

# ER: Requirements Specification Component

The vision of this project is to create a social network for food enthusiasts, where they can discover, share, and engage with dining experiences worldwide. This platform will offer in-depth reviews, personalized recommendations, and community interactions, empowering food lovers to make informed dining choices and explore new culinary horizons.

## 1. A1: Raffia

The Raffia social network is being developed by a group of students in the Bachelor in Informatics and Computing Engeneering, in the Database and Web Applications Laboratory course as a product to connect food lovers and restaurants.

The main goal of the project is to develop a social network where food enthusiasts can share their dining experiences, rate restaurants, and discover new culinary spots based on genuine reviews. We aim to build a community that values transparency, quality, and the joy of sharing gastronomic adventures. Our platform will in the client prespective, serve as a go-to resource for anyone looking to explore new eateries, read honest reviews and connect with fellow food lovers, and in the restaurant prespective, as a place to advertise advertise their services and products.

The motivation behind this project stems from a passion for food and the desire to build a community around it. In the competitive world of social networking and review platforms, we recognize that many people seek reliable recommendations when choosing where to dine. Our platform will provide an all-in-one service where users can review, book, and search for restaurants, making it a comprehensive solution. With everything available in one place, users won't need multiple apps to find, rate, and reserve dining experiences — they can do it all within our platform.

Our platform will operate in a dynamic digital environment, catering to users who value authentic content. The frontend will be designed to offer an intuitive and engaging user experience across all devices, including desktops, tablets, and smartphones.

### 1.1. Main Features

- **User Profiles:** Personal profiles where users can upload photos, share their bio, and list their favorite cuisines and restaurants.
- **Restaurant Reviews:** Detailed reviews with ratings for various aspects such as food quality, service, ambiance, and value for money.
- **Photo Sharing:** Users can upload photos of their meals and dining experiences.
- **Search and Discovery:** Advanced search features to find restaurants by location, cuisine, rating, and other criteria.
- **Social Interaction:** Commenting, liking, and sharing reviews to foster community engagement.
- **Recommendations:** Personalized restaurant recommendations based on user preferences and review history.
- **Events and Deals:** Information on restaurant events, special offers, and exclusive deals for users.
- **Notifications:** Alerts for new reviews, comments, and updates from followed users and restaurants.

### 1.3. User Groups

Group Name	Features	Description
Guest	User	Individuals who enjoy exploring new dining experiences, but are not authenticated yet. They use the platform to discover new restaurants
Client	User, Authinticated User, Authenticated Client, Post Author, Comment Author, Group Member, Group Owner	Authenticated individuals who use our platform as active participants. They can create reviews, rate restaurants, book tables (where available), and engage with the community by sharing their dining experiences
Restaurant	User, Authenticated User, Authenticated Restaurant, Post author, Comment author	Restaurant owners who manage their establishment's profile. They can update business information, respond to reviews, showcase their menu
Administration	Administration	Users with administrative privileges who manage and oversee the platform's operations. They are responsible for moderating content, managing user access, and ensuring the smooth functioning of the platform.

Table 1: User Groups Description

## 2. A2: Actors and User stories

This artifact aims to identify the potential users of this platform (Actors), enumerating the possible activities (User Stories) and interactions that take place in the social network.

### 2.1. Actors

For the **Raffia** system, the actors are represented in **Figure 1** and described in **Table 2**.

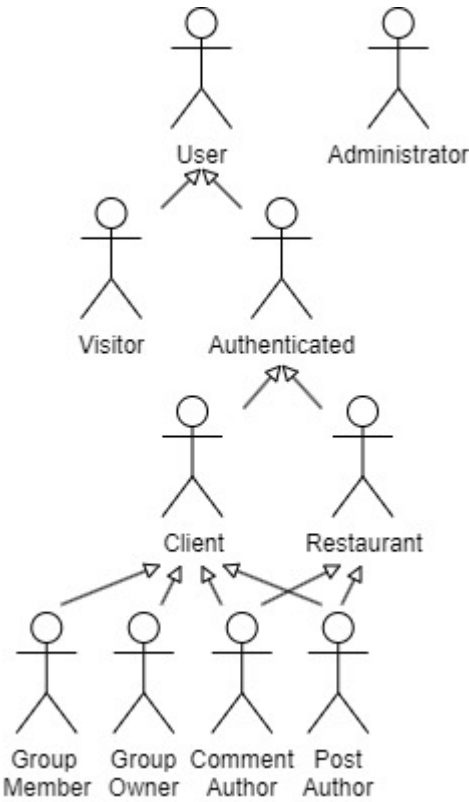


Figure 1: Raffia actors

Actor	Relationship
User	Generic user that can see public posts, comments and profiles
Administrator	User with higher privileges that manages the platform’s posts, comments and profiles
Visitor	Unauthenticated user that can sign in / sign up and see public posts, comments and profiles
Authenticated	User that can see and interact (comment or react) with his network’s posts. He can also create posts and follow other users
Client	Authenticated user that can create and join groups, as well as create review posts and manage his network by accepting or declining following requests
Restaurant	Authenticated user that can create informational posts
Group Owner	User that integrates a group/community and has permission to edit the group’s description, name, visibility, add/remove participants, edit participants permissions
Group Member	User that can interact with or create posts and comments inside a restricted group/community
Post Author	User that can create and manage a posts
Comment Author	User that can comment on a post

Table 2: Raffia actors description

2.2. User Stories

For the Raffia system, consider the user stories that are presented in the following sections.

2.2.1. User

ID	Name	Priority	Description	Story Owner
U01	View a public timeline	High	As a user, I want to view a public timeline, so that I can explore the posts from other users	Nelson
U02	View public user profiles	High	As a user, I want to be able to view public user profiles, so that I can see specific users' posts	Nelson
U03	Search Profiles	High	As a user, I want to be able to search for user profiles by their tag, so that I may view their profiles and posts	Nelson
U04	Exact Match Search	High	As a user, I want to be able to do Exact Match Search, so that I can find what I am looking for easily	Nelson
U05	Full-text Search	High	As a user, I want to be able to do Full-text Search, so that I can find what I am looking for easily	Nelson

ID	Name	Priority	Description	Story Owner
U06	Search Groups	Medium	As a user, I want to search for groups by keywords or their name, so that I can find communities of interest	Nelson
U07	Search Posts	Medium	As a user , I want to search for posts by keywords or hashtags, so that I can find specific content of interest	Nelson
U08	Search Comments	Medium	As a user, I want to be able to search for comments by keywords, so that I can find specific discussions within posts	Nelson
U09	View ‘About Us’ Section	Medium	As a user, I want to have access to an ‘About Us’ section, so that I can learn more about the platform’s creators	Nelson
U10	View ‘Main Features’ Section	Medium	As a user, I want to be able to view a ‘Main Features’ section, so that I can understand the key functionalities and benefits of the platform	Nelson
U11	Access ‘Contacts’ Section	Medium	As a user, I want to have access to a ‘Contacts’ section with useful contact information, so that I can reach out for inquiries, support, or feedback	Nelson
U12	Search over Multiple Attributes	Medium	As a user, I want to be able to Search over Multiple Attributes, so that I can find what I am looking for easily	Nelson
U13	Search Filters	Medium	As a user, I want to be able to user Search Filter, so that I can search only what I am interested in	Nelson
U15	Placeholders in Form Inputs	Medium	As a user, I want to be able to view Placeholders in Form Inputs, so that I can better understand what should be placed in each place	Nelson
U16	Contextual Error Messages	Medium	As a user, I want to be able to view Contextual Error Messages, so that I can understand what is happening	Nelson
U17	Contextual Help	Medium	As a user, I want to be able to have a Contextual Help section so that I can understand how to use the platform	Nelson

Table 3: User User Stories

### 2.2.2. Visitor

ID	Name	Priority	Description	Story Owner
V01	Sign In	High	As a visitor, I want to sign in to my account, so that I can access personalized features and interact fully with the platform	Nelson
V02	Sign Up	High	As a visitor, I want to sign up for a new account, so that I can become a member of the platform	Nelson
V03	Recover Password	Medium	As a visitor who has forgotten my password, I want to be able to recover or reset it, so that I can regain access to my account and continue using the platform	Nelson

Table 4: Visitor User Stories

### 2.2.3. Authenticated User

ID	Name	Priority	Description	Story Owner
A01	View personalized timeline	High	As an authenticated user, I want to be able to view a personalized timeline, so that I can stay engaged	Wagner
A02	View public user profiles	High	As an authenticated user, I want to be able to view public user profiles, so that I can explore other user's posts	Wagner
A03	View own profile	High	As an authenticated user, I want to be able to see my profile, so that I can see the content other users find when they visit my personal page	Wagner
A04	Edit profile	High	As an authenticated user, I want to be able to edit my profile, so that I can keep it up-to-date and appealing	Wagner

ID	Name	Priority	Description	Story Owner
A05	Support profile picture	Medium	As an authenticated user, I want to be able to have a profile picture, so that other users can easily recognize me	Wagner
A06	Delete account	Medium	As an authenticated user, I want to be able to delete my account, so that I can leave the platform when needed	Wagner
A07	Receive notifications	Medium	As an authenticated user, I want to be able to receive notifications, so that I can stay informed about activities	Wagner
A08	Comment on posts	Medium	As an authenticated user, I want to be able to comment on posts, so that I can interact with other users	Wagner
A09	React to posts	Medium	As an authenticated user, I want to be able to react to posts, so that I can express my emotions toward them	Wagner
A10	View profile feeds	Medium	As an authenticated user, I want to be able to view profile feeds, so I can follow other users' interactions	Wagner
A11	React to comments	Medium	As an authenticated user, I want to be able to react to comments, so that I can show my feelings on discussions	Wagner

Table 5: Authenticated user User Stories

2.2.4. Authenticated Client

ID	Name	Priority	Description	Story Owner
AC01	Follow Users	High	As an authenticated client, I want to be able to follow other users, so that I can stay in touch and see their posts	Wagner
AC02	Create a review	High	As an authenticated client, I want to be able to create a review, so that I can share my experiences and rate restaurants	Paulo
AC03	View followed users' feed	High	As an authenticated client, I want to be able to view the feed of users I follow, so that I can see what they are eating and their reviews	Paulo
AC04	See network posts	High	As an authenticated client, I want to be able to see posts from my network, so that I can engage and make more informed decisions	Paulo
AC05	Accept follow requests	Medium	As an authenticated client, I want to be able to accept follow requests, so that I can expand my network	Paulo
AC06	Reject follow requests	Medium	As an authenticated client, I want to be able to reject follow requests, so that I can keep my network limited to people I want	Paulo
AC07	Create a group	Medium	As an authenticated client, I want to be able to create a group, so that I can restrict the content to a specific theme or group of people	Paulo
AC08	Follow public groups	Medium	As an authenticated client, I want to be able to follow public groups, so that I can see their content	Paulo
AC09	Request to join groups	Medium	As an authenticated client, I want to be able to request to join private groups, so that I can access their content once my request is accepted	Paulo
AC10	Notification of accepted follow	Low	As an authenticated client, I want to receive a notification when someone accepts my follow request, so that I can engage with their	Paulo
AC11	Receive notifications on group status	Low	As an authenticated client, I want to receive a notification if I am accepted or rejected from a private group, so that I can start interacting as soon as possible	Paulo

Table 6: Authenticated Client User Stories

2.2.5. Authenticated restaurant



ID	Name	Priority	Description	Story Owner
AR01	Post restaurant information	Medium	As an authenticated restaurant, I want to be able to post information about my place, so that clients stay informed	Wagner

Table 7: Authenticated restaurant User Stories

2.2.6. Group Member

ID	Name	Priority	Description	Story Owner
GM01	Post on group	Medium	As a group member, I want to publish a post in a group, so that the other members can view and interact with it	Sara
GM02	View group's members	Medium	As a group member, I want to see the other members, so that I can know other users with the same interests as me	Sara
GM03	Leave group	Medium	As a group member, I want to have the option to leave the group, so that I can quit when I lose interest in it	Sara

Table 8: Group Member User Stories

2.2.7. Group Owner

ID	Name	Priority	Description	Story Owner
GO1	Manage Join Requests	Medium	As a group owner, I want to manage (approve or reject) requests to join the group, so that I can control membership	Sara
GO2	Remove Member	Medium	As a group owner, I want to be able to remove members from the group if they are violating rules or are inactive, so that I can maintain a positive environment	Sara
GO3	Invite to Group	Medium	As a group owner, I want to be able to invite members to the group, so that they can access the group content	Sara
GO4	Edit Group Information	Medium	As a group owner, I to be able to edit the group's information (e.g., name, description), so that I can keep the group updated	Sara
GO5	Remove Post from Group	Low	As a group owner, I want to be able to remove posts from the group if they violate community guidelines, so that I can maintain a positive environment	Sara

Table 9: Group Owner User Stories

2.2.8. Post Author

ID	Name	Priority	Description	Story Owner
PA01	Edit post	High	As a post author, I want to be able to edit my post, so that I can change something that was wrong	Sara
PA02	Delete post	High	As a post author, I want to be able to delete my post, so that I can remove it from the platform	Sara
PA04	Delete comment in post	Low	As a post author, I want to be able to remove a comment in the post, so that I can ensure there is no misappropriated or irrelevant content	Sara

Table 10: Post author User Stories

2.2.9. Comment author

ID	Name	Priority	Description	Story Owner
CA01	Edit comment	Medium	As a comment author, I want to be able to edit my post, so that I can change something that was wrong	Sara

ID	Name	Priority	Description	Story Owner
CA02	Delete comment	Medium	As a comment author, I want to be able to delete my comment, so that I can remove it from the platform	Sara

Table 11: Comment Author User Stories

2.2.10. Administrator

ID	Name	Priority	Description	Story Owner
ADMIN01	Administer User Accounts	High	As an administrator, I want to administer all the users' accounts, posts, comments, so that I can review and search for any inappropriate activity	Nelson
ADMIN02	Block and Unblock User Accounts	Medium	As an administrator, I want to be able to block or unblock a user based on their activity, so that I can keep a positive environment on the platform	Nelson
ADMIN03	Delete User Account	Medium	As an administrator, I want to be able to be able to remove an account if it has been misappropriated or irrelevant multiple times, so that I can keep a positive environment on the platform	Nelson

Table 12: Administrator User Stories

2.3. Supplementary Requirements

Section including business rules, technical requirements, and restrictions.  
For each subsection, a table containing identifiers, names, and descriptions for each requirement.

2.3.1. Business rules

ID	Name	Description
BR01	Deleted Account	Upon account deletion, shared user data (e.g. comments, reviews, likes) is kept but is made anonymous
BR03	Media Types	The available media types for items are jpg, png, jpeg, gif and mp4
BR04	Post date	The date of any post must be less than or equal to the current date
BR05	Comment on own Posts	A User is able to comment its own post
BR06	React to own Posts	A User is able to react to its own post

Table 13: Raffia Business Rules

2.3.2. Technical Requirements

ID	Name	Description
TR1	Performance	The system should have response times shorter than 2s to ensure the user's attention
TR2	Robustness	The system must be prepared to handle and continue operating when runtime errors occur
TR3	Scalability	The system must be prepared to handle the increased number of users and interactions
TR4	Accessibility	The system should guarantee universal access to all the pages, regardless of the user's disabilities or their choices of web browsers
TR5	Usability	The system should offer a straightforward and user-friendly experience
TR6	Portability	The system should work on multiple platforms, such as Linux and macOS, to accommodate a broad user base effectively
TR7	Web Application	The system should be developed as a web application, using HTML, JavaScript, CSS, and PHP
TR8	Compliance with Legislation and Privacy Standards	The system must respect the legislation of the places where it operates and must respect users' preferences and privacy
TR9	Availability	The system must be available for almost all of the time

The most critical Technical Requirements are **Performance**, **Robustness** and **Scalability**. The platform must meet users' expectations for speed, ensure that it continues to function even in the event of runtime errors so that users can remain connected, and, as a social network, it must support a large number of users and posts.

Table 14: Raffia technical requirements

2.3.3. Restrictions

ID	Name	Description
R1	Deadline	The system should be ready to be used at the end of the semester
R2	Database	The database should be PostgreSQL

Table 15: Raffia project restrictions

3. A3: Information Architecture

This section presents a brief overview of the architecture and detailed information of the project, featuring the sitemap and a wireframe of the main pages of the website.

3.1. Sitemap

The image below provides information about all the pages of the Raffia project and the relationships between them.

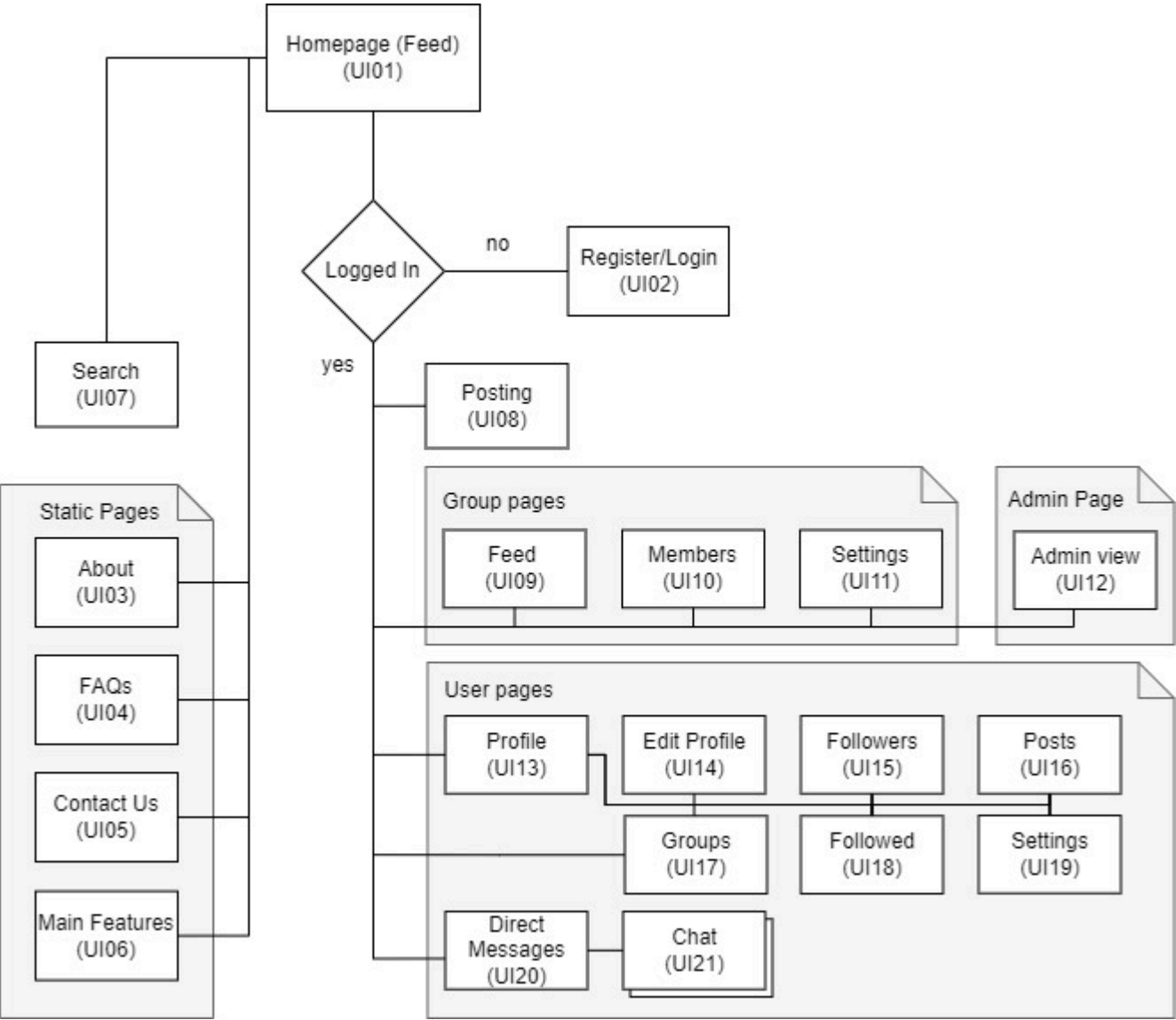


Figure 2: Raffia sitemap.

3.2. Wireframes

The wireframes below illustrate key sections of the homepage and sitemap, providing an overview of the layout and structure for the website.

UI01: HomePage

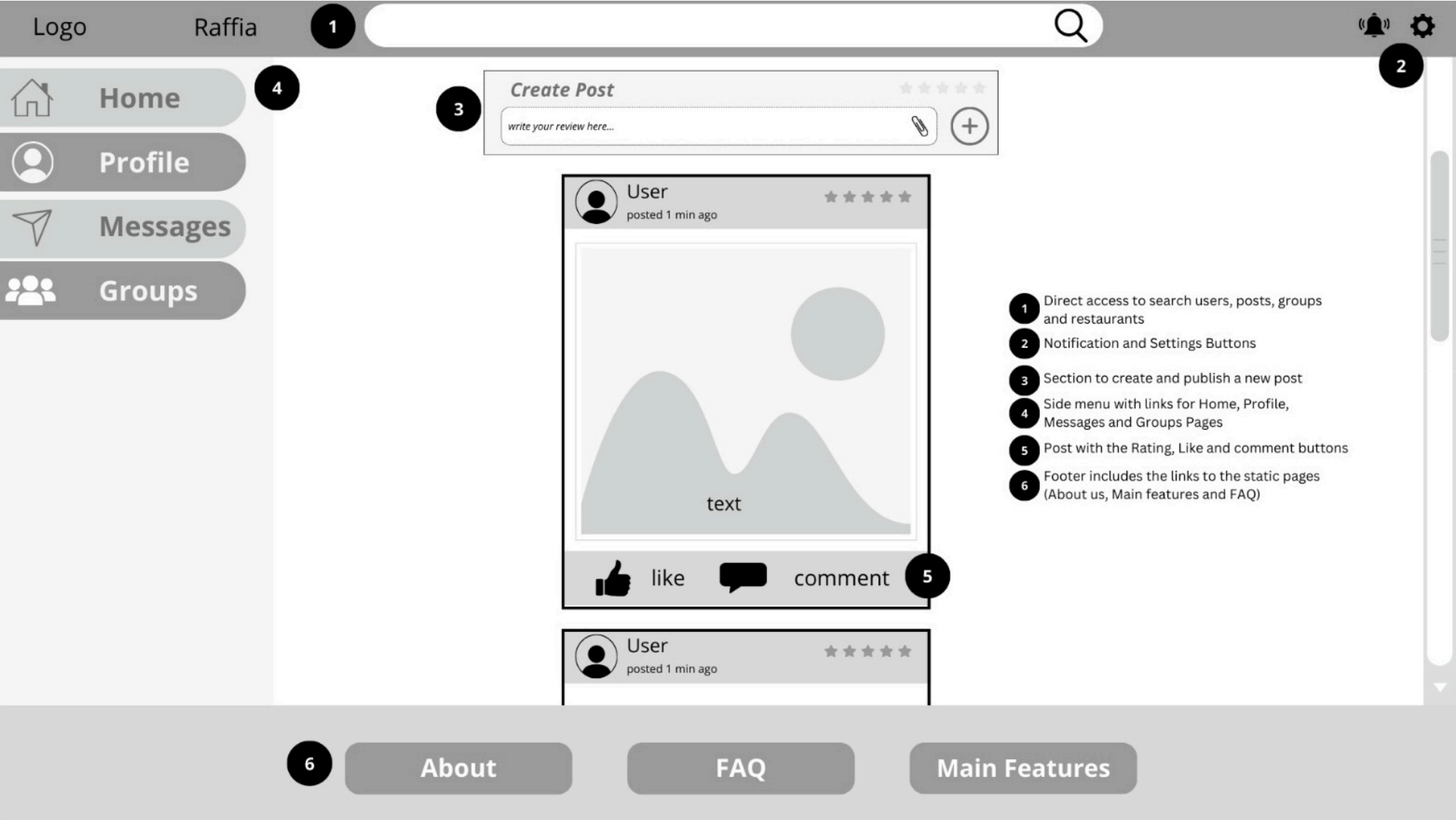


Figure 3: Raffia HomePage Wireframe.

UI13: Profile Page

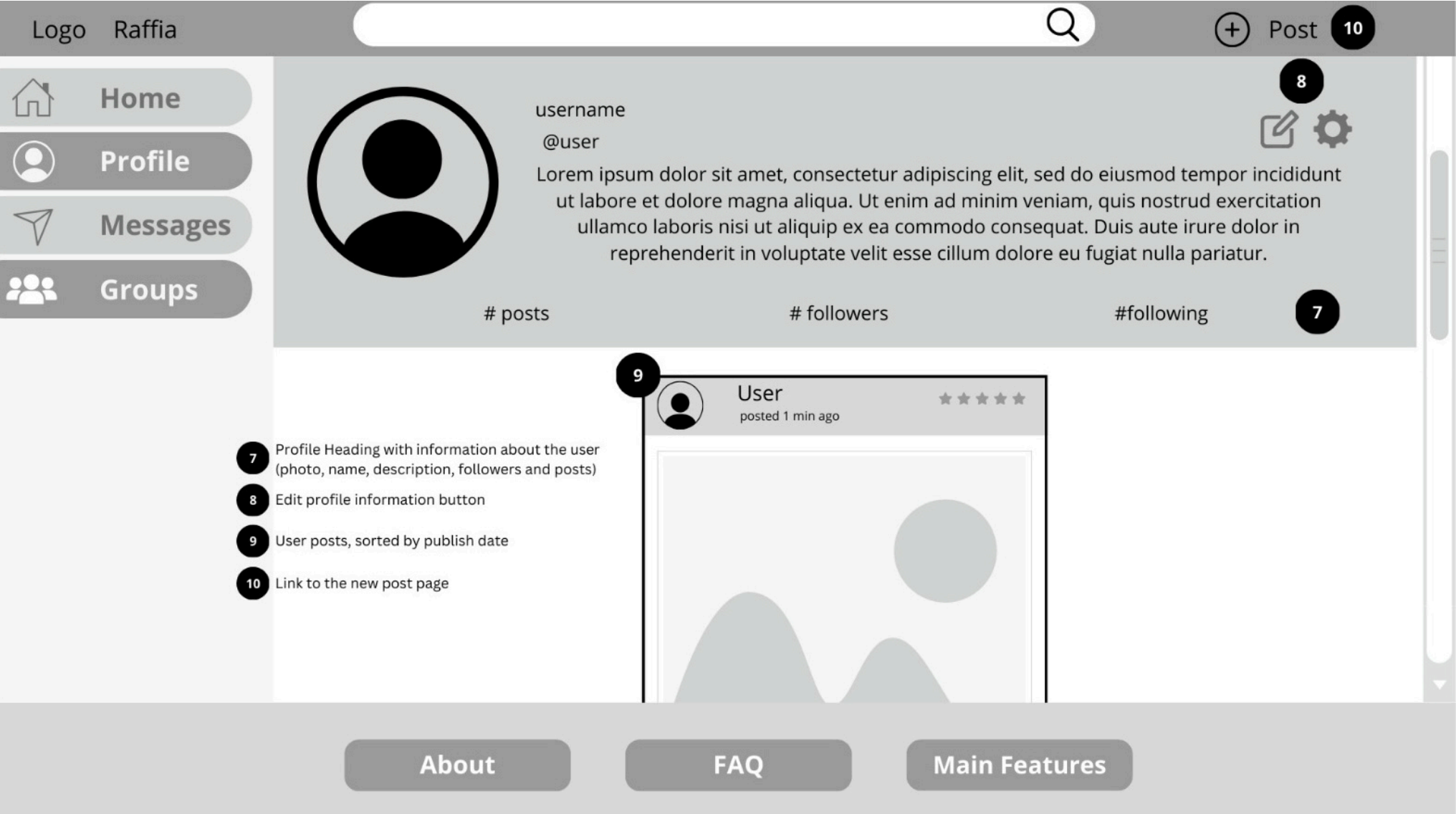


Figure 4: Raffia Profile Page Wireframe.

Revision history

A1

Editor: Wagner Pedrosa

September 24:

- Context of project, Goals, motivation, Product Vision, Bussiness contex and Enviroment



by:

- Wagner Pedrosa
- Paulo Fidalgo
- Nelson Neto
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A2

Editor: Wagner Pedrosa

Outubro 1:

- Actors, and some user stories

by:

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Outubro 2:

- Finhished User stories and Supplementary Requirements

by:

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A3

Editor: Wagner Pedrosa

Outubro 4:

- Sitemap

by:

- Wagner Pedrosa
- Paulo Fidalgo
- Nelson Neto
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Outubro 5:

- HomePage and Profile Wireframe

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