

ER: Requirements Specification Component

Our project aims to redefine what it means to be online and have questions. Our goal is to ensure that every user feels comfortable asking questions and confident that they will receive fast and constructive answers in a friendly environment. We will have a rating system to ensure only the best and most helpful answers according to the community get to the top.

A1: 4NSWERS

As Learners, we often have questions that need answers as fast as possible. So we decided to create a Collaborative Q&A Content Rated Forum Website adapted for those situations.

In this website, the user can post their questions or doubts about a certain topic, marking the post with the appropriate tags, and other users can respond with what they think is the best answer to the current problem. To be able to do that, an account must be created. If not, the guest can only see the questions and responses, but cannot partake in the post's action.

As those various answers start stacking up on a certain post, they are positively or negatively voted by all the users, affecting the answers' order of appearance (meaning the most publicly supported answers appear at the top).

The website contains a points system (gamification). The responders with the top 4 answers on a certain post according to the votes, and the responder that has had its answer marked as USEFUL by the poster, receive reward points. The poster also receives a certain amount of points depending on how popular the question was.

The top 16 users with the most points are shown in a special 'Hall of Fame' ranking in the website.

Users can make comments on other responders' answers, and can search for specific question posts and users.

Knowing that the website encourages a fast answer delivery mentality, all questions are open only during a predetermined amount of time (up to a maximum of 48 hours) selected by the poster.

In the feed, all active posts are shown and can be ordered by newest, most urgent (running outta time) and hottest (most positive votes). Users can also filter the feed to only show posts with their 'followed' tags.

The question closes when time runs out, or when the poster declares one of the answers as USEFUL.

After its closure, the post will remain up for users to read it, despite them being now blocked from posting new answers and voting on existing ones.

During the entirety of this process, an Admin may appear and provide an analysis of the answer(s), alerting the community for the existence of an incorrect answer with alerts, independently if the original poster declared that answer as USEFUL or not.

The probability of a post receving an Admin's analysis is higher on posts that are having more user interactions (trending), or when a significant amount of users have reported a certain question, answer or comment.

Responders that have had their answers flagged by an Admin's Alert, may lose a certain amount of points, that amount depending on the type of the Alert. The same applies to posters with flagged questions.

A user can acquire the title of admin for a tag after earning a specific number of points and providing a certain number of correct answers to posts associated with said tag.

The central motivation behind this project is to find a way to reduce the frustration of not having someone to ask about an important and/or urgent question or doubt. Our project helps by having multiple users engaged to answer our questions the best way they can.

A2: Actors and User stories

The goal for this artifact is to define how users will interact with our website. It also serves as a guideline for features.

1. Actors

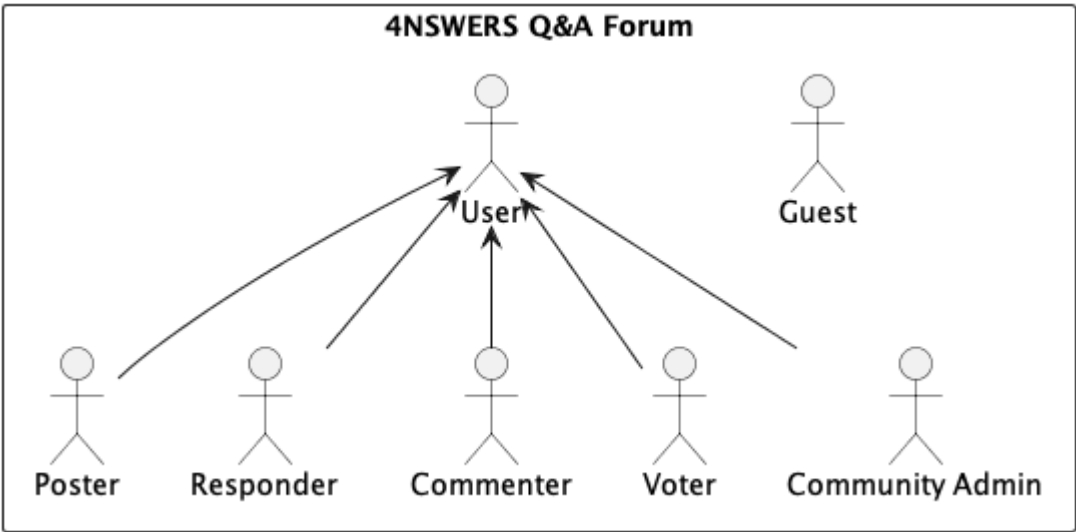


Table of Actors

Actor	Description
Guest	A non-authenticated user that can read questions and answers.
User	Any individual that can post questions, answer questions, vote, and comment on answers.
Poster	A user who posts a question and selects a timeframe during which answers can be submitted, and can eventually declare one of them USEFUL.
Responder	A user who answers questions and contributes to discussions by commenting on other answers.
Voter	A user who votes on the validity or quality of answers to help promote the best ones.
Community Admin	A moderator responsible for flagging harmful or incorrect answers (ALERTS) and moderating users in its community.

2. User Stories

2.1. Actor 1: Guest

ID	Name	Priority	Responsible	Description
US01	Read a Question and respective Answers	High	Pedro Santos	As a Guest, I want to read questions so that I can get answers to my doubts without having to create an account.
US02	Create an account	High	Rodrigo de Sousa	As a Guest, I want to be able to create an account so I can log in.
US03	Sign in	High	Leonor Couto	As a Guest, I want to be able to sign in to my account so I can be identified.
US04	Search for Questions	Medium	Afonso Castro	As a Guest, I want to search for questions similar to mine that have already been answered so I can find other answers to similar problems.
US05	Search for Users	Medium	Pedro Santos	As a Guest, I want to search for other users so I can check their profile.

2.2. Actor 2: User

ID	Name	Priority	Responsible	Description
US06	Log out	High	Rodrigo de Sousa	As a User, I want to be able to log out so other people using the device don't use my account.
US07	View Closed Questions	Medium	Afonso Castro	As a User, I want to be able to view closed question feeds so I can learn from past discussions.
US08	Report a Question/Answer	Medium	Leonor Couto	As a User, I want to be able to report Question/Answer that seem harmful or misjudged so that admin can review the Question/Answer.
US09	Edit Profile	Medium	Pedro Santos	As a User, I want to be able to edit my profile so I can change my information.
US10	Delete Profile	Medium	Rodrigo de Sousa	As a User, I want to be able to delete my profile so I don't have an account anymore.
US11	Manage Posts	Medium	Leonor Couto	As a User, I want to be able to edit and delete my old posts, answers and comments, so they are not public anymore.

2.3. Actor 3: Poster

ID	Name	Priority	Responsible	Description
US12	Post a Question	High	Afonso Castro	As a Poster, I want to post a question so that others can provide answers to my query.
US13	Set a Time Limit for Question	High	Leonor Couto	As a Poster, I want to set a time limit for how long answers can be submitted to my question so the question closed when not needed anymore.
US14	Edit its own Question	Medium	Pedro Santos	As a Poster, I want to be able to edit my question after having already posted it so that I can fix my question.
US15	Close Question by Selecting Answer	Medium	Rodrigo de Sousa	As a Poster, I want to close my question when I have received a satisfactory answer so no one else can answer.
US16	Earn points	Medium	Afonso Castro	As a Poster, I want to earn some points if my question is popular so I go up in the rankings.

2.4. Actor 4: Responder

ID	Name	Priority	Responsible	Description
US17	Respond to Question	High	Pedro Santos	As a Responder, I want to be able to answer to questions that interest me so I can give my input.
US18	Receive Votes on my Answer	High	Pedro Santos	As a Responder, I want users to vote on my answer to determine its relevance and correctness so that I can learn if my solution is good or not.
US19	See if Answer is Marked USEFUL	High	Afonso Castro	As a Responder, I want to see if my answer has been marked USEFUL by the poster, so I know if I have successfully helped the poster.
US20	Earning points	Medium	Rodrigo de Sousa	As a Responder, I want to earn points if I'm one the top 4 best answers and/or if the poster marks my answer as USEFUL so that I can increase my chances of being in the top 16 hall of fame.

2.5. Actor 5: Commenter

ID	Name	Priority	Responsible	Description
US21	Comment on Responses	High	Afonso Castro	As a Commenter, I want to be able to comment on any post's responses, so I can complete them with any information I think is relevant.

2.6. Actor 6: Voter

ID	Name	Priority	Responsible	Description
US22	Vote on Answers	High	Rodrigo de Sousa	As a Voter, I want to positively or negatively vote on answers based on how helpful and accurate I think it is to the problem, so that I can help the Poster obtain a satisfactory answer.
US23	View Answer Rankings	Medium	Leonor Couto	As a Voter, I want to see how answers rank based on community votes so that I can check the most popular answers.
US24	Earning points	Low	Leonor Couto	As a Voter, I want to earn some points for voting so that my time reading other people's posts is also rewarded points wise.

2.7. Actor 7: Community Admin

ID	Name	Priority	Responsible	Description
US25	Issue Alerts on questions	High	Leonor Couto	As an Admin, I want to issue an alert when an question is found to be inappropriate or irrelevant to the community it was posted in, so that I can give users an experience that is aligned with their expectations.
US26	Issue Alerts on answers	High	Pedro Santos	As an Admin, I want to issue an alert when an answer is found to be incorrect, even if it is marked USEFUL, so that I can inform future readers that the answer might not be correct.
US27	Remove Harmful Content	High	Rodrigo de Sousa	As an Admin, I want the ability to delete harmful or misleading content so that I can maintain the integrity of the platform.
US28	Moderate users in the community	High	Afonso Castro	As an Admin, I want the ability to moderate users in the community, having the ability to alert, and if necessary, to temporarily or permanently ban them so that I keep my community clean.
US29	Check reported answers	Medium	Leonor Couto	As an Admin, I want to be able to analyse questions and answers that have been reported so that I can keep my community clean.

3. Supplementary Requirements

3.1. Business Rules

ID	Name	Description
BR1	Voting Integrity	Users can only vote once per answer. A vote may be changed, but not duplicated.
BR2	Post Closure Policy	Questions will close either when the selected time expires or when the poster marks an answer as USEFUL, whichever occurs first.
BR3	Reporting Answers	Users can report an answer they think is harmful or incorrect. After reaching a threshold of reports, the system alerts Admin for review.
BR4	User can not auto-answer	Users can not answer to their own posts, but can comment on other users' answers to their questions.

ID	Name	Description
BR5	User can not auto-vote	Users can not vote to their own answers, but can vote on other users' answers to the questions.
BR6	Deleted User Contents	Questions, answers and comments remain even after the user's account elimination, appearing as posted by an deleted account.
BR7	Time Paradox Forbidden	Users can not answer a question THAT STILL HASN'T BEEN POSTED, AS IT IS IMPOSSIBLE ACCORDING TO OUR CURRENT UNDERSTANDING OF THE LAWS OF TIME AND SPACE.

3.2. Technical Requirements

ID	Name	Description
TR1	Responsive Design	The platform must be accessible on desktop devices. Because we want the users to be able to use this regardless of the size of their screen.
TR2	Notification System	Users must receive notifications when someone responds to their question, comments on their answer, or issues an alert. Because we want the users to be informed as soon as possible.
TR3	Accessibility	The platform must be accessible to everyone that follows the terms and conditions. Because we want to receive anyone that promotes a healthy environment in our platform.
TR4	Tags	Tags will group related questions by topic and theme.
TR5	Urgency	Questions will be identified with the timeframe the question would need to be answered in.

3.3. Restrictions

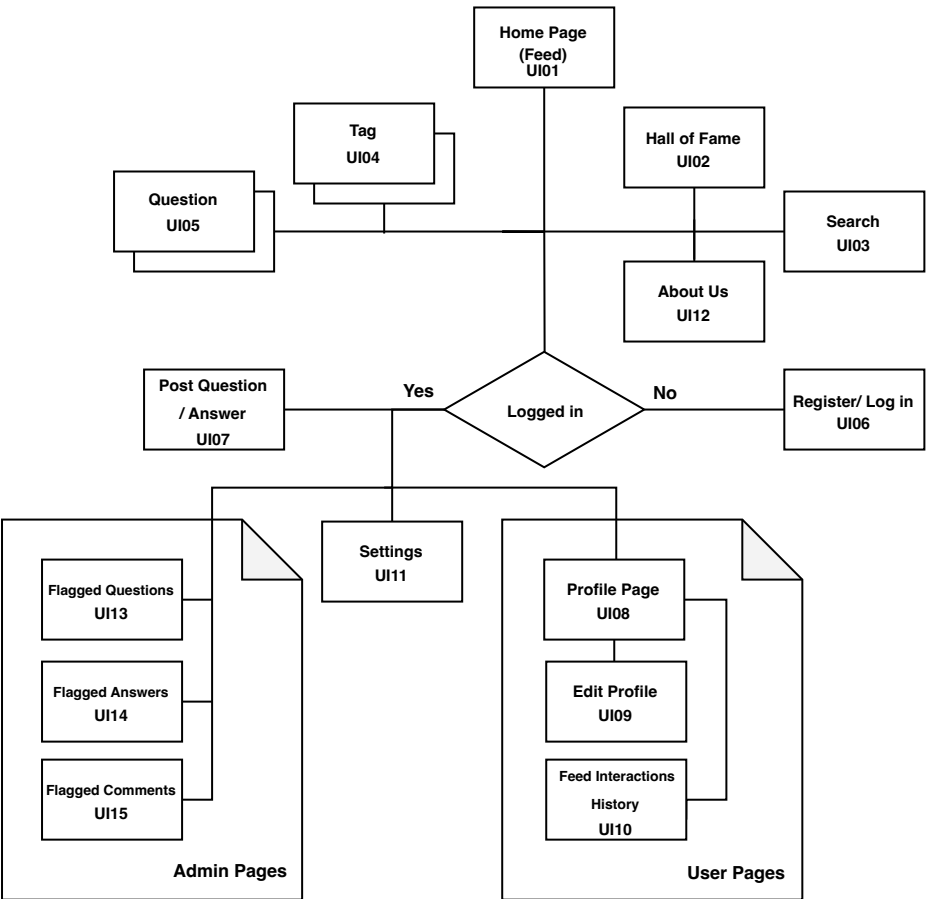
ID	Name	Description
R1	Anonymous Posting Not Allowed	Users must be registered and logged in to post questions or answers.
R2	Maximum Time Limit for Questions	A question can remain open for a maximum of 48 hours before it automatically closes.
R3	Admin Alert Response Time	Admins must review reported content within 24 hours to ensure swift removal of harmful content or alert activation.

A3: Information Architecture

This artifact provides a high-level overview of the system's information architecture, including a sitemap and wireframes for key pages, aimed at identifying user requirements, testing the interface, and enabling iterative design improvements.

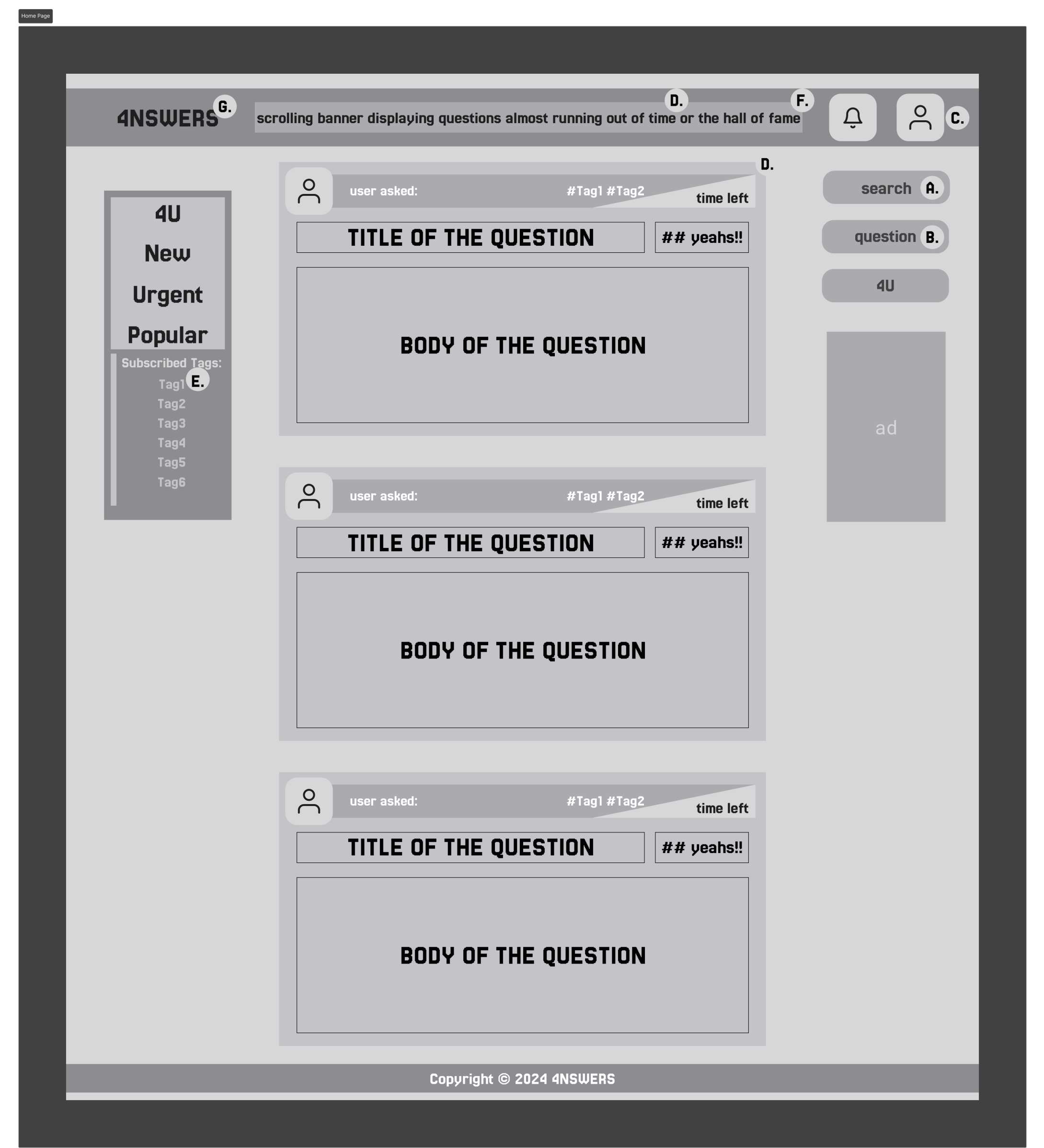
1. Sitemap

The image below illustrates the pages that will be available on 4nswers and shows how users can navigate or interact with them. It offers a straightforward overview of the website's usage process.



2. Wireframes

2.1. Home Page



- A. -> Search Page UI03
- B. -> Post Question Page UI07
- C. -> Profile Page UI08
- D. -> Question Page UI05
- E. -> Tag Page UI04
- F. -> Hall of Fame UI02
- G. -> Main Page UI01

2.2. Post Page

4U

New

Urgent

Popular

Subscribed Tags:


Tag1E.



Tag2

Tag3

Tag4

Tag5

 user asked: #Tag1 #Tag2 time left

TITLE OF THE QUESTION  ### 

BODY OF THE QUESTION


search A.



answer B.

report


ad



Marked as Useful by the Poster!

 user answered: 1st: ## aura

ANSWER  

5 Comments

 user answered: 2nd: ## aura

ANSWER  

2 Comments


 add your comment



 user commented:

BODY OF THE COMMENT


 user commented:



BODY OF THE COMMENT

 user answered: 3rd: ## aura

ANSWER  

3 Comments

 user answered: 4th: ## aura

ANSWER  

3 Comments

SHOW MORE

- A. -> Search Page UI03
- B. -> Post Answer UI07
- C. -> Profile Page UI08
- D. -> Question Page UI05
- E. -> Tag Page UI04
- F. -> Hall of Fame UI02
- G. -> Main Page UI01

2.3. Profile Page

Profile Page



- A. -> Search Page UI03
- B. -> Post Question Page UI07

- C. -> Profile Page UI08
- D. -> Question Page UI05
- E. -> Tag Page UI04
- F. -> Hall of Fame UI02
- G. -> Main Page UI01

Revision history

Changes made to the first submission:

1. Added A1 and A2 [2024-09-26]
2. Artifacts Improved (A1 and A2) [2024-09-30]
3. Minor Revisions to the Document and Starting A3 [2024-10-02]
4. Added Responsabilities to User Stories [2024-10-02]
5. Updating Picture [2024-10-02]
6. Text Revision and Admin's role reworked [2024-10-02]
7. Added Wireframes [2024-10-05]
8. Added Sitemap and References [2024-10-07]

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