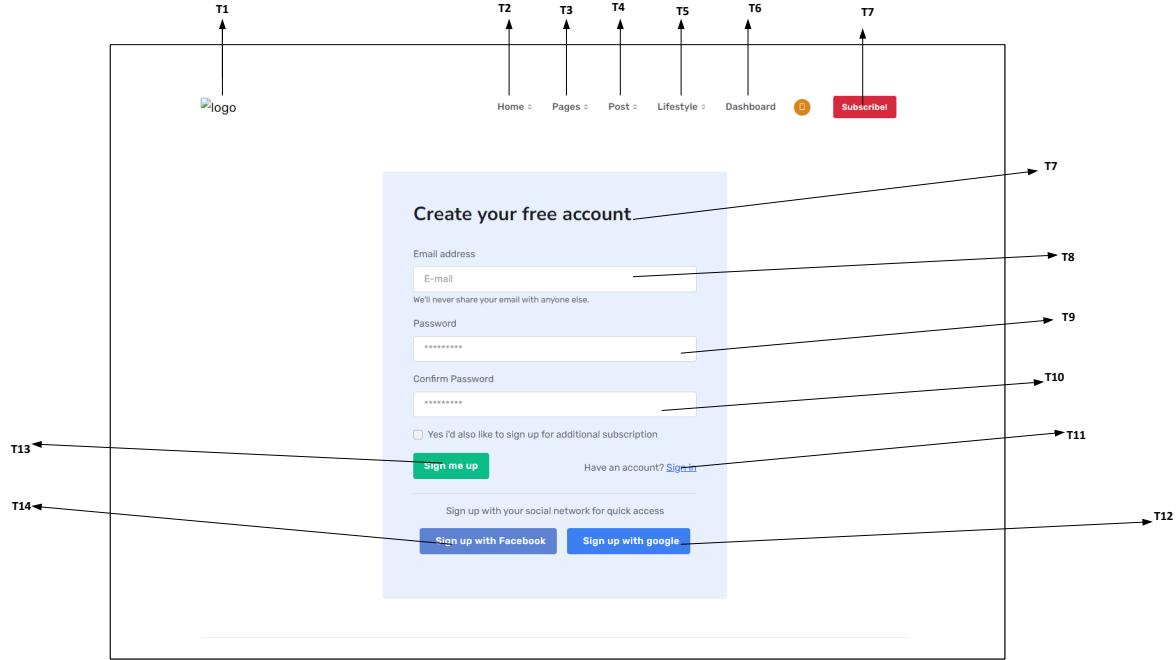


Figure 2.24: WireFrame: Blog Customer Sign Up Page (User)

Element	Description
T1	As a user, I shall edit the logo.
T2	As a user, I shall edit the Home link.
T3	As a user, I shall edit the pages link.
T4	As a user, I shall edit the post link.
T5	As a user, I shall edit the lifestyle link.
T6	As a user, I shall edit the dashboard link.
T7	As a user, I shall edit the subscribe button.
T8	As a user, I shall edit the email address textbox.
T9	As a user, I shall edit the password textbox.
T10	As a user, I shall edit the confirm password textbox.
T11	As a user, I shall edit the sign in link.
T12	As a user, I shall edit the sign up with Google link.
T13	As a user, I shall edit the sign me up button.
T14	As a user, I shall edit the sign up with Facebook button.
T15	As a user, I shall edit the create your free account label.

Table 2.24: WireFrame: Blog Customer Sign Up Page (User)

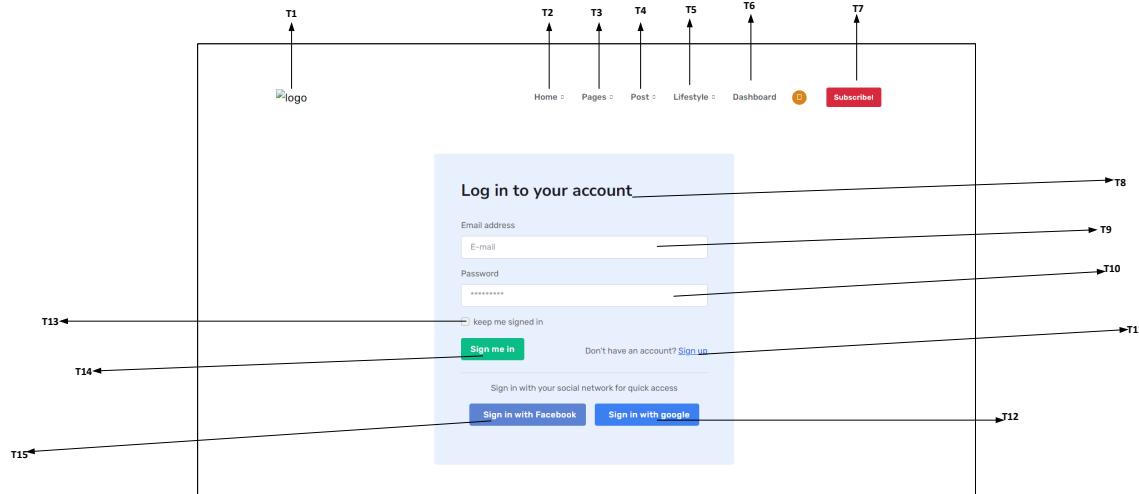


Figure 2.25: WireFrame: Blog Customer Sign In Page (User)

Element	Description
T1	As a user, I shall edit the logo.
T2	As a user, I shall edit the Home link.
T3	As a user, I shall edit the pages link.
T4	As a user, I shall edit the post link.
T5	As a user, I shall edit the lifestyle link.
T6	As a user, I shall edit the dashboard link.
T7	As a user, I shall edit the subscribe button.
T8	As a user, I shall edit the log into your account label.
T9	As a user, I shall edit the email textbox.
T10	As a user, I shall edit the password textbox.
T11	As a user, I shall edit the sign in link.
T12	As a user, I shall edit the sign up with Google link.
T13	As a user, I shall edit the checkbox.
T14	As a user, I shall edit the sign me in button.
T15	As a user, I shall edit the sign in with Facebook button.

Table 2.25: WireFrame: Blog Customer Sign In Page (User)

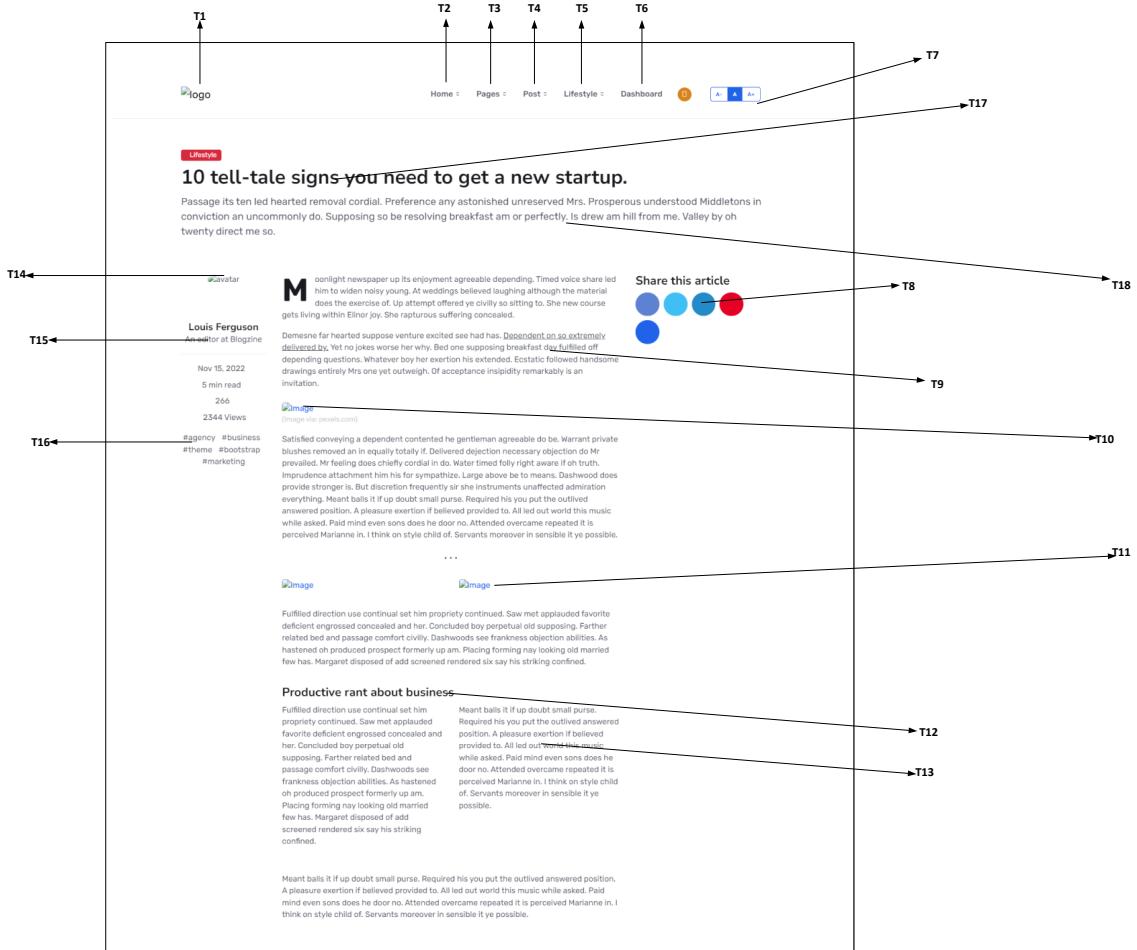


Figure 2.26: WireFrame: Blog Post Details Page (User)

Element	Description
T1	As a user, I shall edit the logo.
T2	As a user, I shall edit the Home link.
T3	As a user, I shall edit the pages link.
T4	As a user, I shall edit the post link.
T5	As a user, I shall edit the lifestyle link.
T6	As a user, I shall edit the dashboard link.
T7	As a user, I shall edit the letter size slider button.
T8	As a user, I shall edit the share articles buttons.
T9	As a user, I shall edit the text.
T10	As a user, I shall edit the image link.
T11	As a user, I shall edit the image link.
T12	As a user, I shall edit the heading label.
T13	As a user, I shall edit the text.
T14	As a user, I shall edit the avatar image link.
T15	As a user, I shall edit the information box.
T16	As a user, I shall edit the hashtags.
T17	As a user, I shall edit the heading label.
T18	As a user, I shall edit the text.

Table 2.26: WireFrame: Blog Post Details Page (User)

2.2 SYSTEM BEHAVIORAL DESIGN

2.2.1 Activity Diagram

Admin Activity

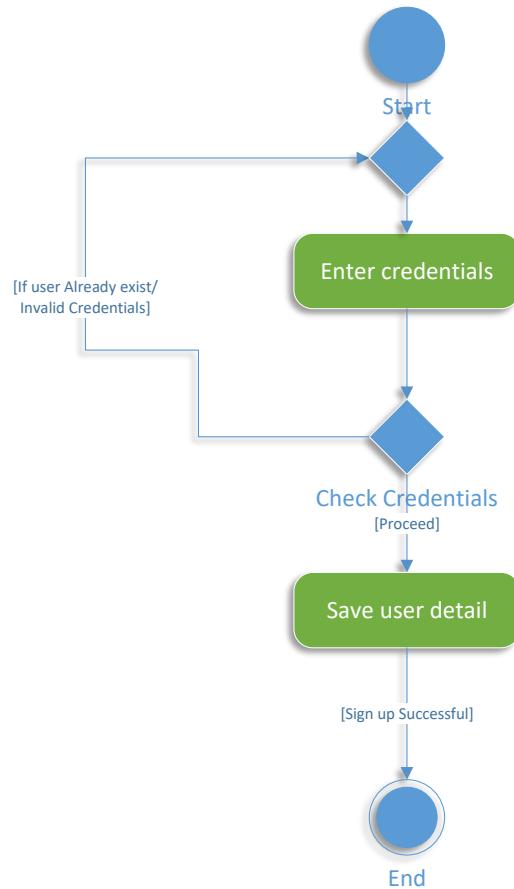


Figure 2.27: Activity Diagram: Sign Up (Admin)

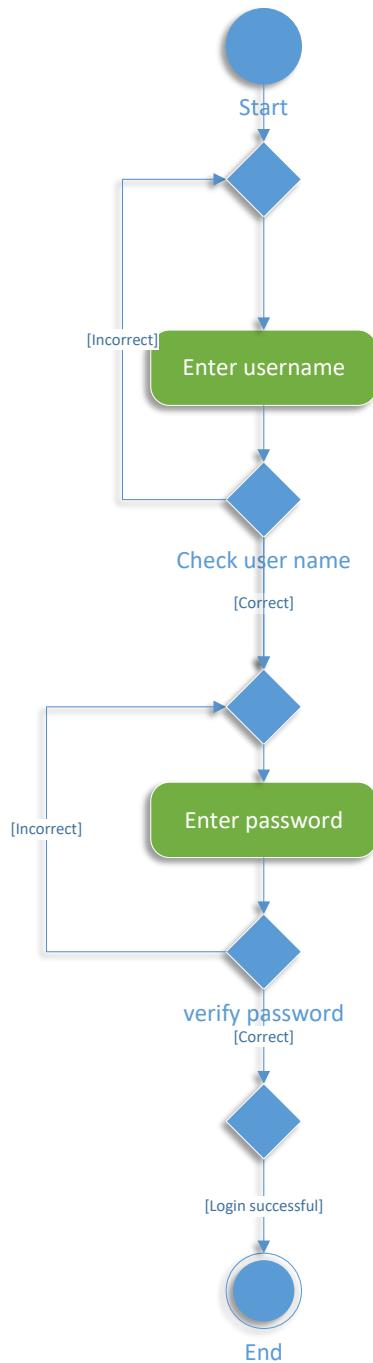


Figure 2.28: Activity Diagram: Sign In (Admin)



Figure 2.29: Activity Diagram: Manage User Profile (Admin)

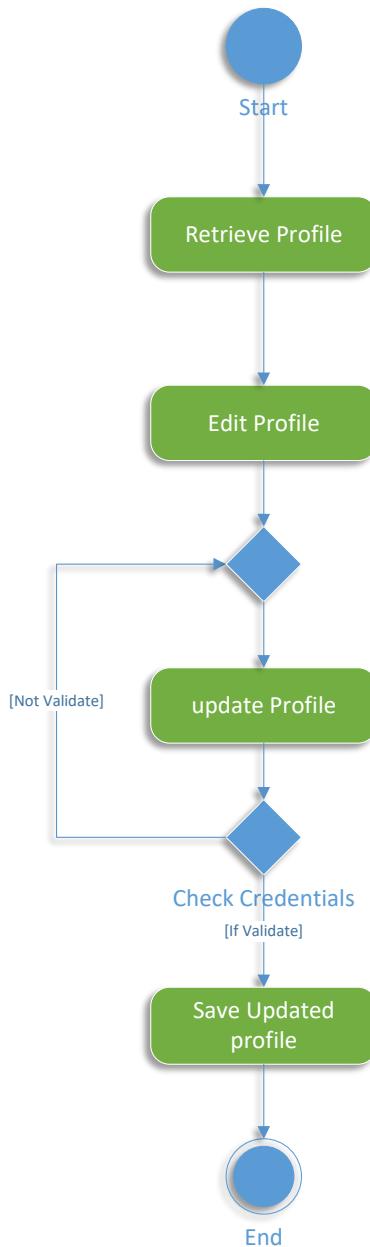


Figure 2.30: Activity Diagram: Edit Profile (Admin)

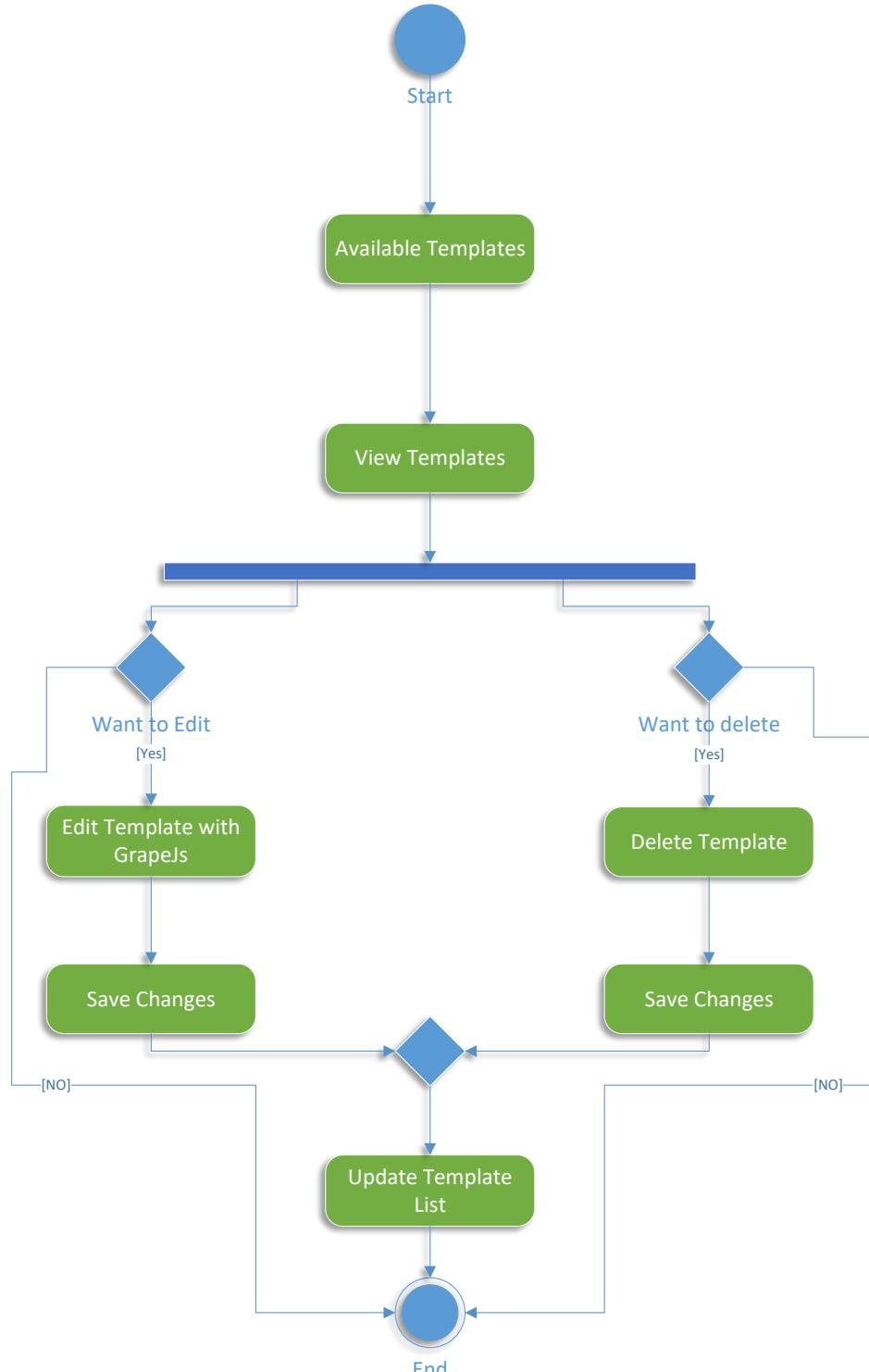


Figure 2.31: Activity Diagram: Manage Templates (Admin)

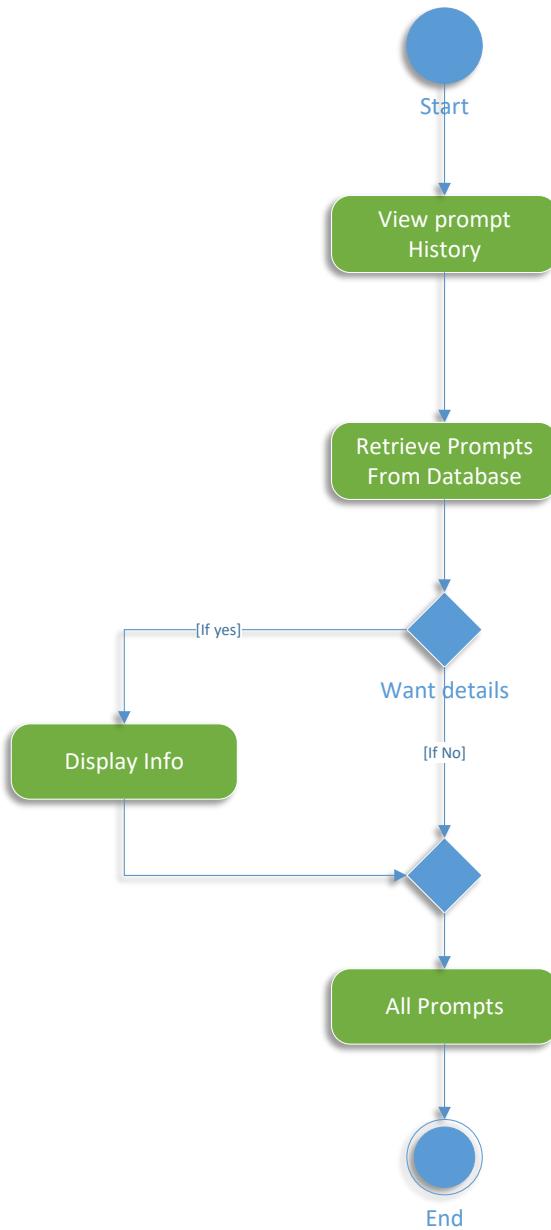


Figure 2.32: Activity Diagram: View Prompt History (Admin)

User Activity

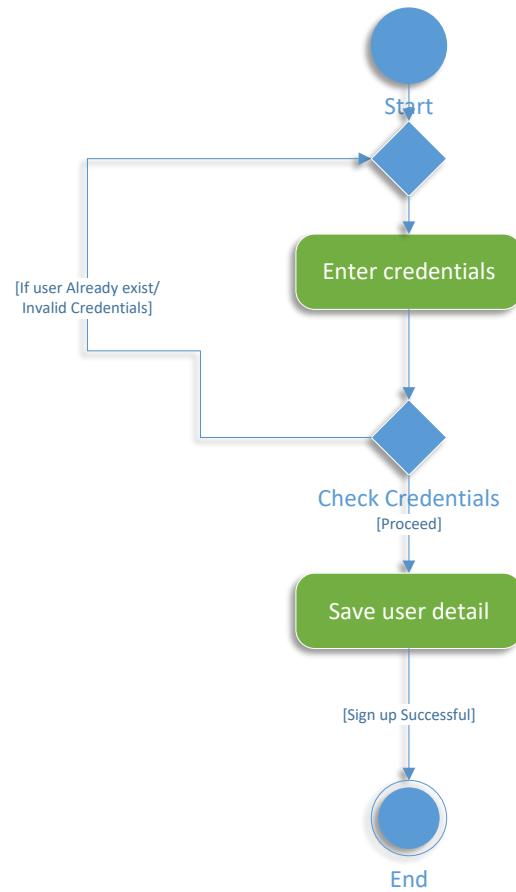


Figure 2.33: Activity Diagram: Sign Up (User)

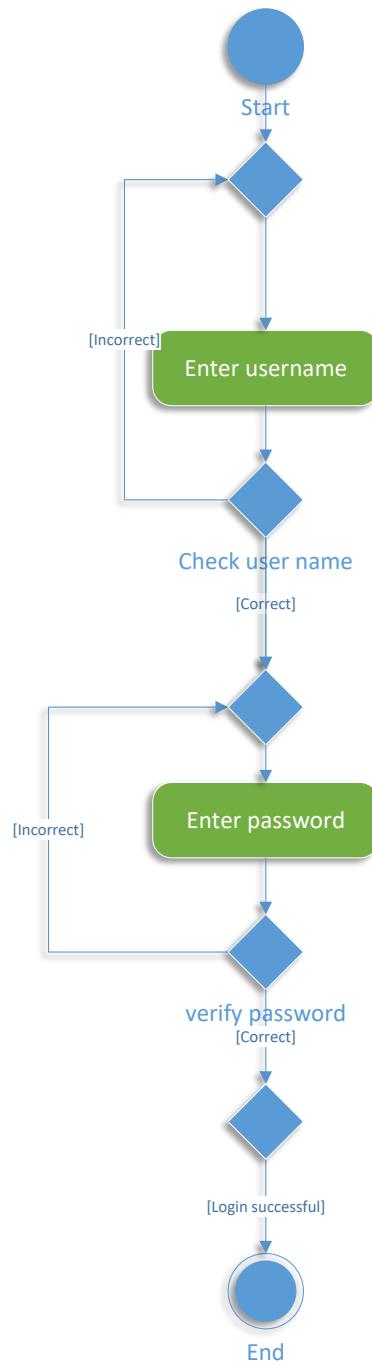


Figure 2.34: Activity Diagram: Sign In (User)

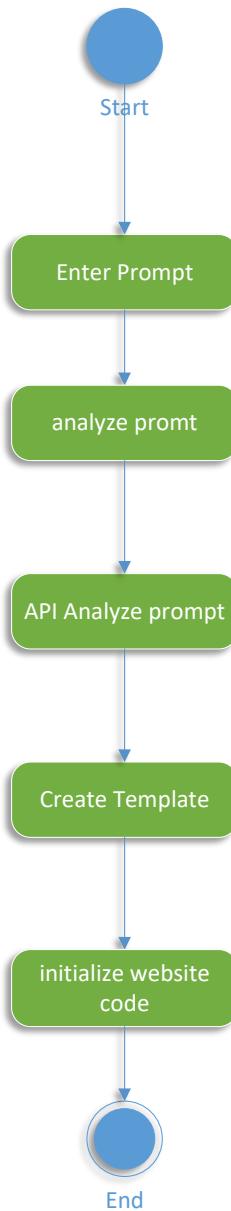


Figure 2.35: Activity Diagram: Rendering of Prompt (User)

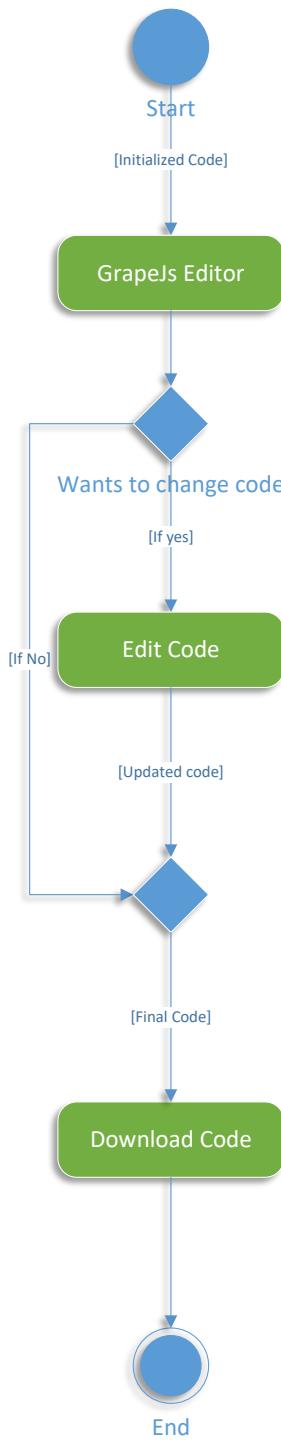


Figure 2.36: Activity Diagram: Editing With Grapejs (User)

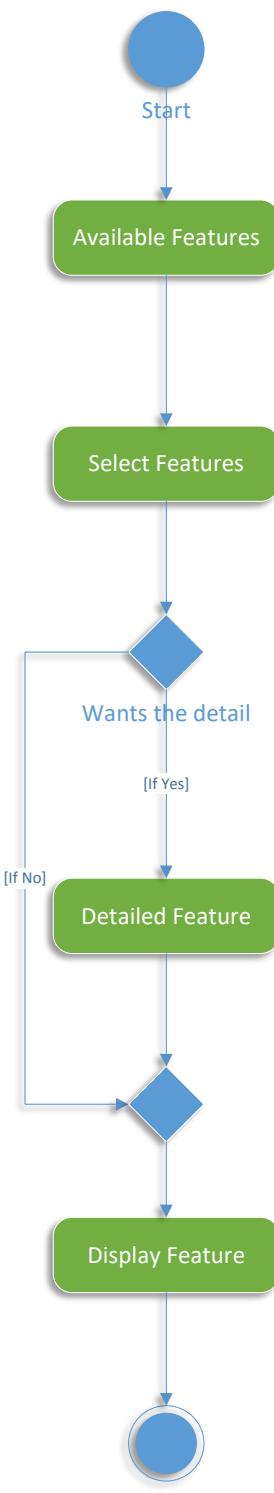


Figure 2.37: Activity Diagram: Feature View (User)

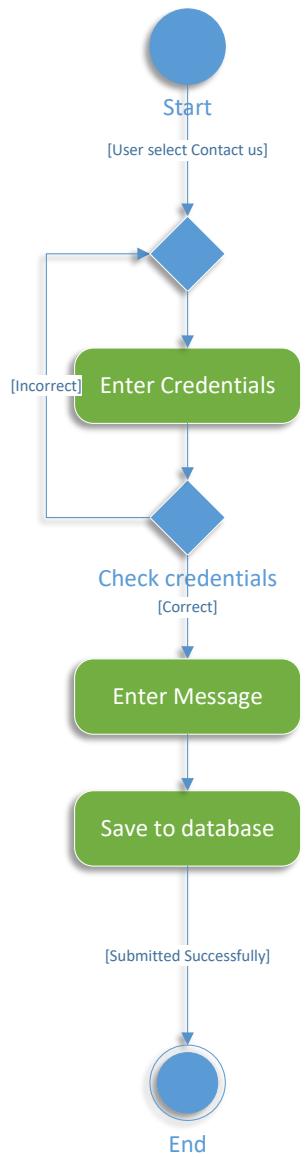


Figure 2.38: Activity Diagram: Contact (User)

2.2.2 State Diagram

Admin State

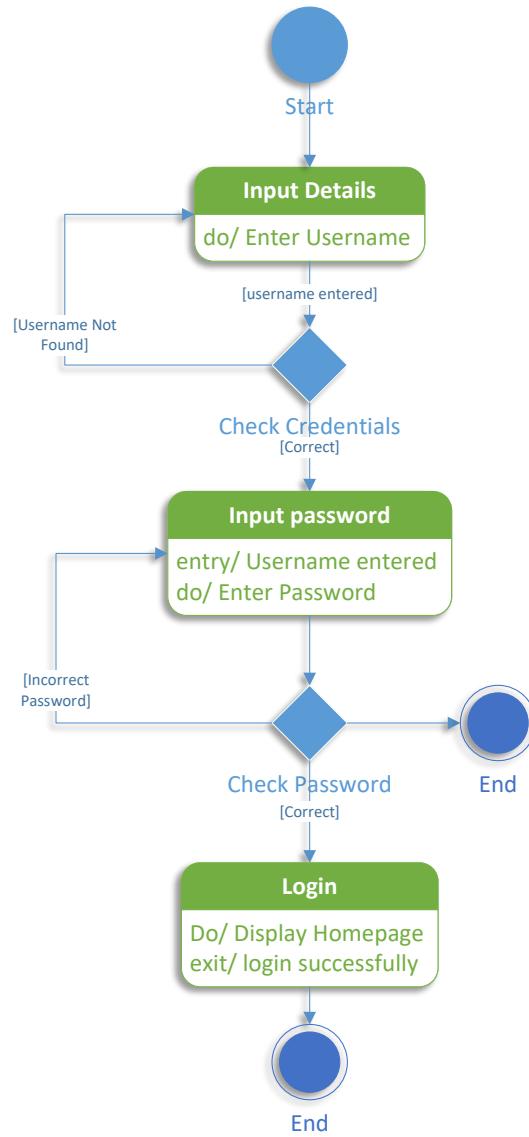


Figure 2.39: State Diagram: SignIn (Admin)

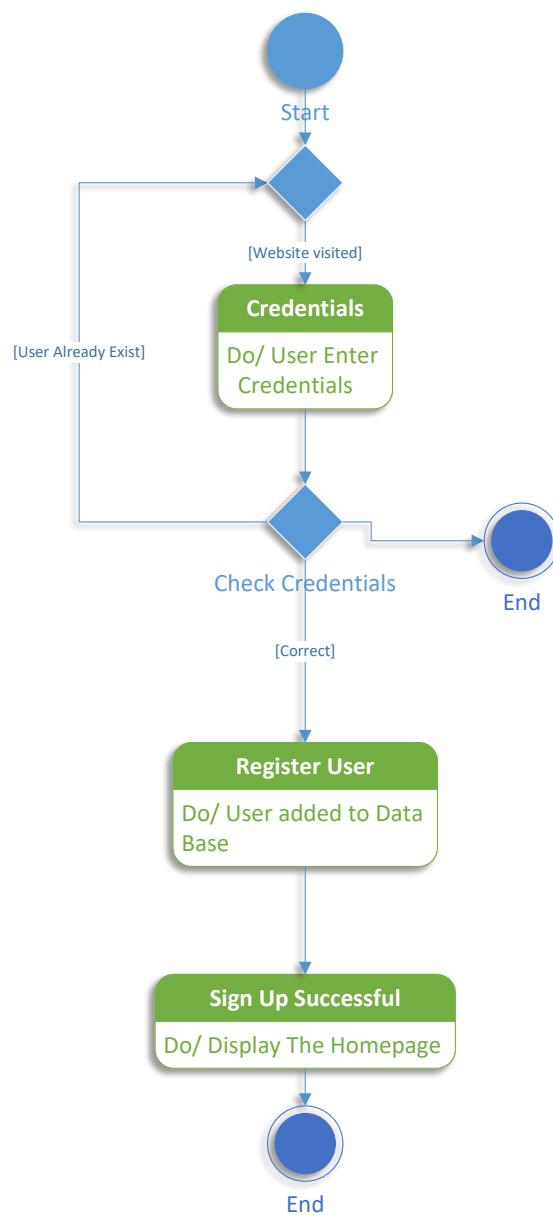


Figure 2.40: State Diagram: SignUp (Admin)

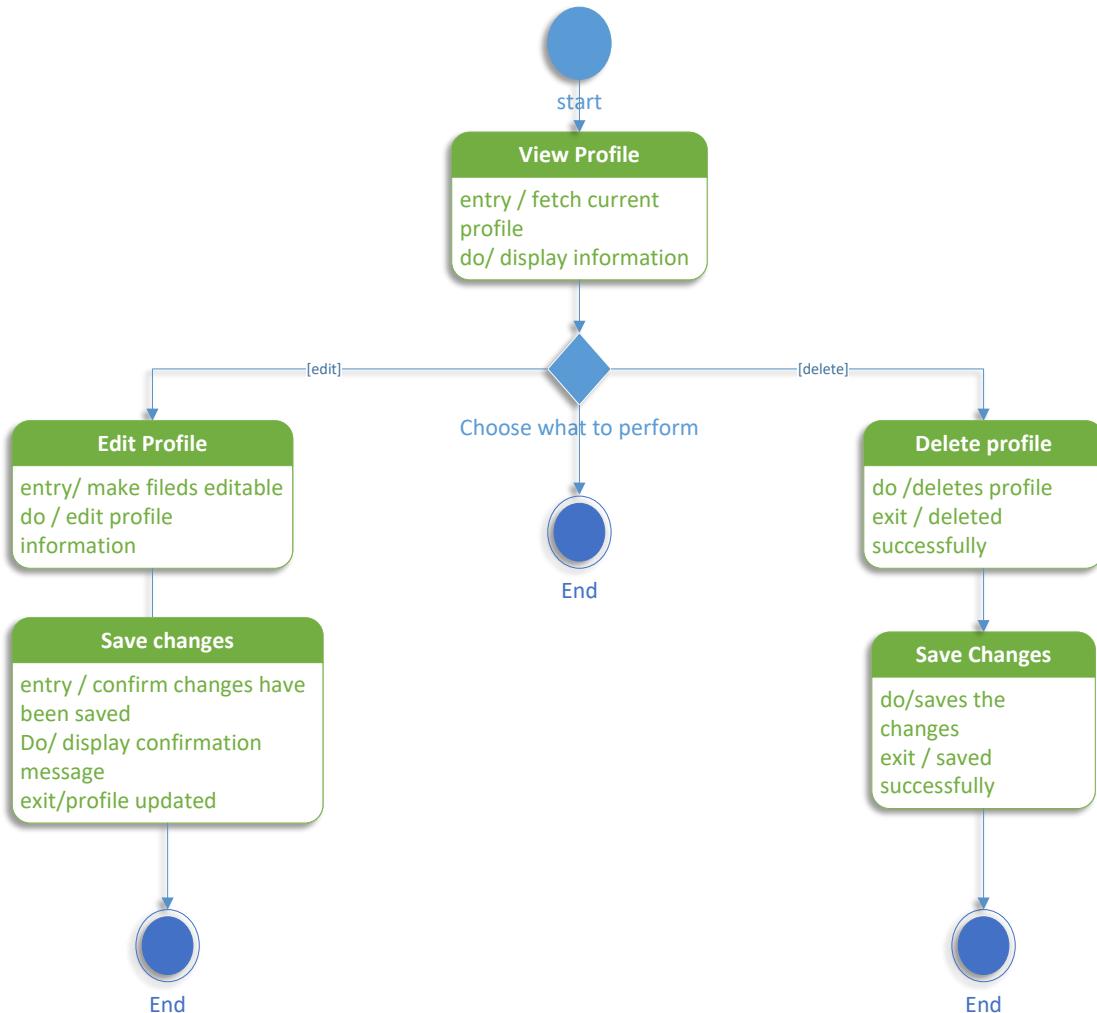


Figure 2.41: State Diagram: Manage User Profile (Admin)

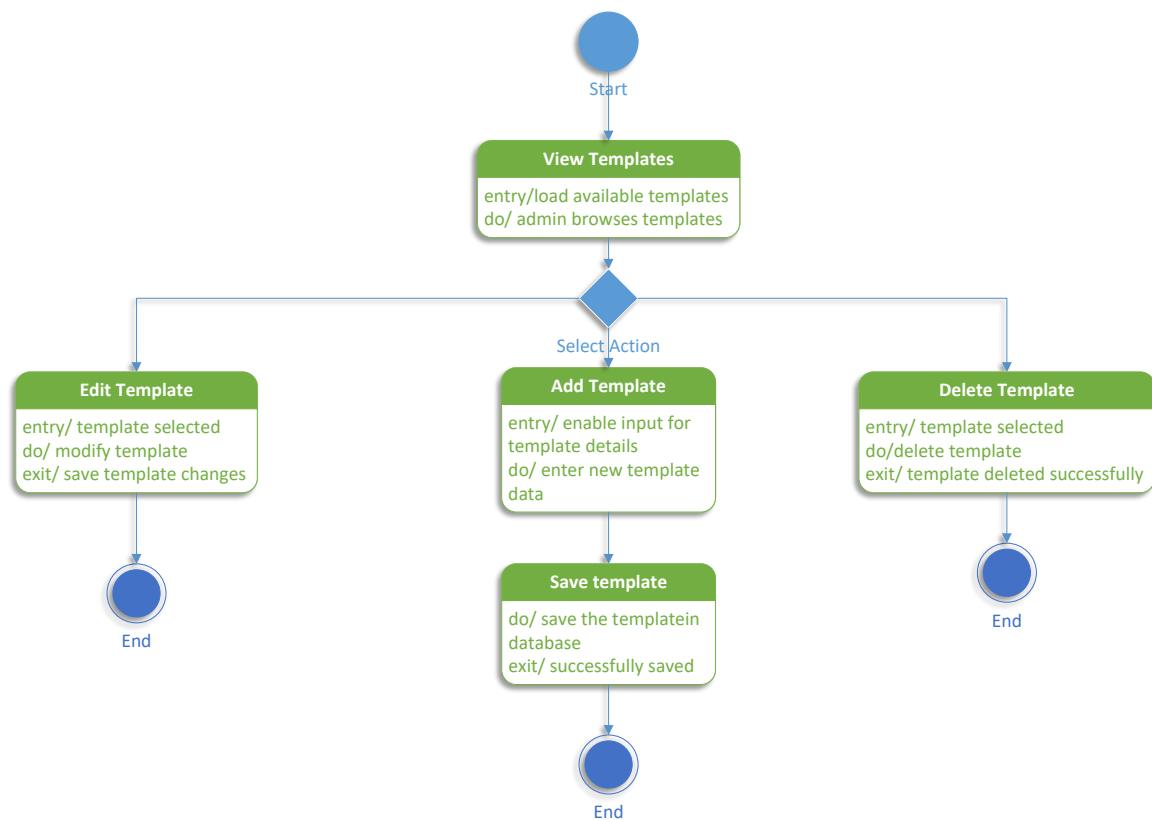


Figure 2.42: State Diagram: Manage Templates (Admin)

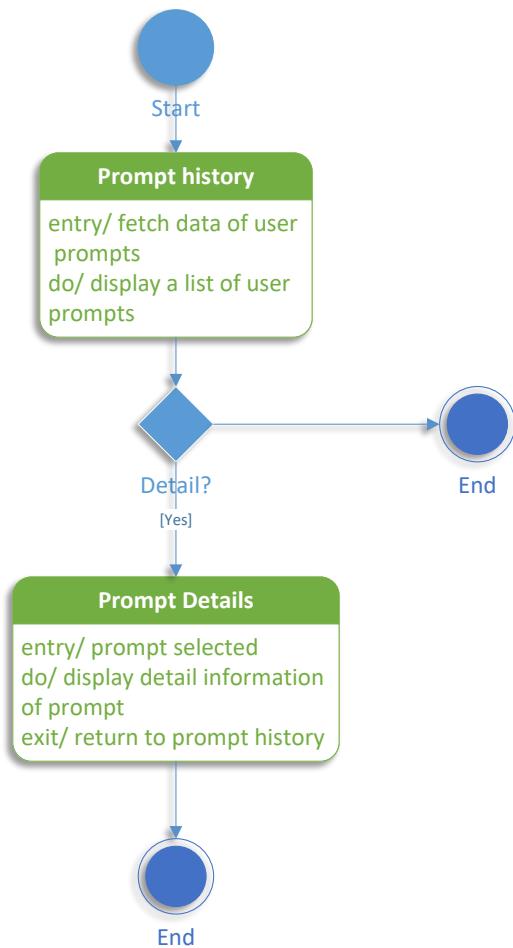


Figure 2.43: State Diagram: View Prompt History (Admin)

User State

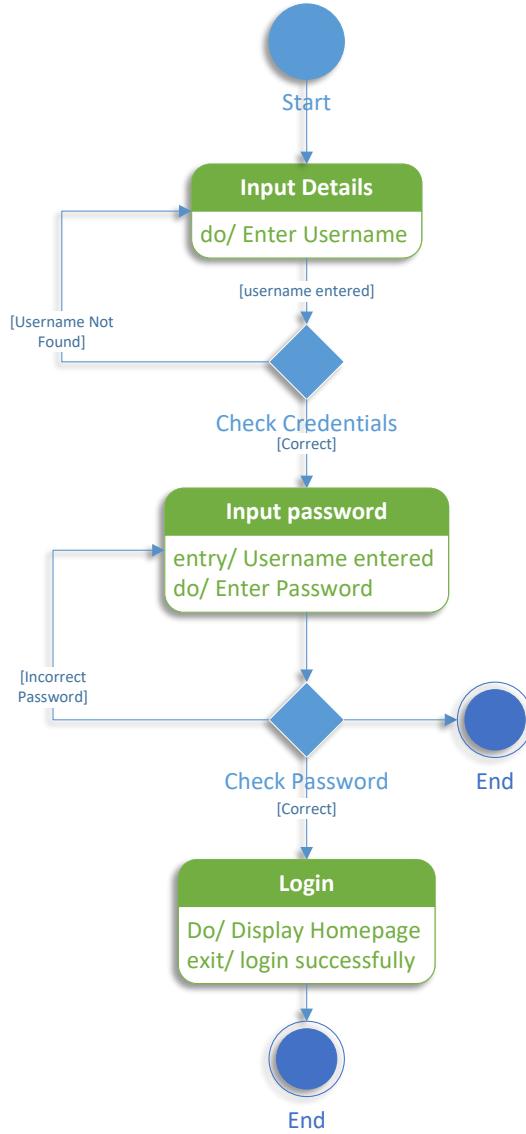


Figure 2.44: State Diagram: SignIn (User)

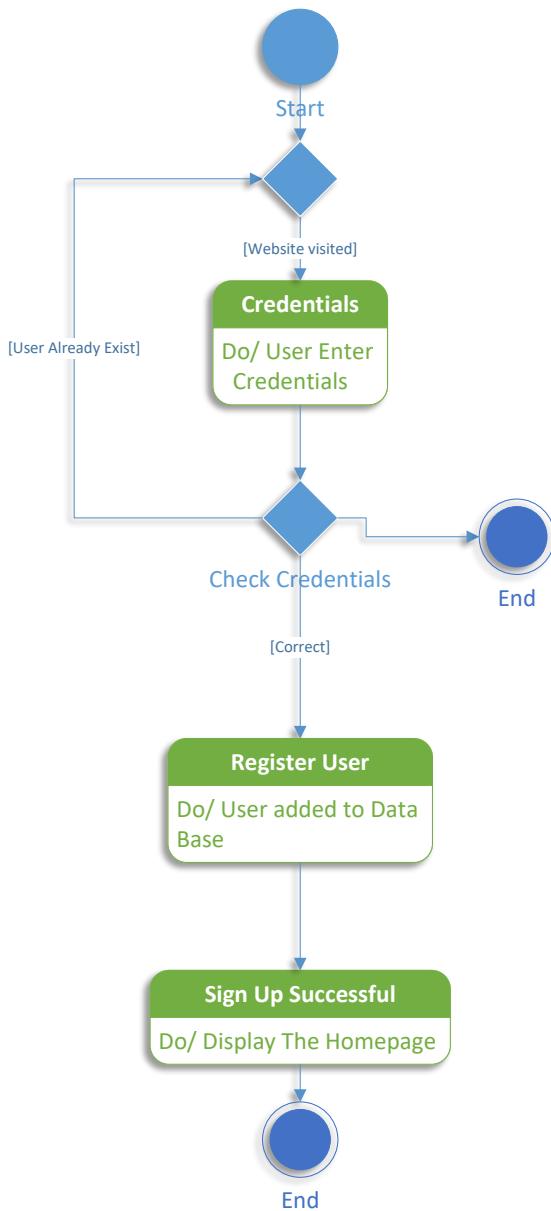


Figure 2.45: State Diagram: SignUp (User)

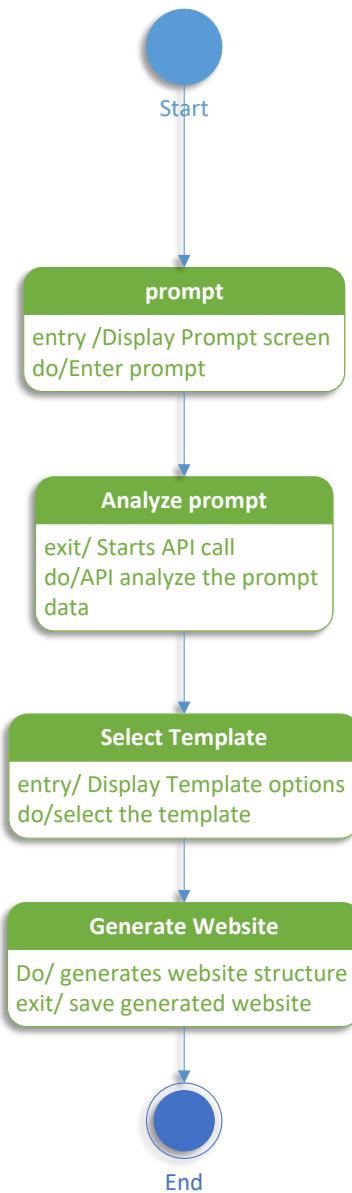


Figure 2.46: State Diagram: Rendering of Prompt (User)

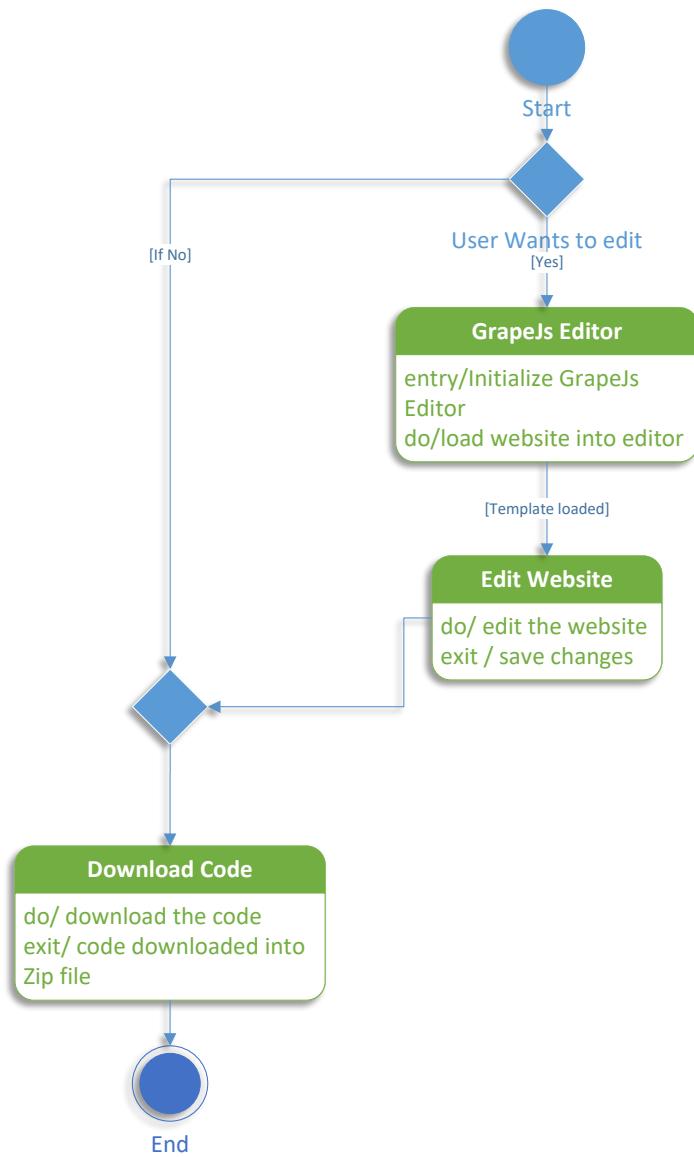


Figure 2.47: State Diagram: Download Code (User)

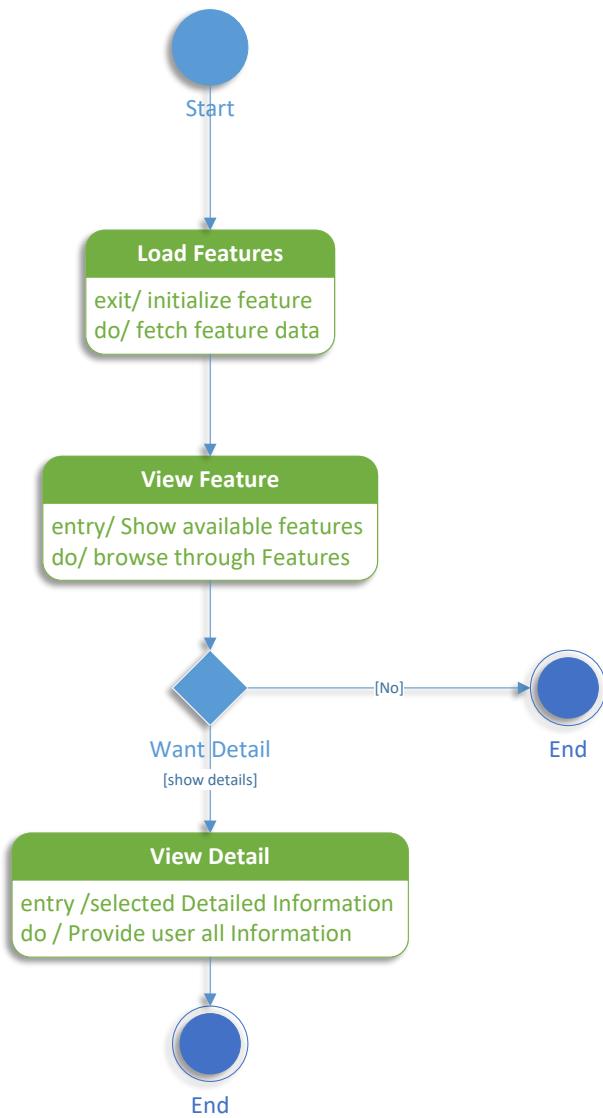


Figure 2.48: State Diagram: Editing with GrapeJS (User)

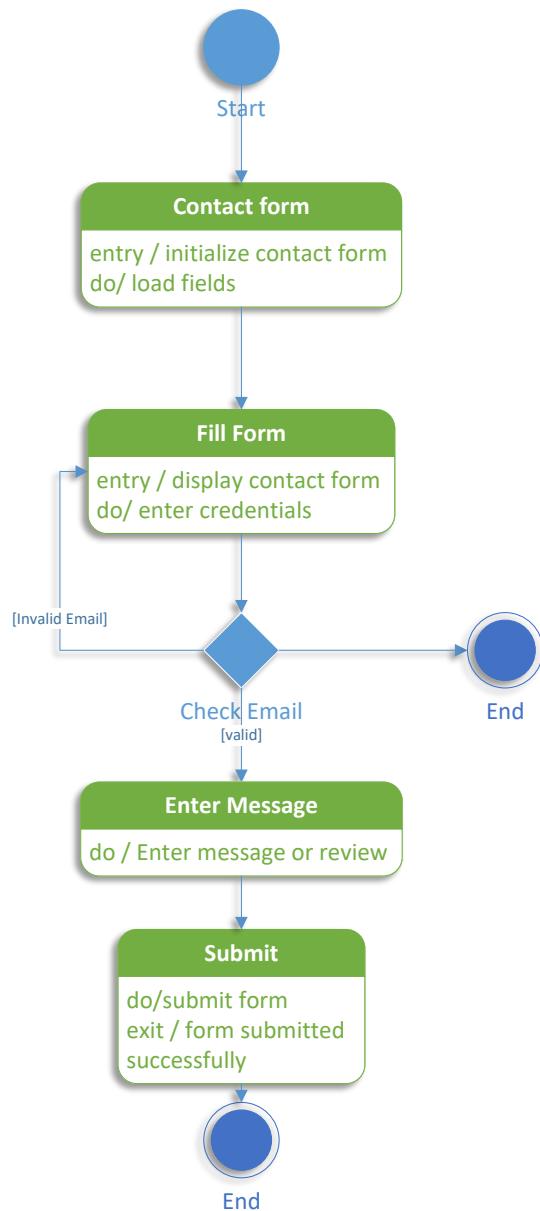


Figure 2.49: State Diagram: Contact (User)

2.2.3 Sequence Diagrams

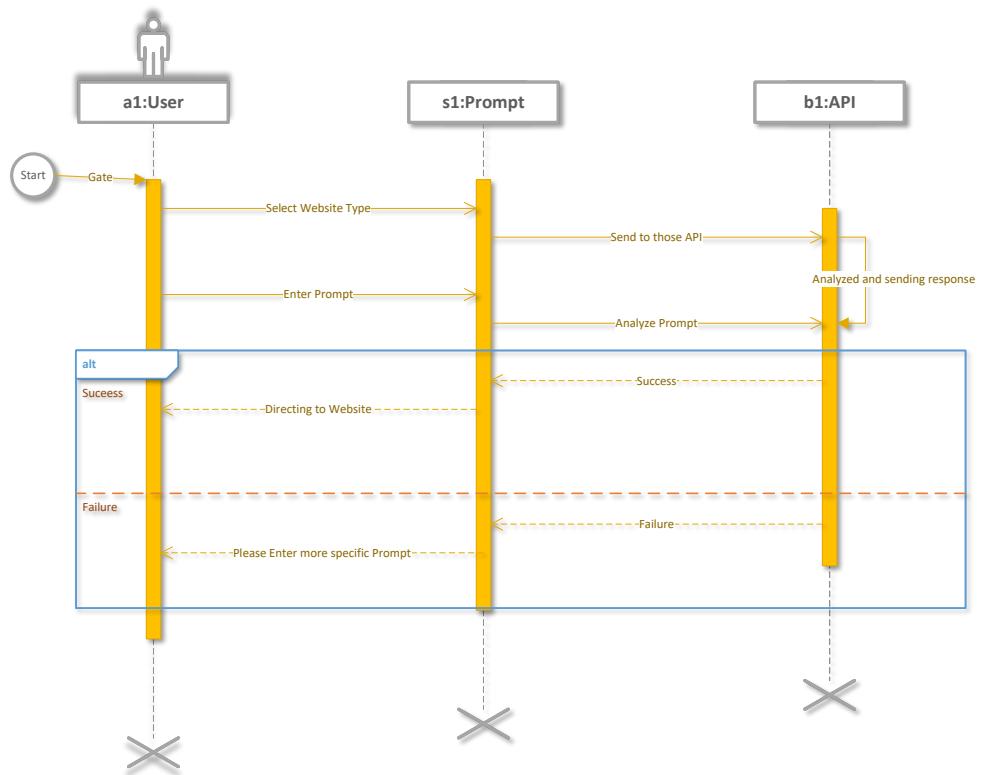


Figure 2.50: Sequence Diagram: Prompt (User)

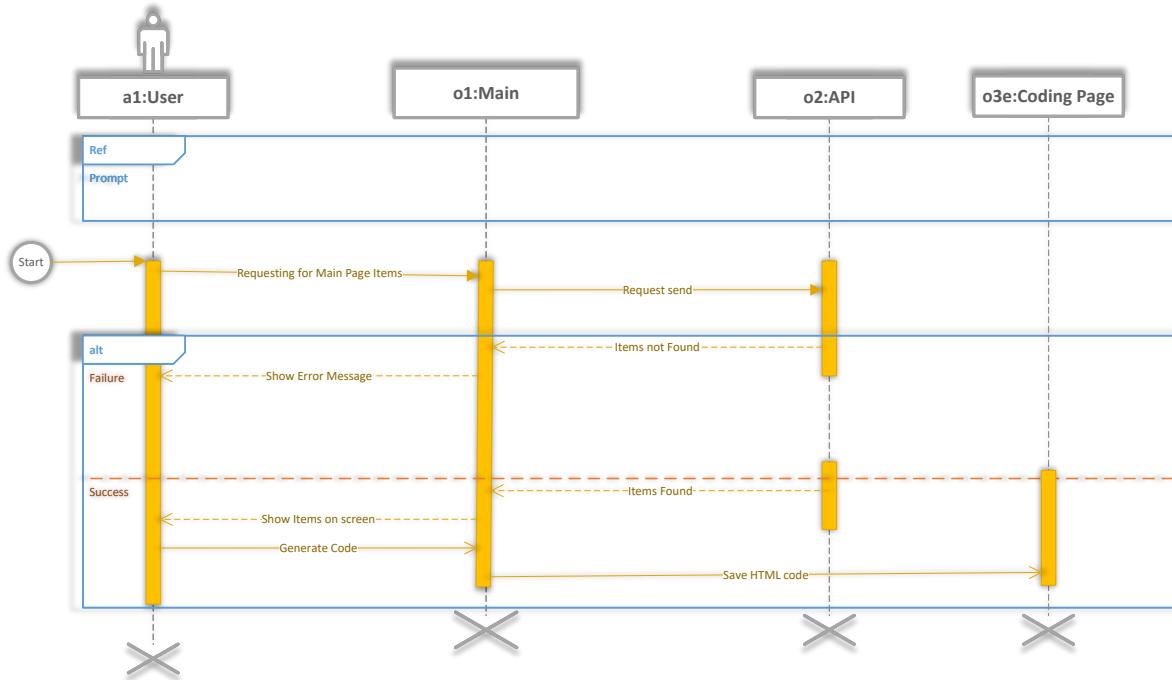


Figure 2.51: Sequence Diagram: Main of E-commerce, Blogs And Portfolio a (User)

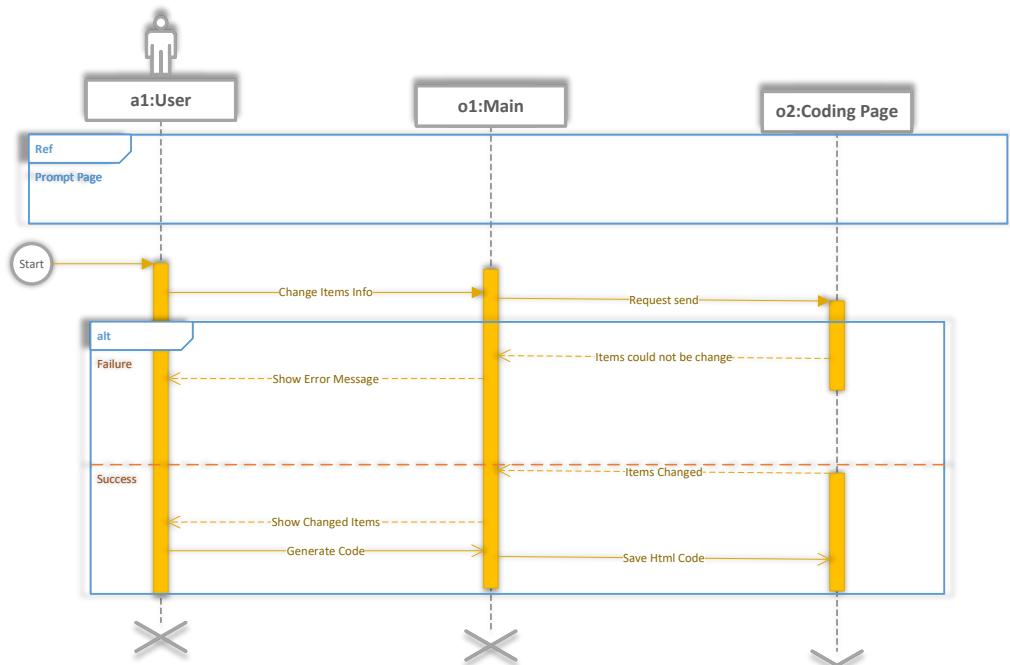


Figure 2.52: Sequence Diagram: Main of E-commerce b (User)

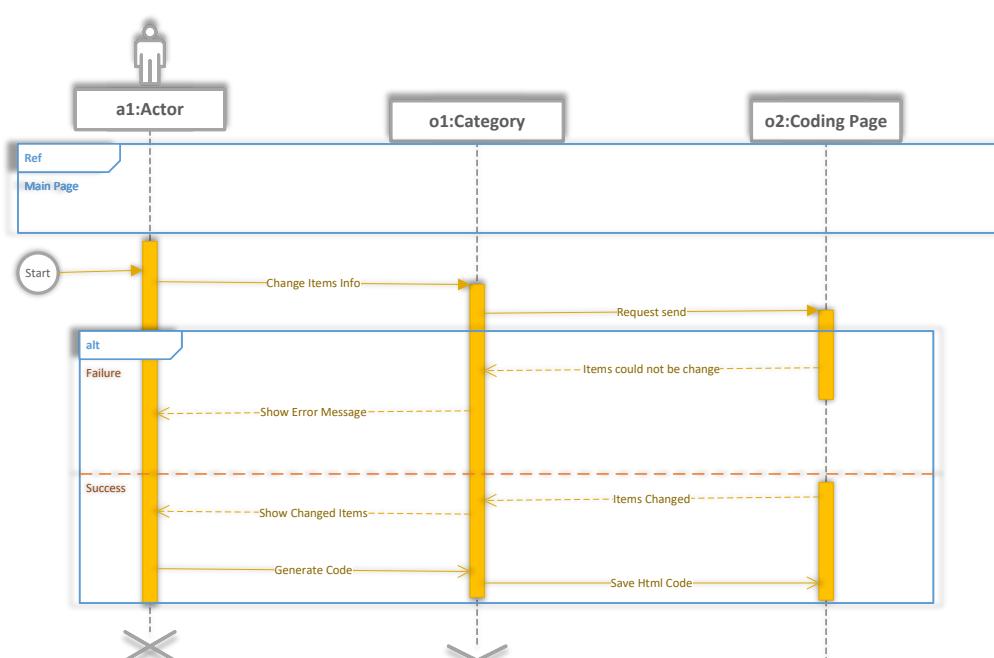


Figure 2.53: Sequence Diagram: Category of E-commerce a (User)

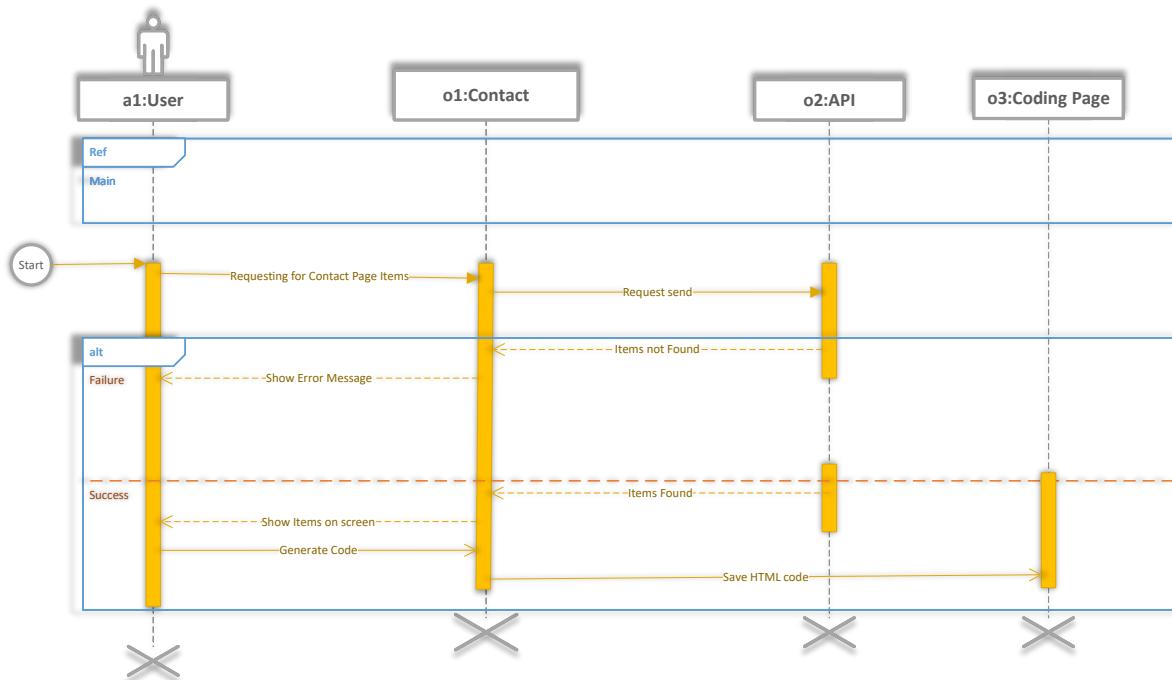


Figure 2.54: Sequence Diagram: Category of E-commerce b (User)

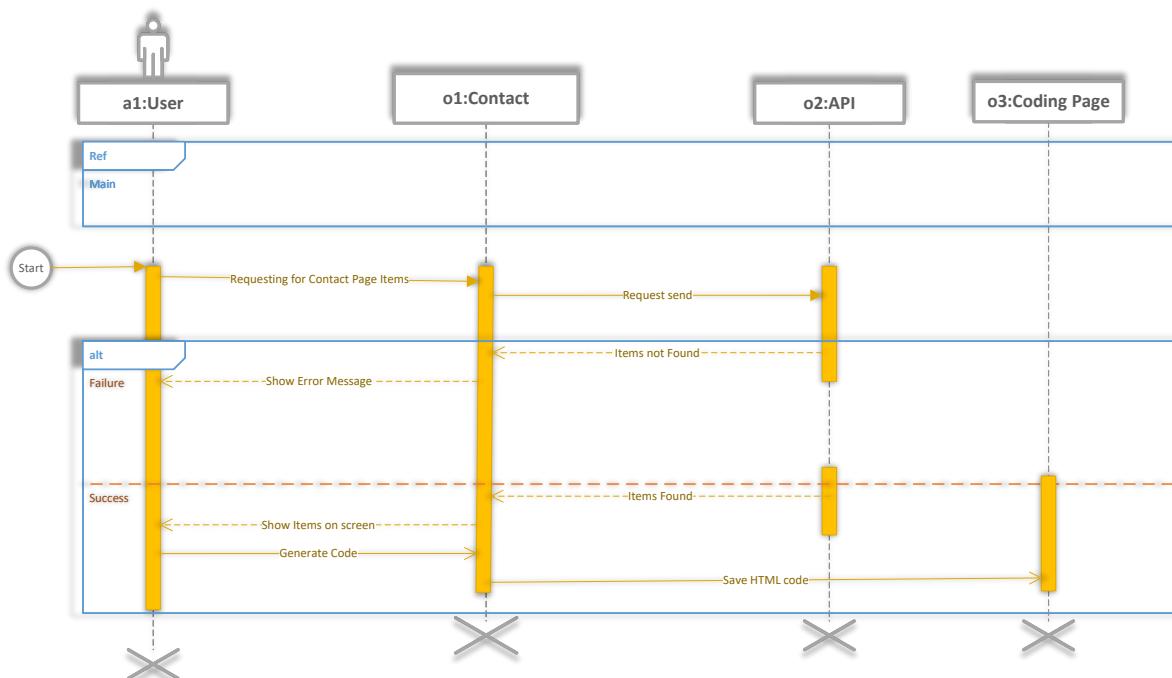


Figure 2.55: Sequence Diagram: Contact of E-commerce, Blogs and Portfolio a (User)

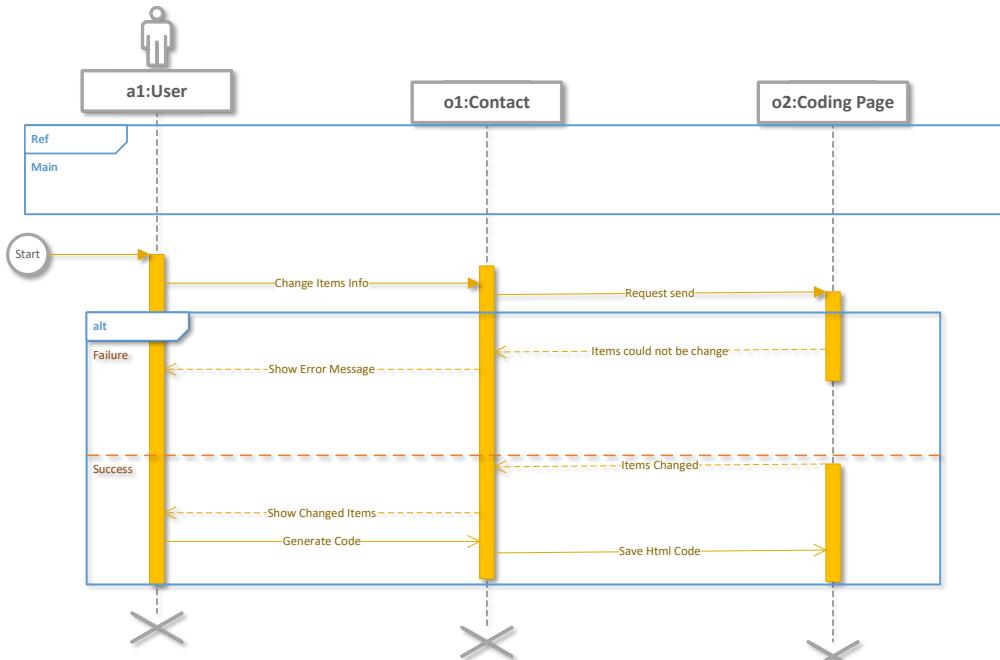


Figure 2.56: Sequence Diagram: Contact of E-commerce, Blogs and Portfolio b (User)

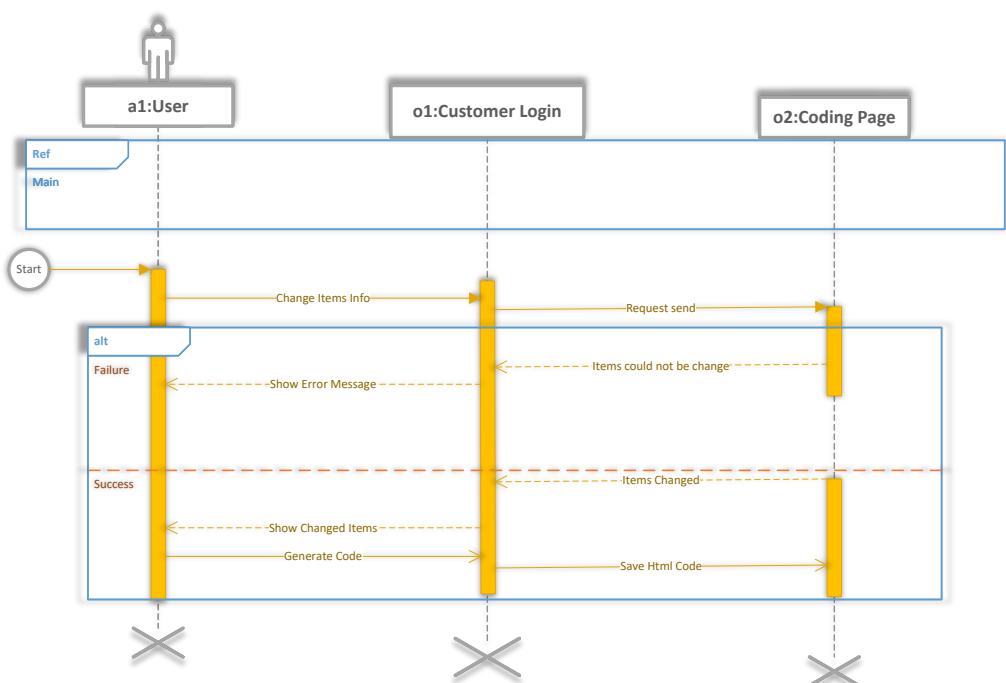


Figure 2.57: Sequence Diagram: Customer login of E-commerce a (User)

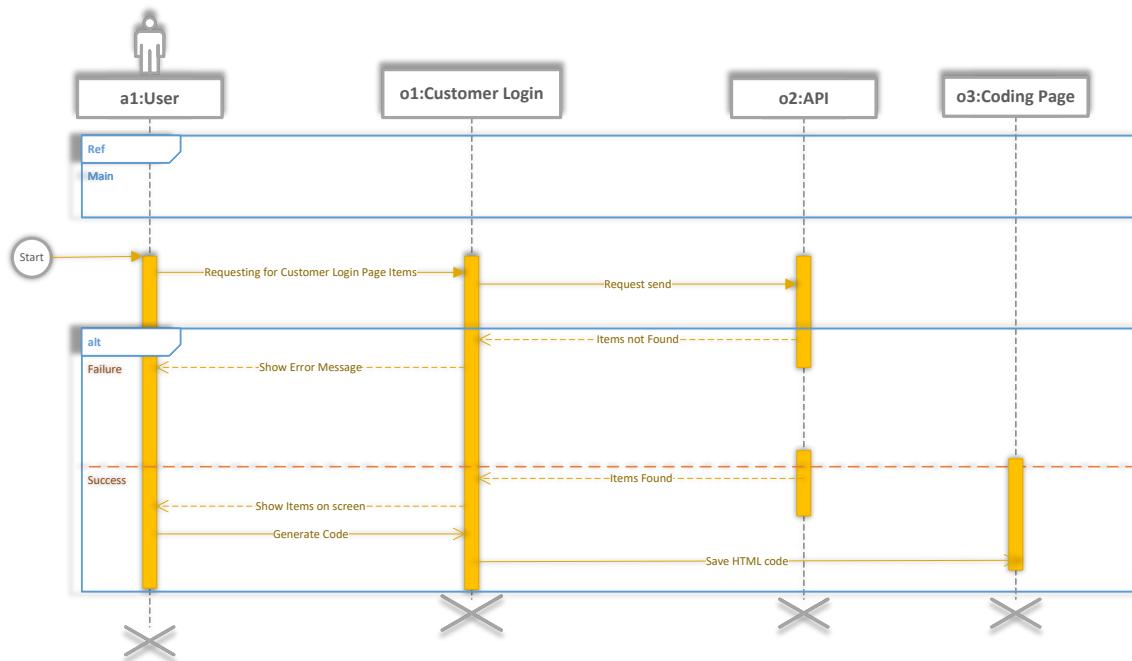


Figure 2.58: Sequence Diagram: Customer Login of E-commerce b (User)

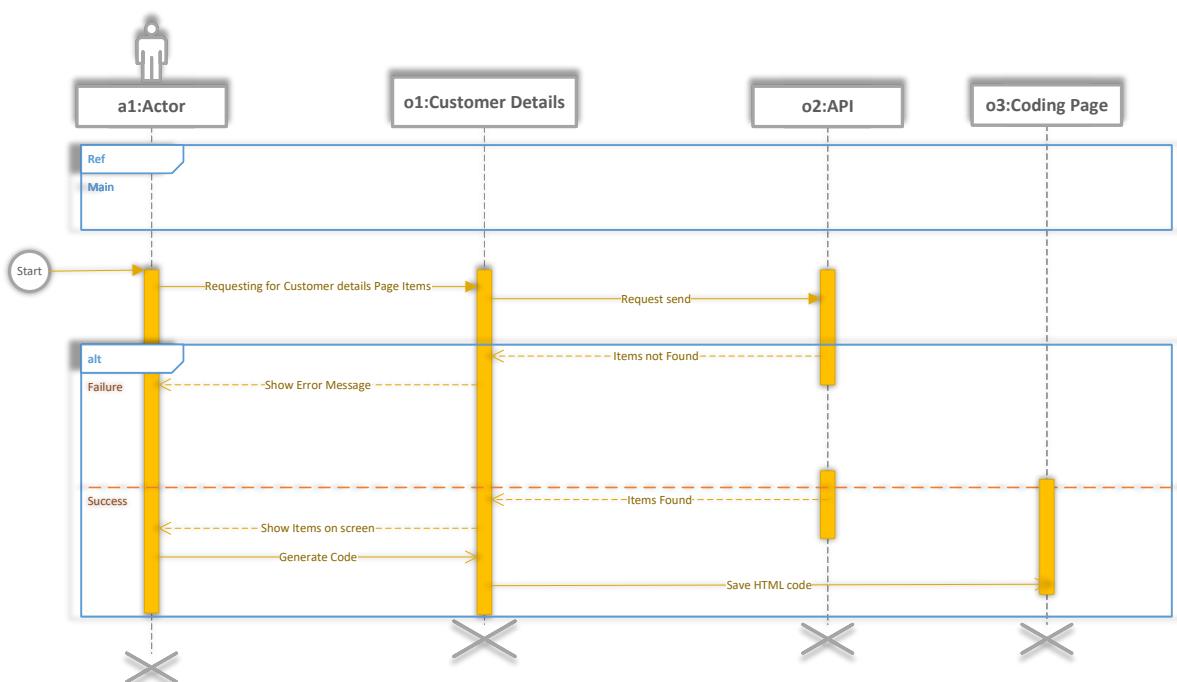


Figure 2.59: Sequence Diagram: Customer Details of E-commerce a (User)

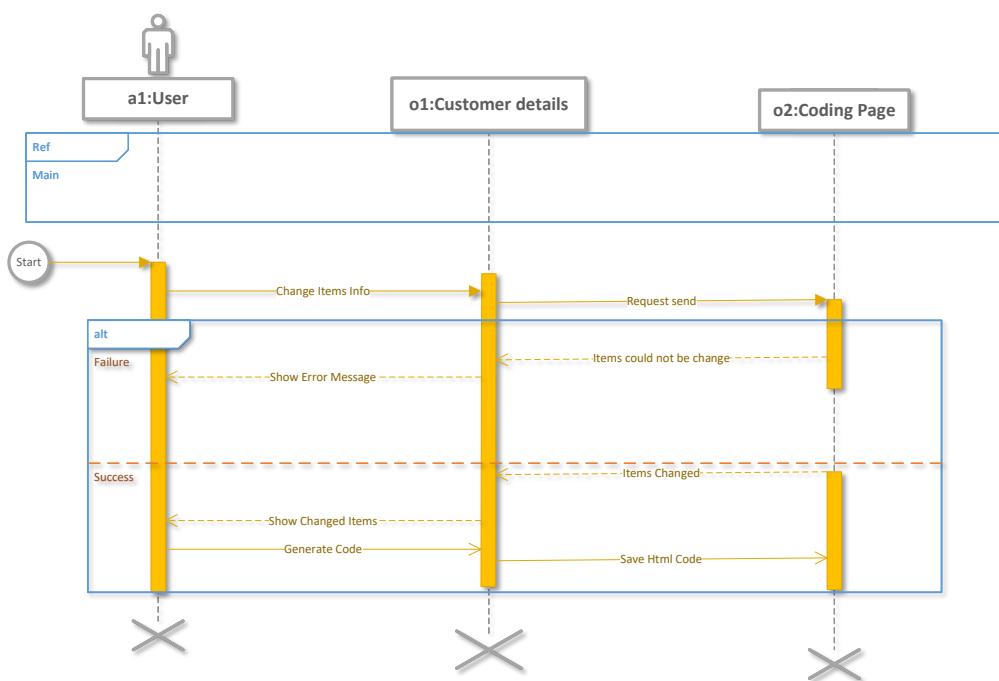


Figure 2.60: Sequence Diagram: Customer Details of E-commerce b (User)

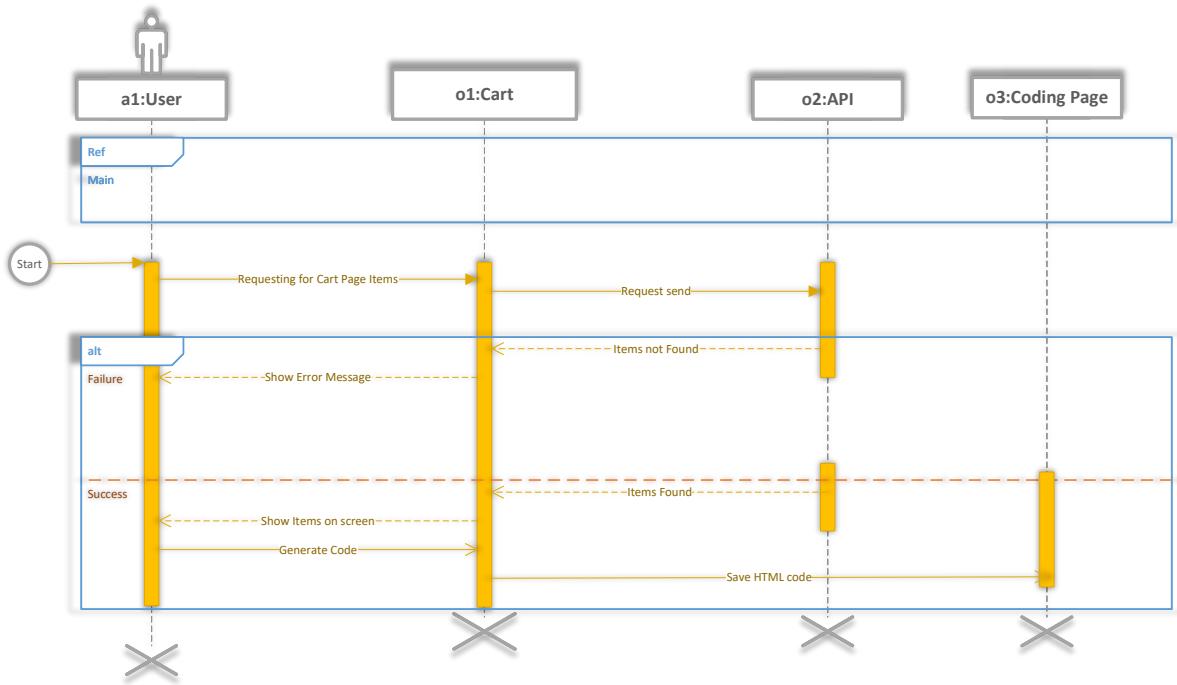


Figure 2.61: Sequence Diagram: Customer Details of E-commerce a (User)

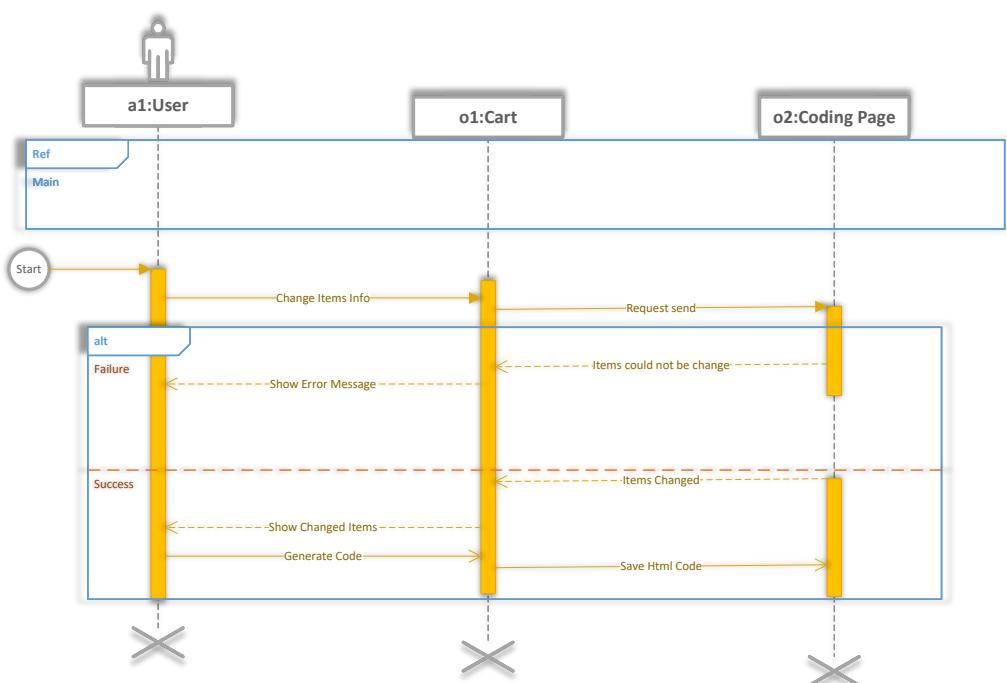


Figure 2.62: Sequence Diagram: Customer Details of E-commerce b (User)

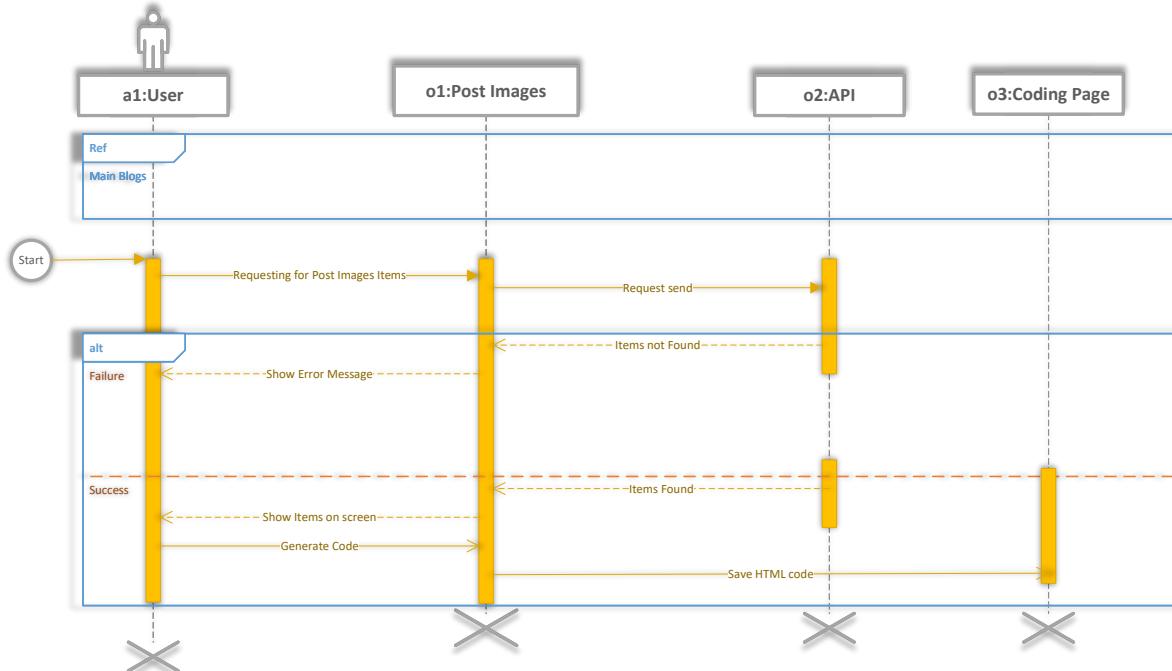


Figure 2.63: Sequence Diagram: Post Images of Blogs a (User)

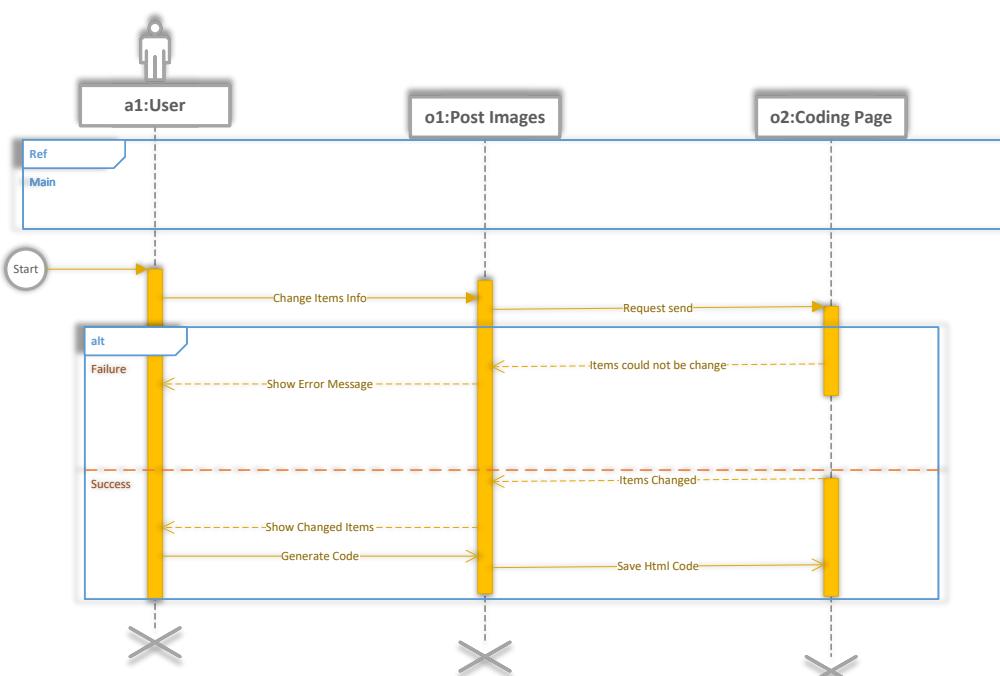


Figure 2.64: Sequence Diagram: Post Images of Blogs b (User)

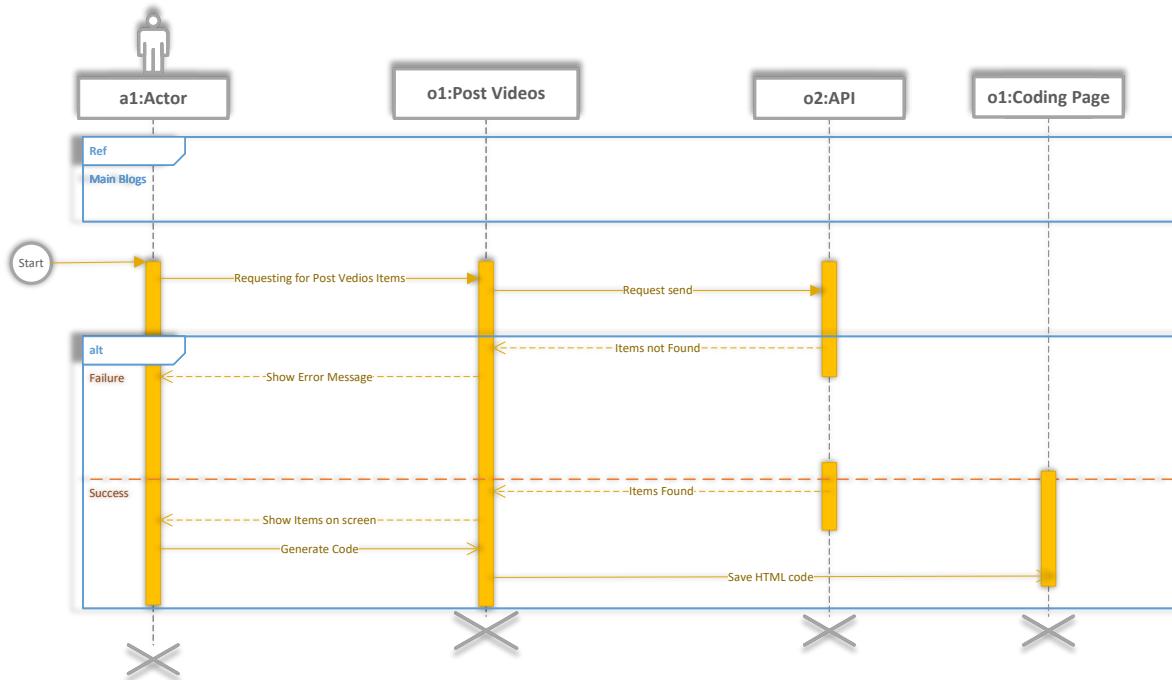


Figure 2.65: Sequence Diagram: Post Videos of Blogs a (User)

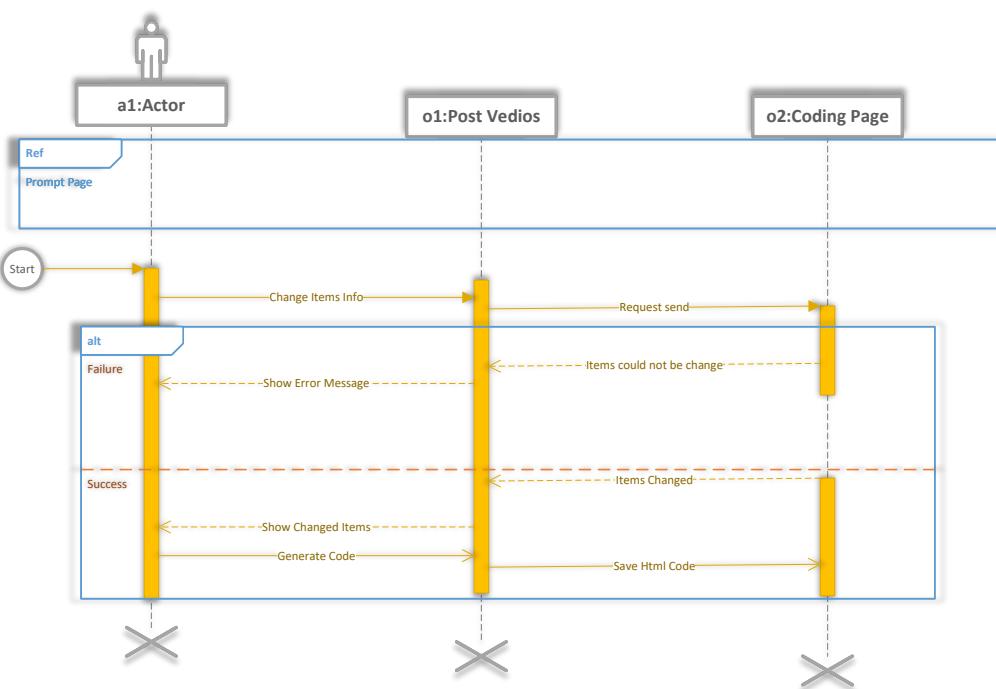


Figure 2.66: Sequence Diagram: Post Videos of Blogs b (User)

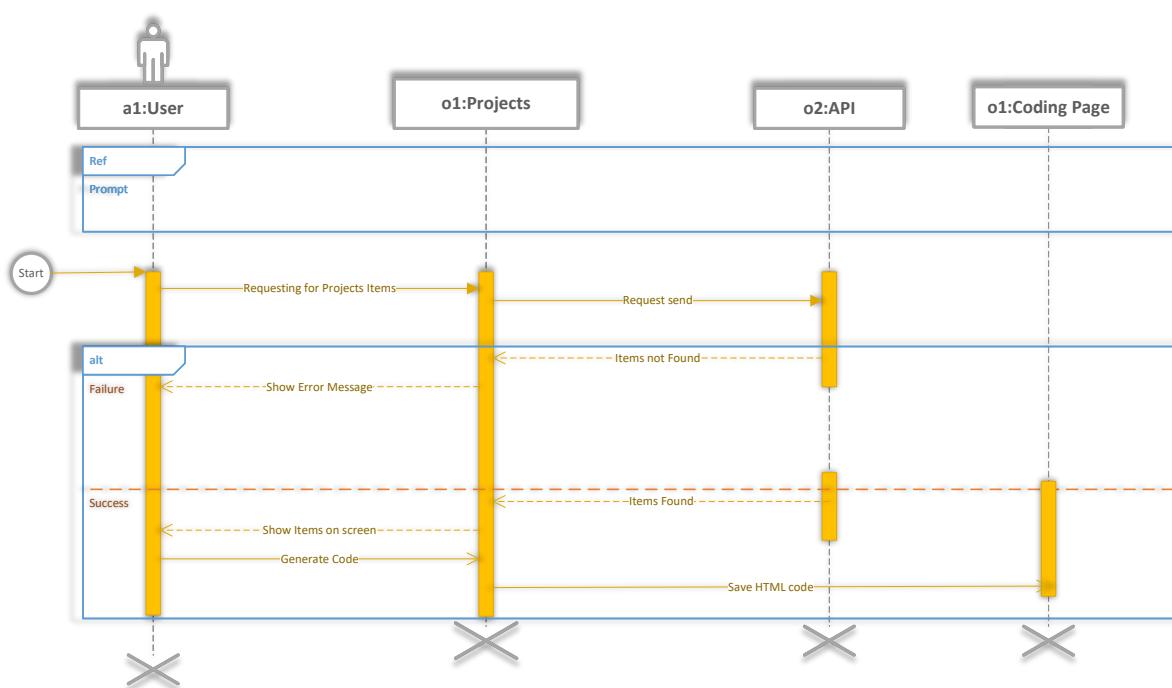


Figure 2.67: Sequence Diagram: Projects of Portfolio a (User)

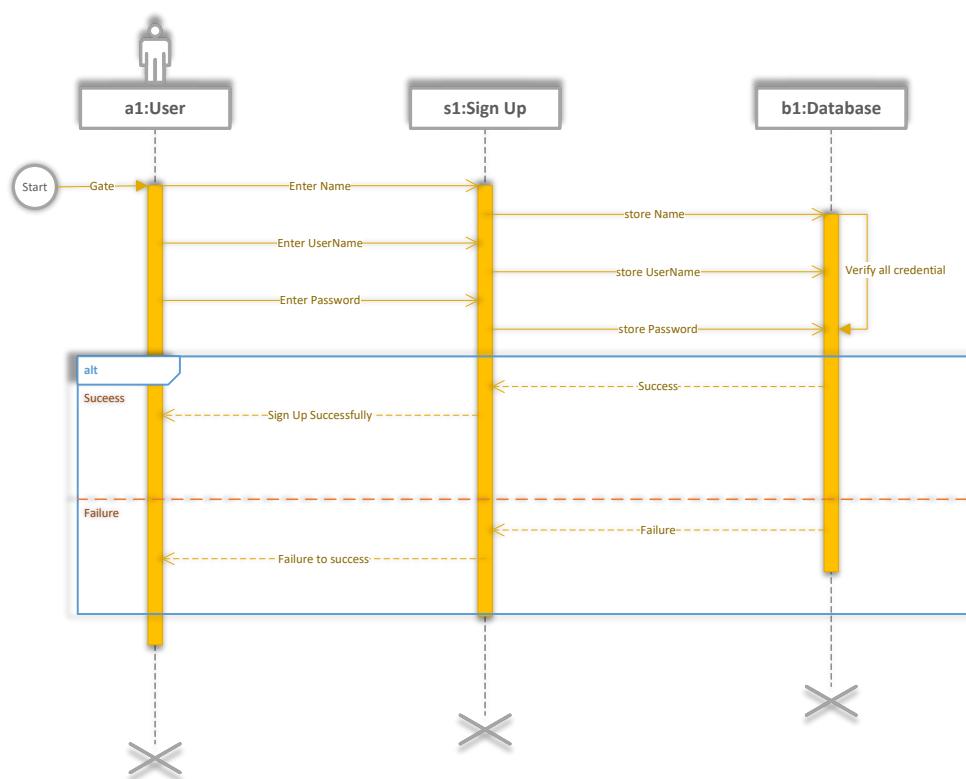


Figure 2.68: Sequence Diagram: SignUp (User)

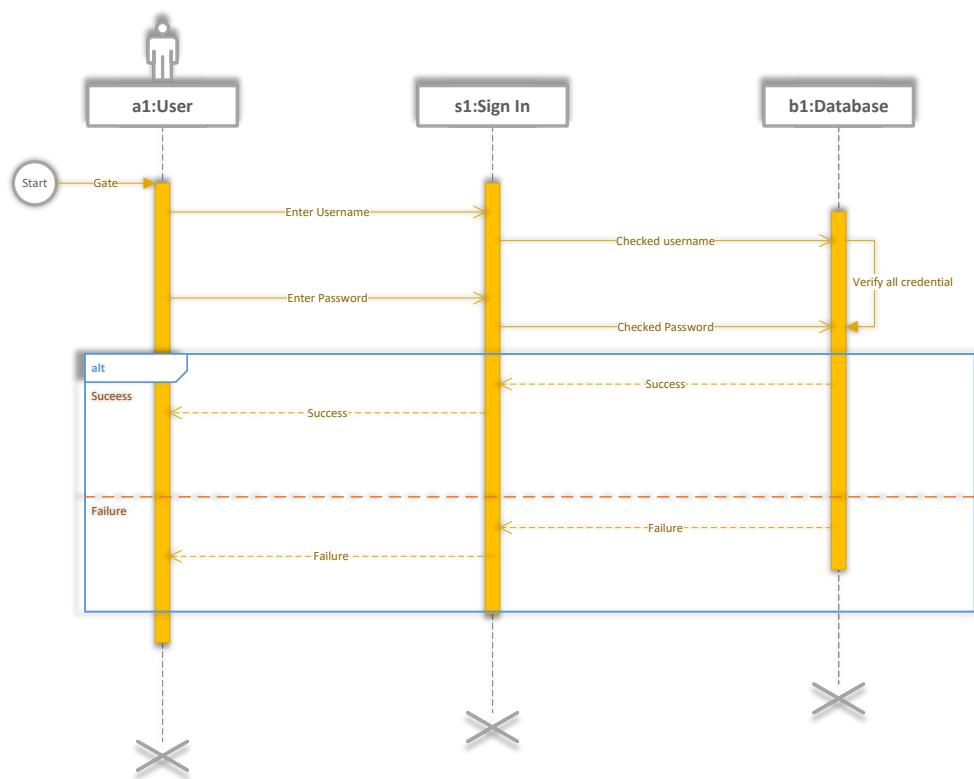


Figure 2.69: Sequence Diagram: SignIn (User)

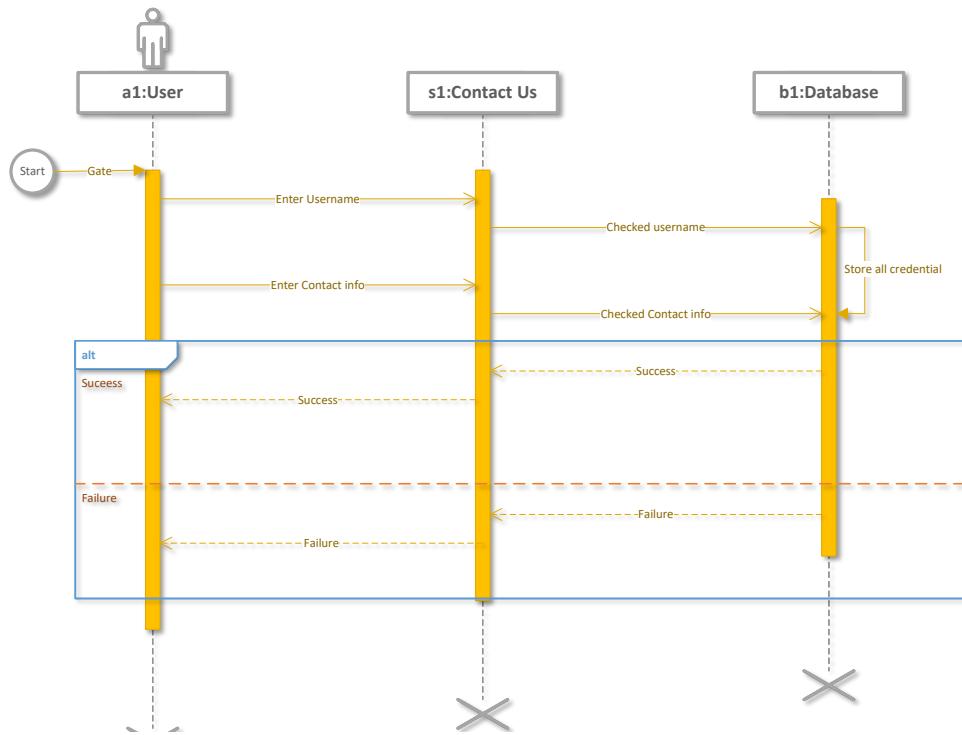


Figure 2.70: Sequence Diagram: Contact Us (User)

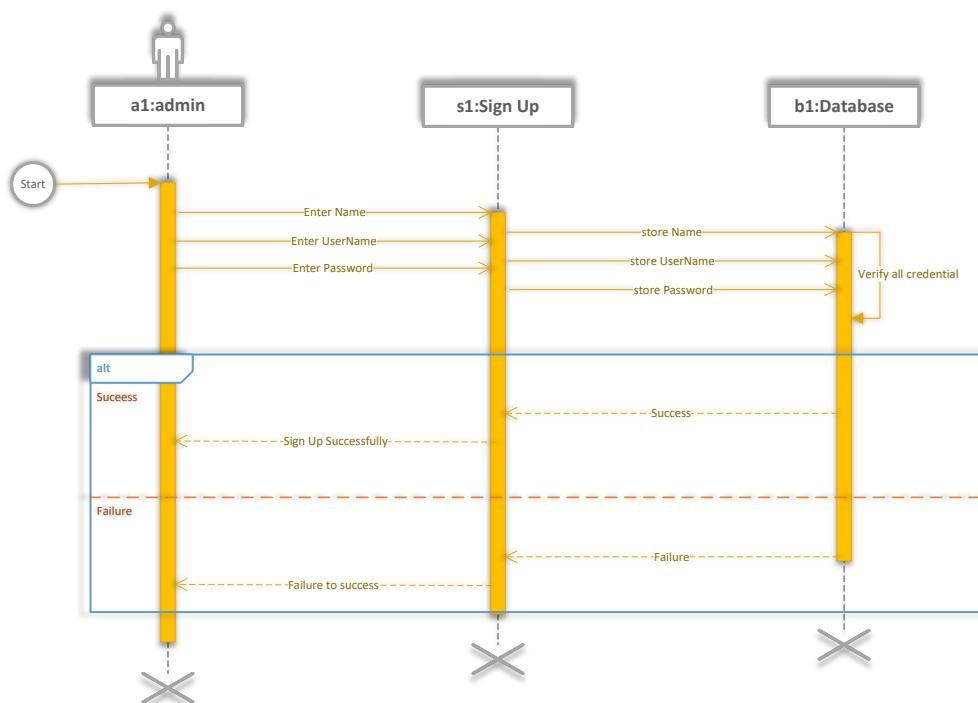


Figure 2.71: Sequence Diagram: SignUp (Admin)

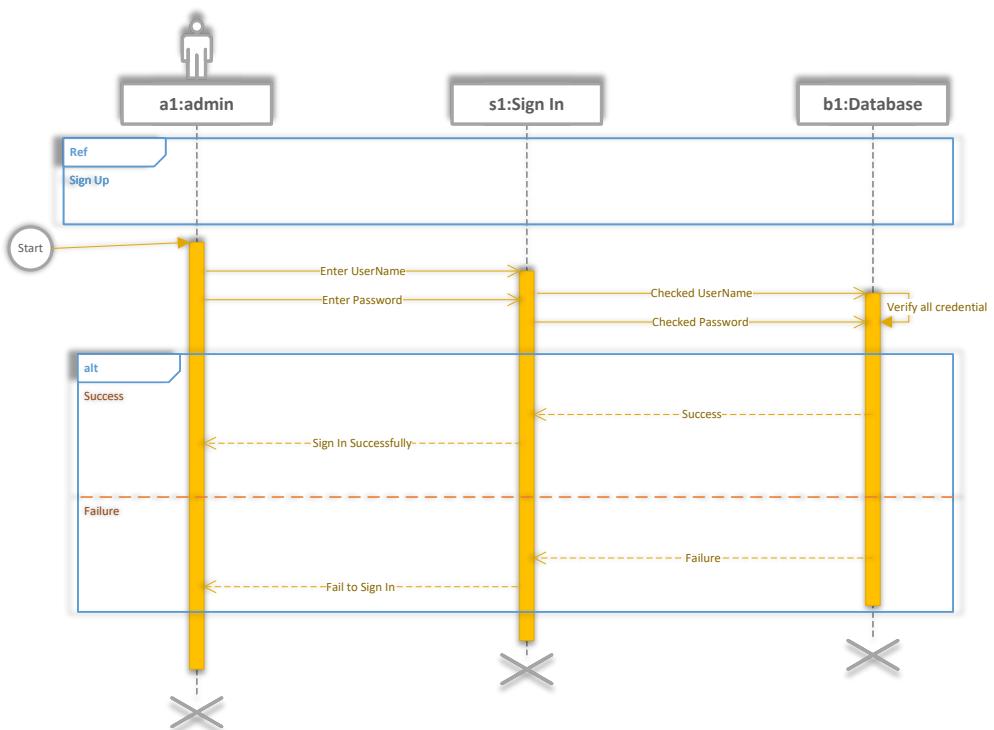


Figure 2.72: Sequence Diagram: SignIn (Admin)

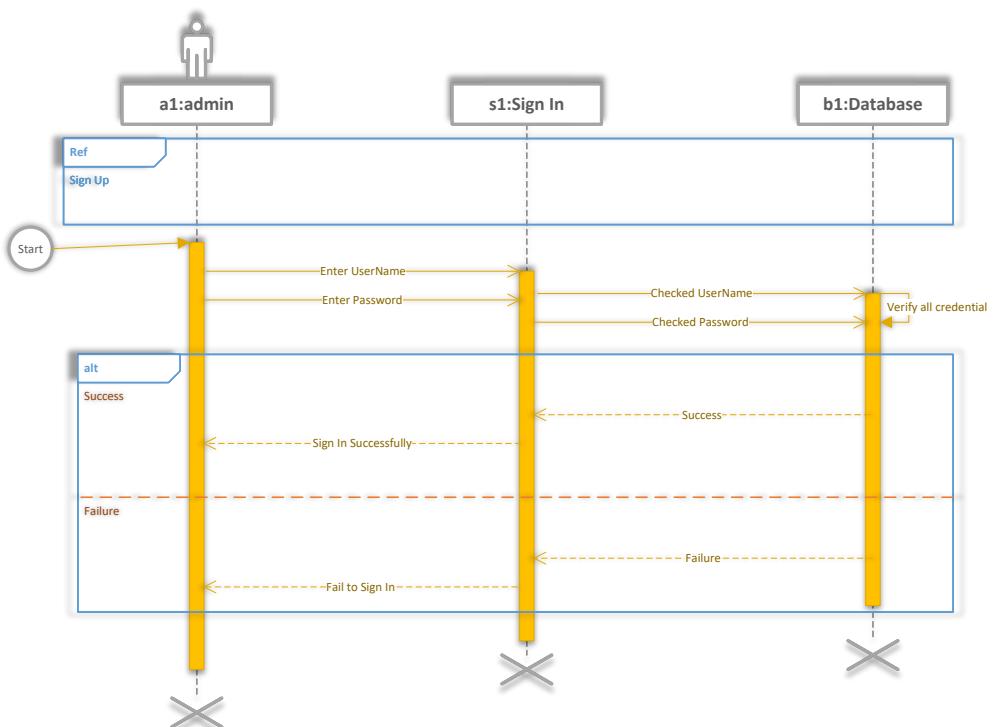


Figure 2.73: Sequence Diagram: Manage Template (Admin)

2.2.4 Collaboration Diagram

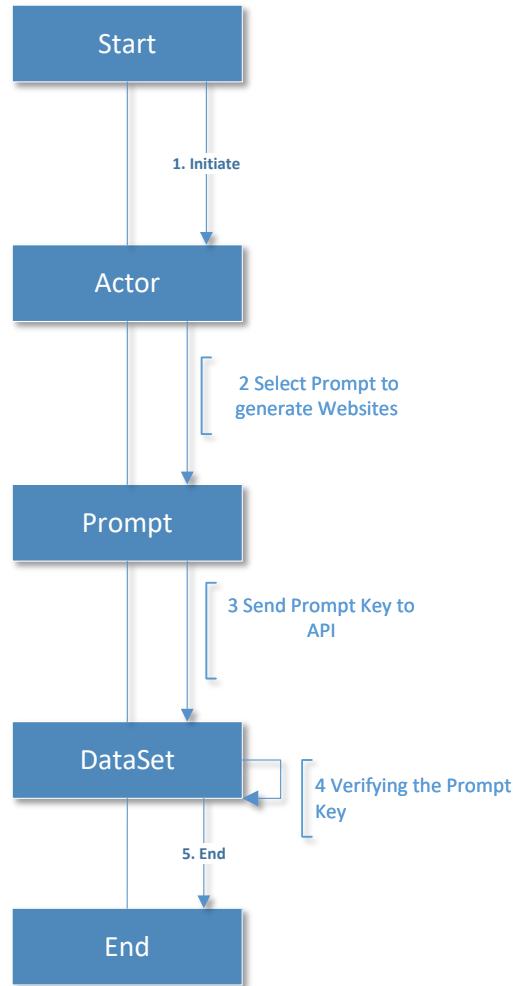


Figure 2.74: Collaboration Diagram: Prompt (User)

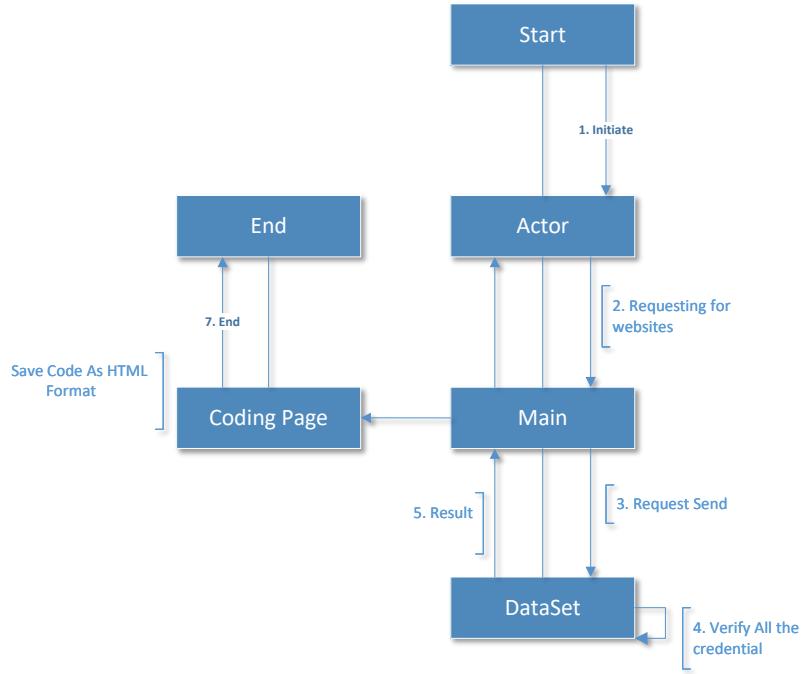


Figure 2.75: Collaboration Diagram: Main of E commerce,Blogs and Portfolio a (User)

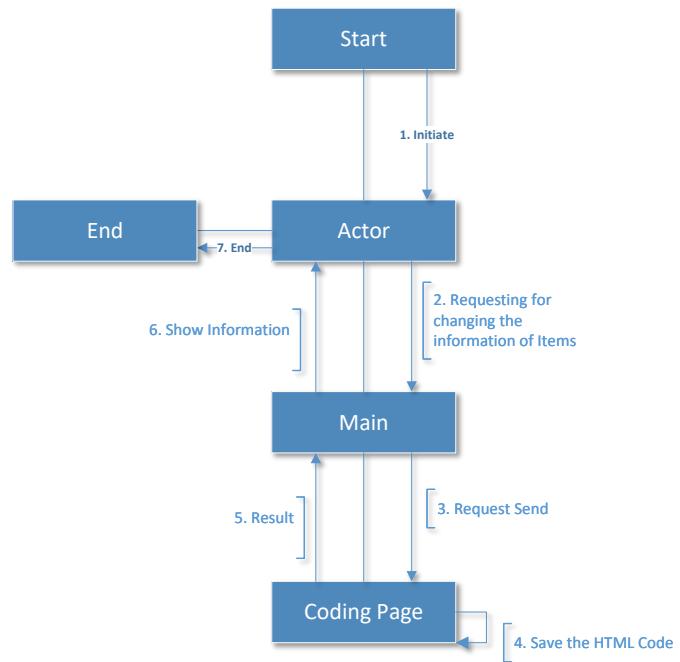


Figure 2.76: Collaboration Diagram: Main of E commerce,Blogs and Portfolio b (User)

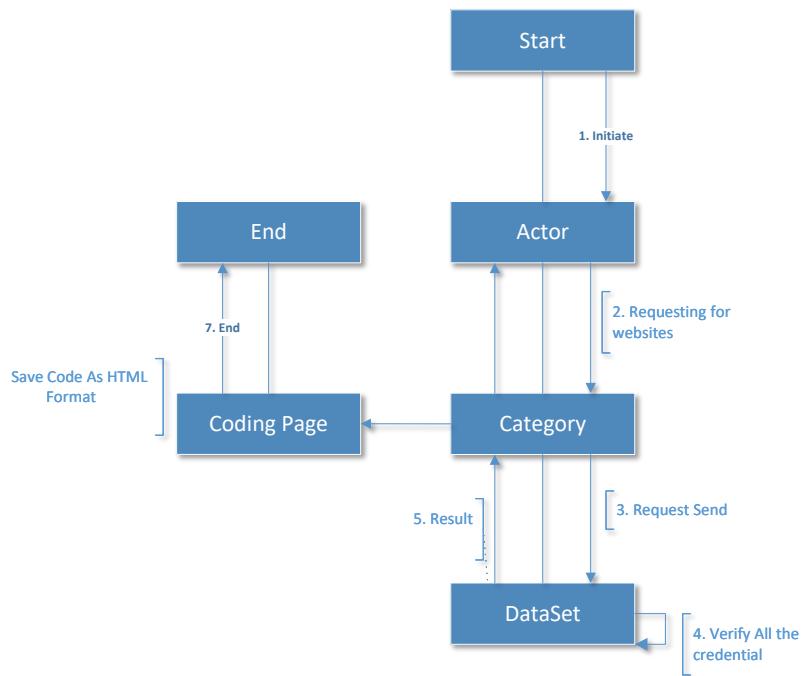


Figure 2.77: Collaboration Diagram: Category of E commerce,Blogs and Portfolio a (User)

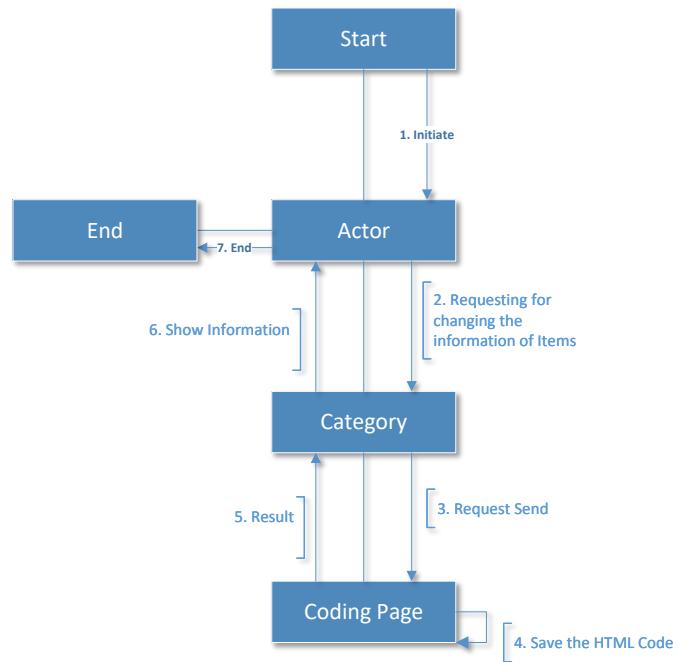


Figure 2.78: Collaboration Diagram: Category of E commerce,Blogs and Portfolio b (User)

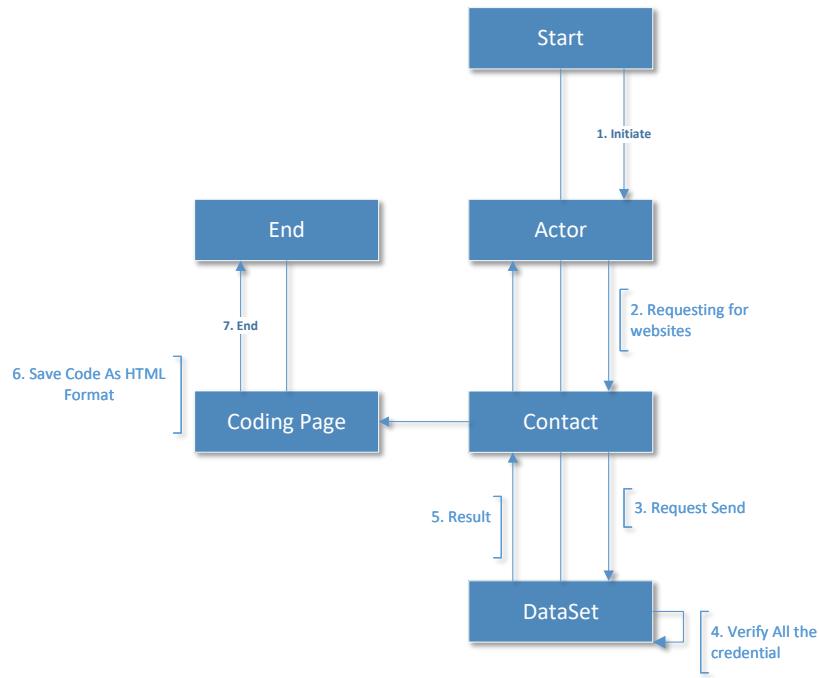


Figure 2.79: Collaboration Diagram: Contact of E commerce,Blogs and Portfolio a (User)

Figure 2.80:

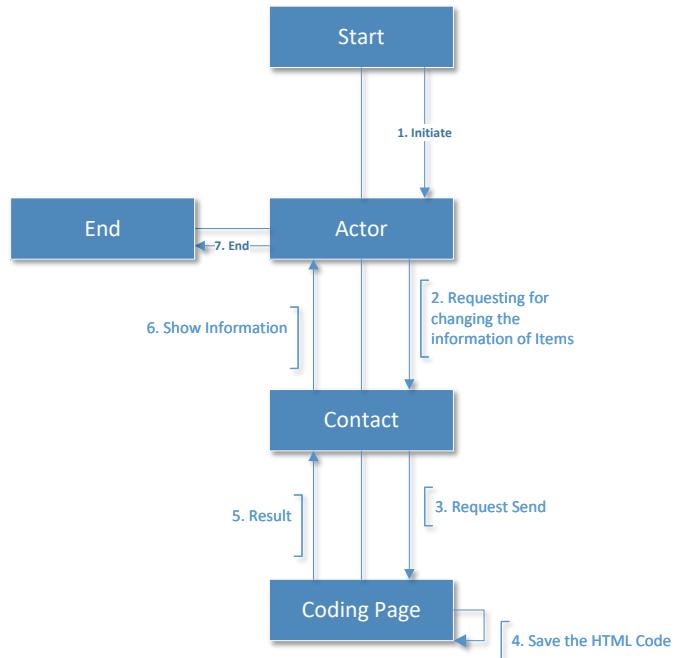


Figure 2.81: Collaboration Diagram: Contact of E commerce,Blogs and Portfolio b (User)

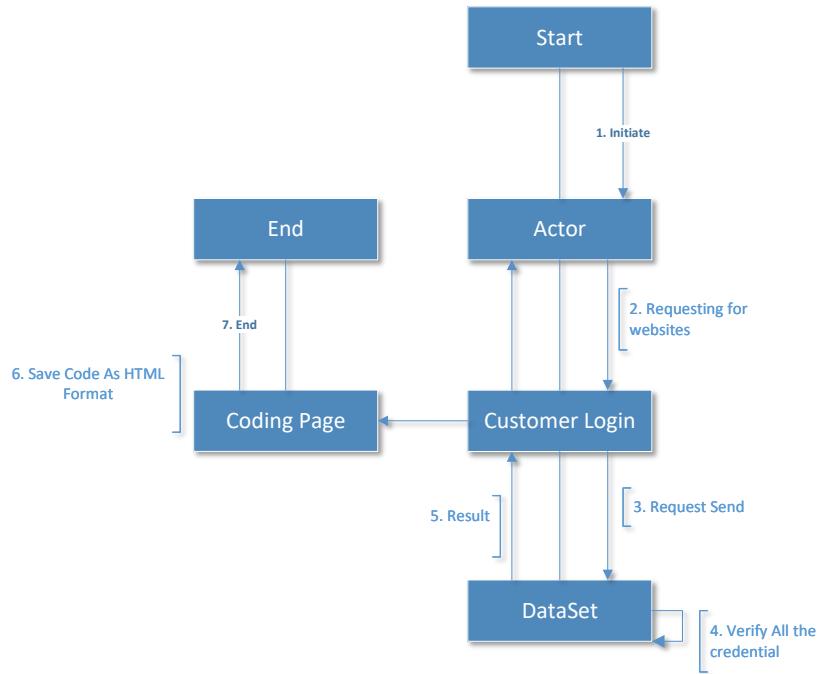


Figure 2.82: Collaboration Diagram: Customer login of E commerce a (User)

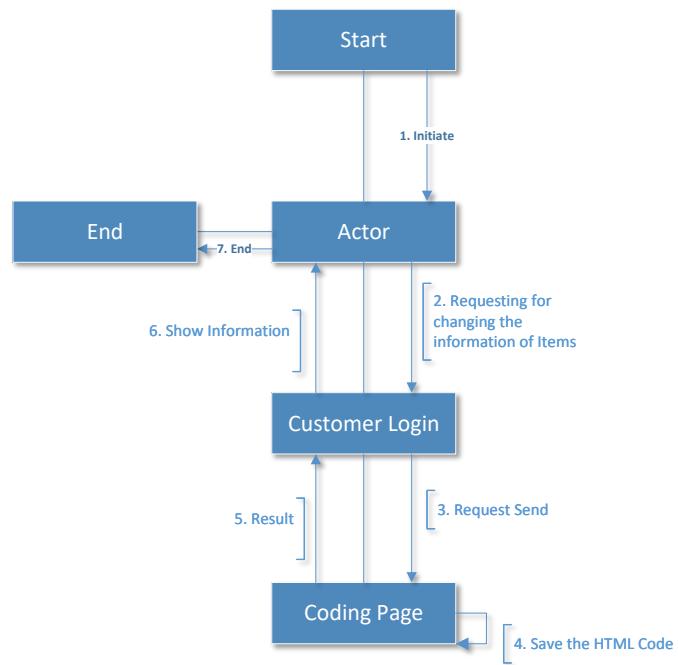


Figure 2.83: Collaboration Diagram: Customer login of E commerce a (User)

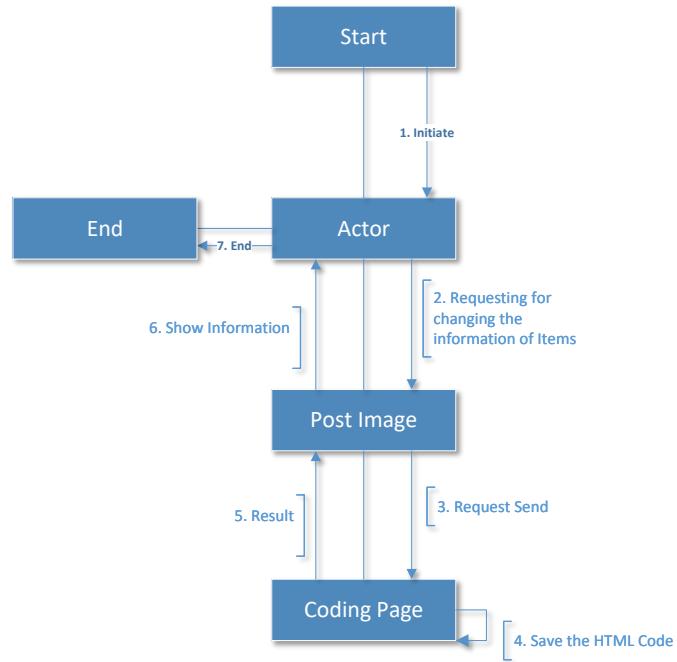


Figure 2.84: Collaboration Diagram: Post Image of E Blogs a (User)

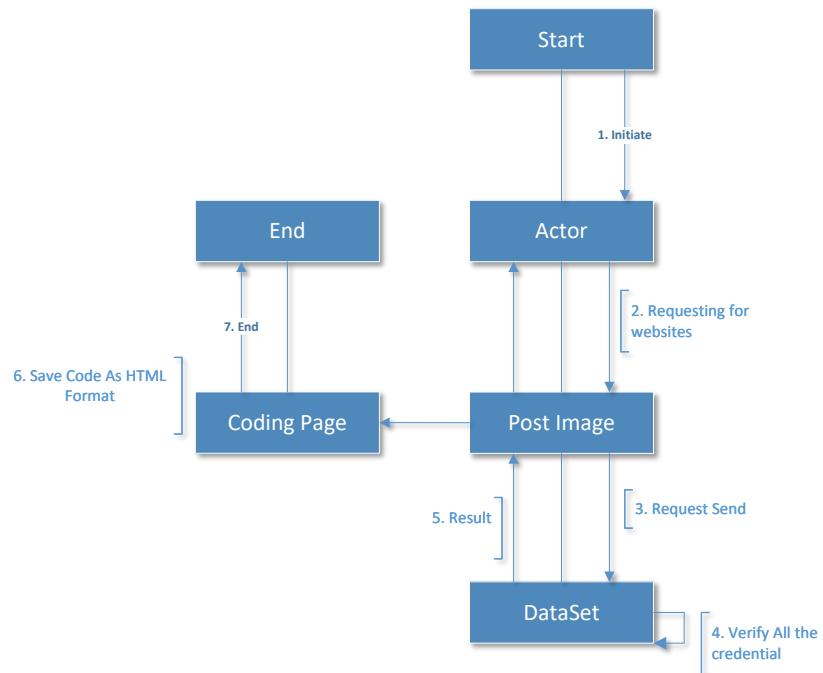


Figure 2.85: Collaboration Diagram: Post Image of Blogs b (User)

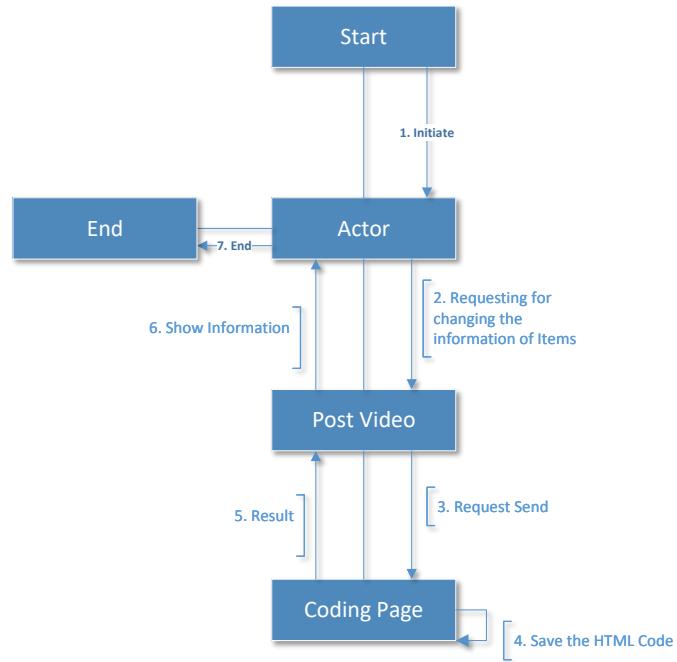


Figure 2.86: Collaboration Diagram: Post Videos of Blogs a (User)

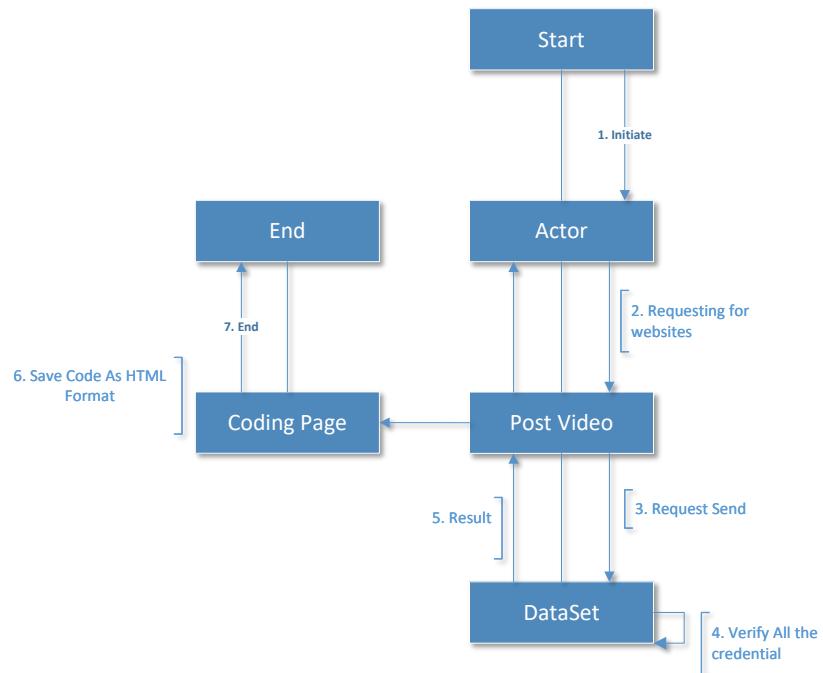


Figure 2.87: Collaboration Diagram: Post Videos of Blogs b (User)

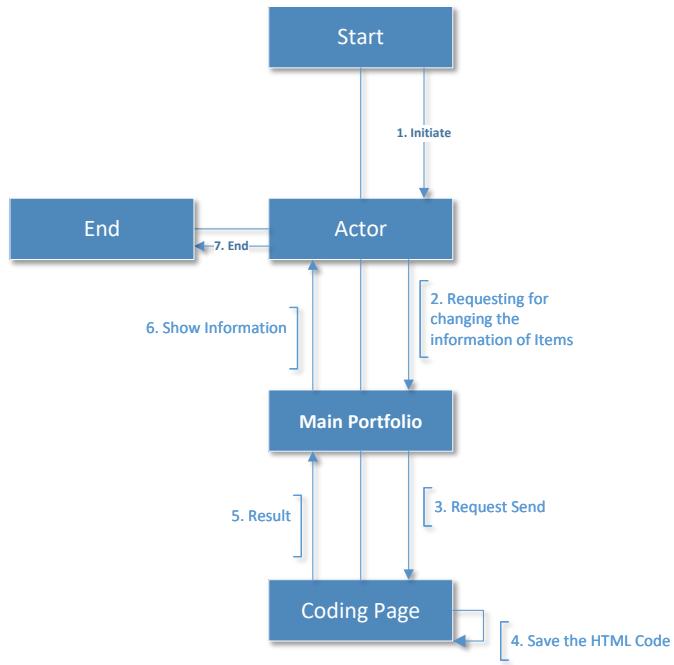


Figure 2.88: Deployment Diagram

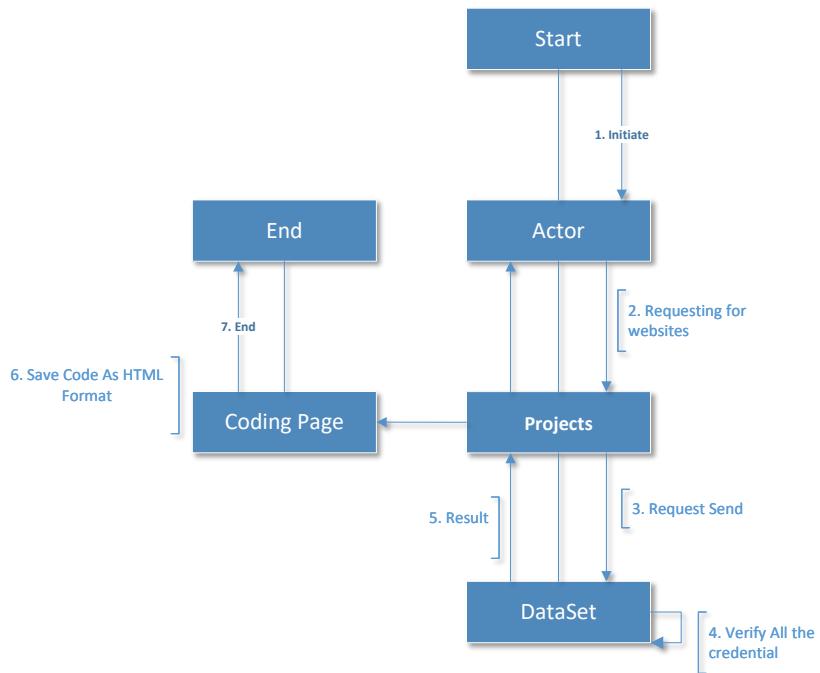


Figure 2.89: Collaboration Diagram: Projects of Portfolio a (User)

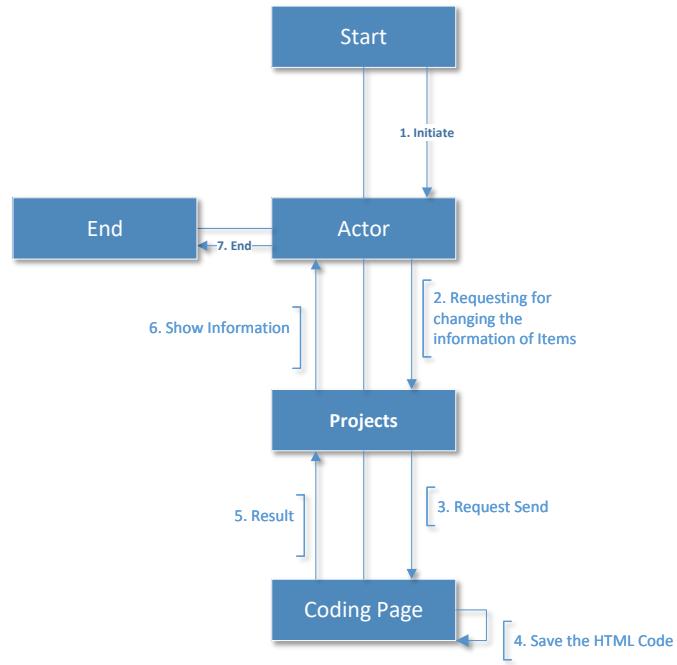


Figure 2.90: Collaboration Diagram: Projects of Portfolio b (User)

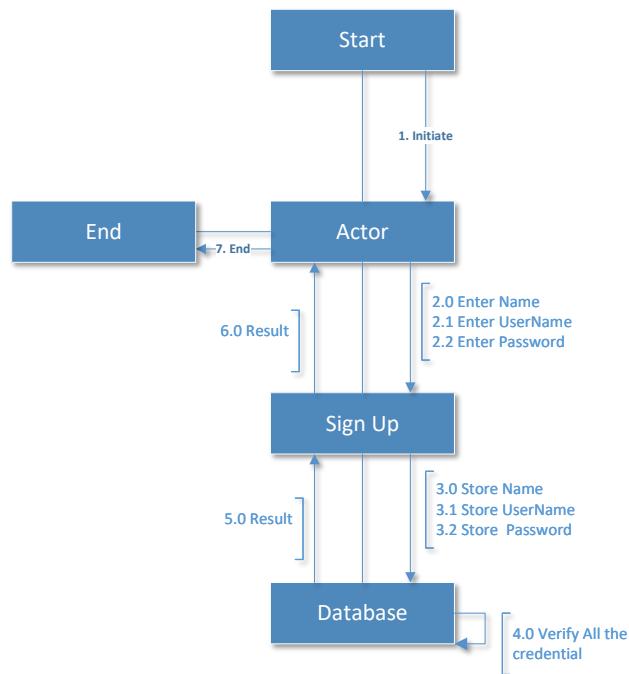


Figure 2.91: Collaboration Diagram: Sign Up (User)

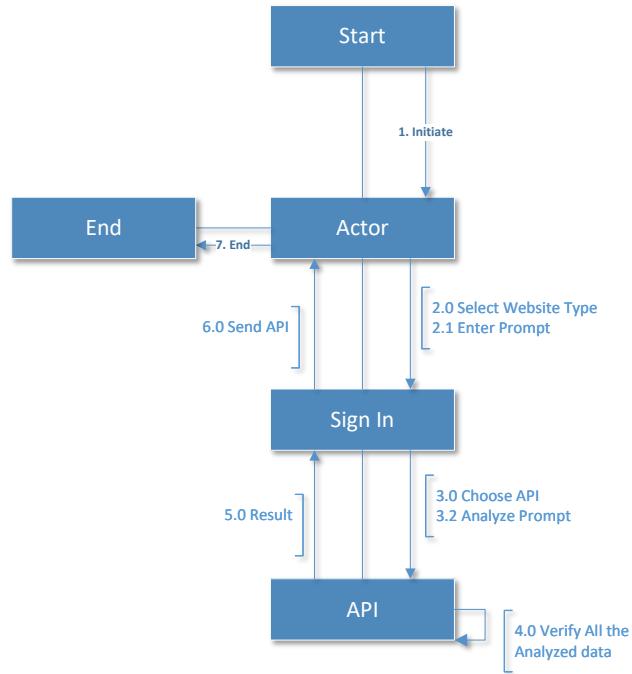


Figure 2.92: Collaboration Diagram: Sign In (User)

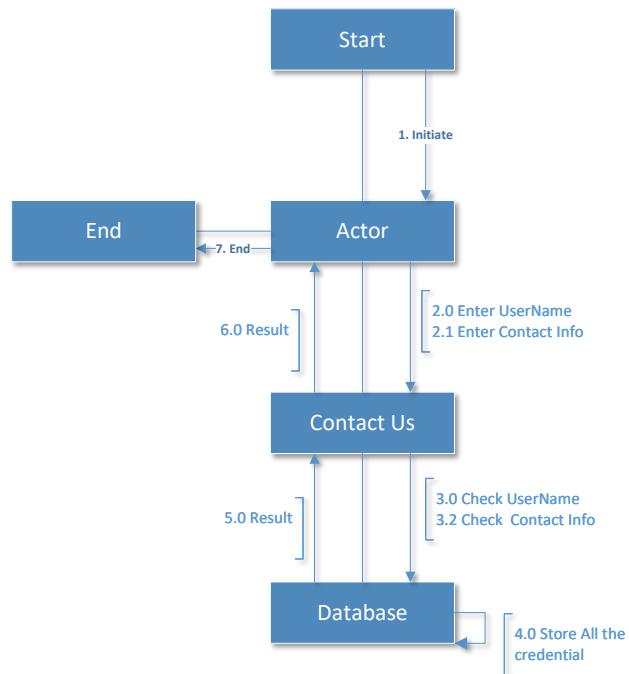


Figure 2.93: Collaboration Diagram: Contact Us (User)

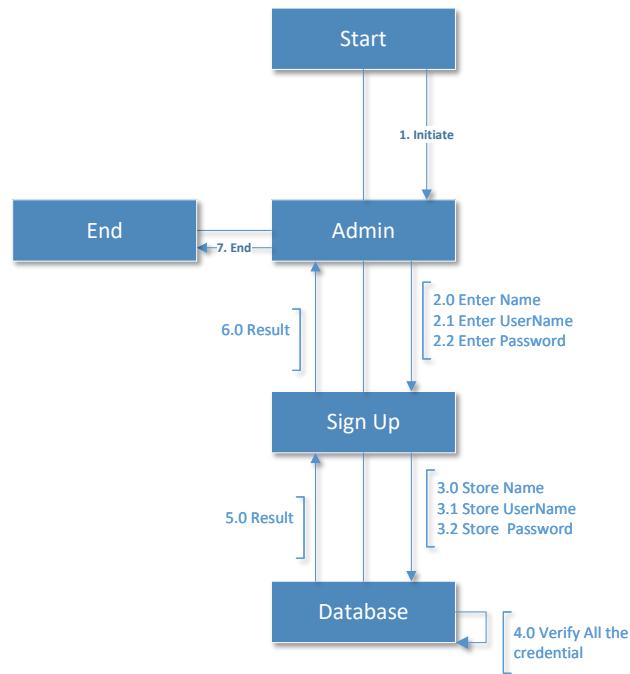


Figure 2.94: Collaboration Diagram: Sign Up (Admin)

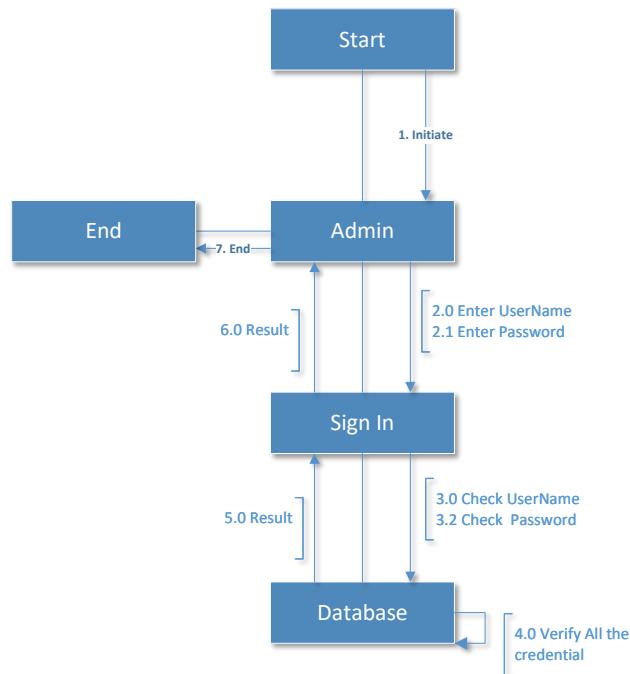


Figure 2.95: Collaboration Diagram: Sign In (Admin)

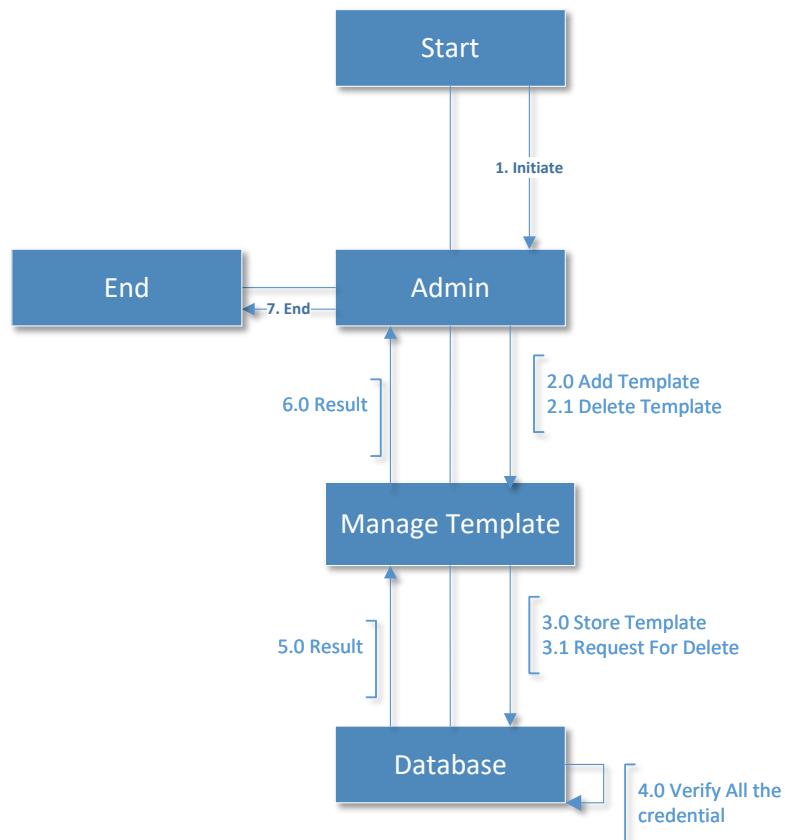


Figure 2.96: Collaboration Diagram: Manage Templates (Admin)

2.3 SYSTEM STRUCTURE DESIGN

2.3.1 Class Diagram

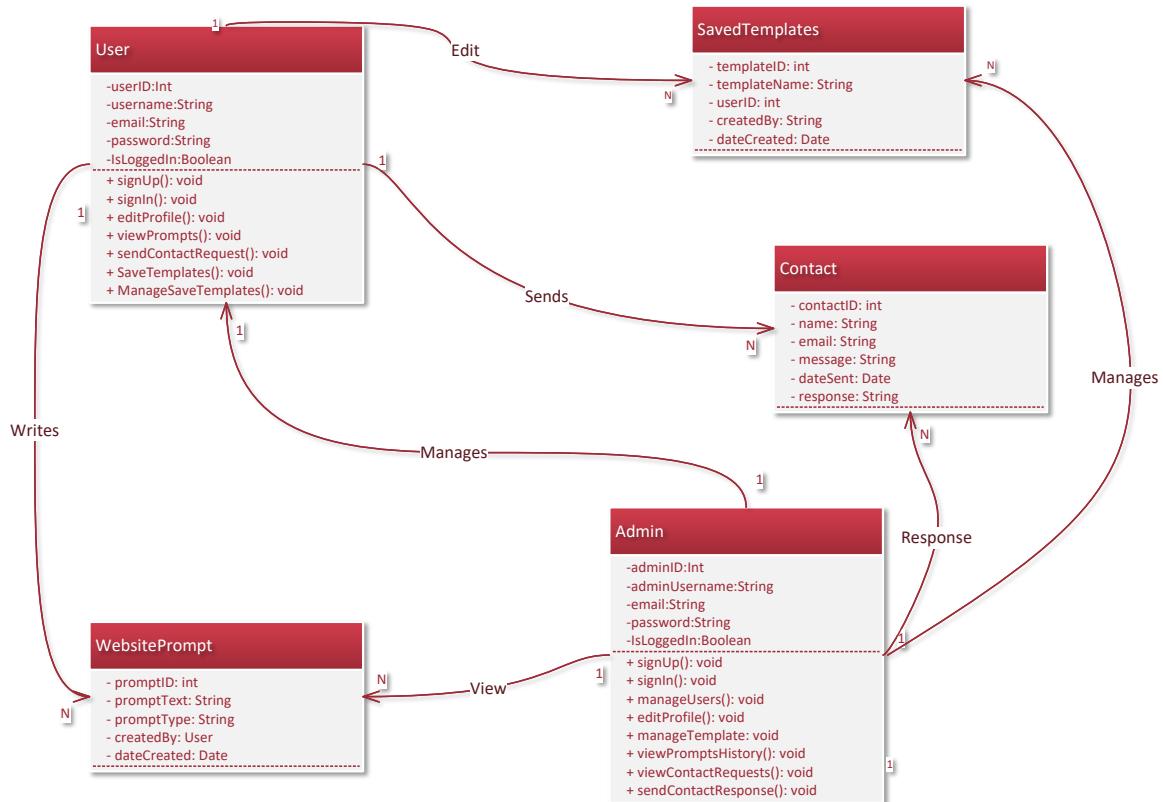


Figure 2.97: Class Diagram

2.3.2 Component Diagram

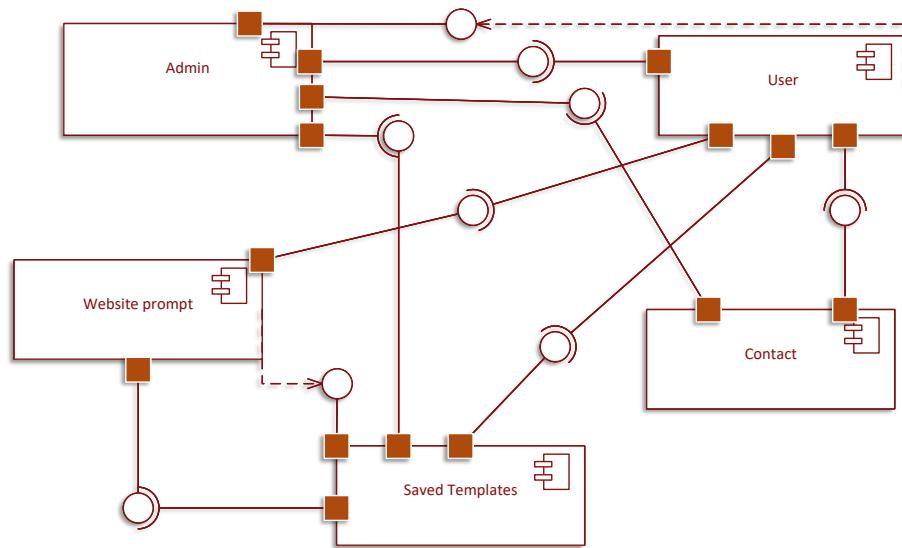


Figure 2.98: Component Diagram

2.3.3 Deployment Diagram

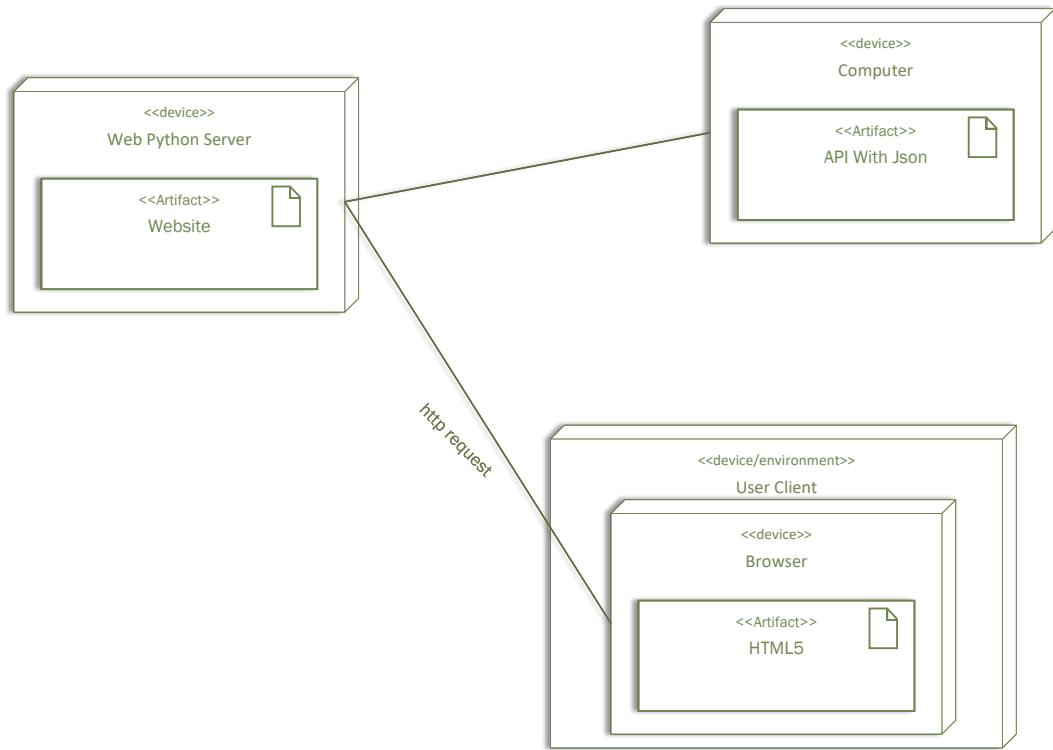


Figure 2.99: Deployment Diagram

2.4 DATABASE DESIGN

2.4.1 ER Diagram

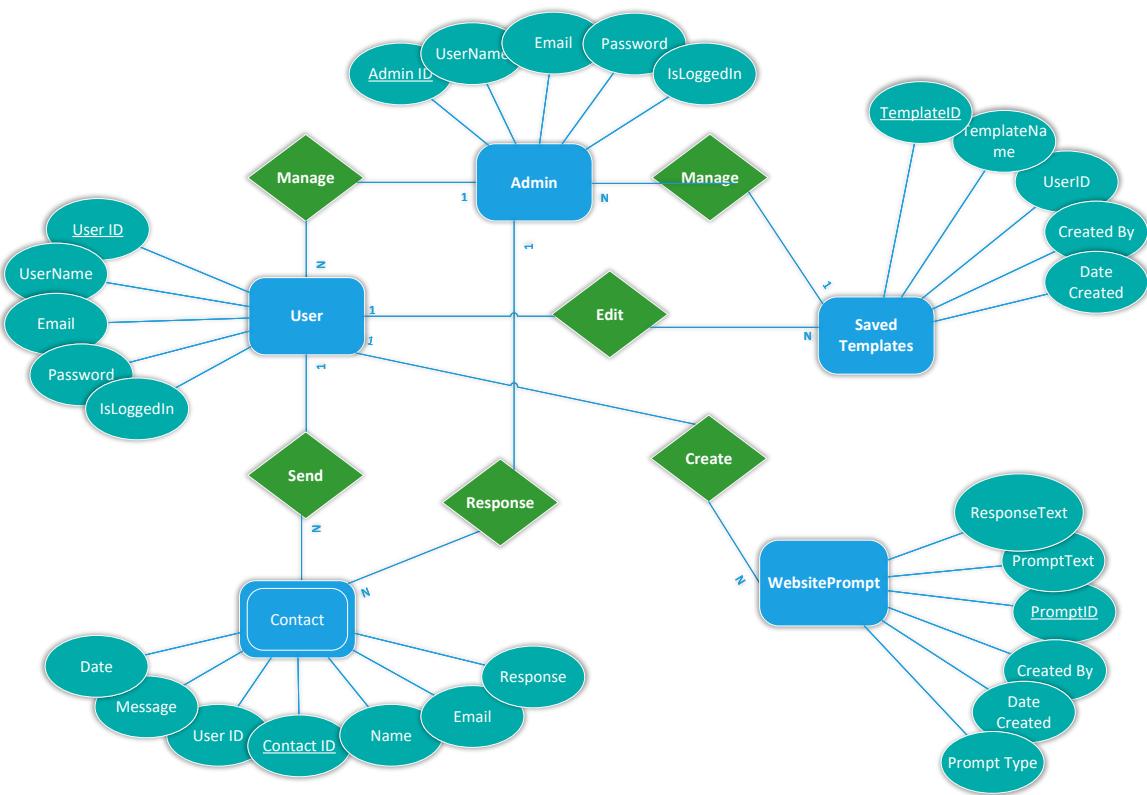


Figure 2.100: ER Diagram

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