Within Reach

Requirements Specifications

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Introduction

Our project is a webapp that is used to chat anonymously with others near you. When a user logs into the webapp they have the option to create an account or sign in. After they are logged in, they must give the webpage access to their location. Then they will be able to view posts/replies and have the option to create posts of their own. In Section II we will be discussing the requirements specification as well as the non-functional requirements. We will also discuss the customers, users, and stakeholders of the webapp, in addition to the use cases. Finally, in section III, we will discuss the user interface requirements

Document Revision History

Rev x <date> <comment> (Ex: Rev 1.0 2019-09-20 Initial version)

Requirements Specification

We simply attach the location to a post created by a user, and any other users within a certain mile radius of that post, can see it and reply to it. There is a karma system where users start with 100 karma, and this number changes based on how many upvotes or downvotes they receive from their posts. If a post has less than -5 karma then it gets deleted.

I.1. Customer, Users, and Stakeholders

A brief description of the customer, stakeholders, and users of your software.

The stakeholders of our software will include both of us and anyone in the future who will want to be actively involved with the project. The customers and users of the software are people who login and use our webpage.

I.2. Use Cases

This section will include the specification for your project in the form of use cases. The section should start with a short description of the actors involved (e.g., regular user, administrator, etc.) and then follow with a list of the use cases.

For each use case you should have at least: Name, Actors, Triggers (what initiates the use case), Preconditions (in what system state is this use case applicable), Actions (what actions will the code take to implement the use case), Postconditions (what is the system state after the use case is done), Acceptance tests (list one or more acceptance tests with concrete values for the parameters, and concrete assertions that you will make to verify the postconditions). Each use case should also have a field called "Iteration" where you specify in which iteration you plan to implement this feature.

You may use the following table template for your use cases.

Use case # 1

Name	Create Post

Users	All that use the website
Rationale	They want to let everyone know what's on their mind
Triggers	Click create post link
Preconditions	Must allow client to get anonymous users location
Actions	1. After user allow location gathering, they are able to click on the create post link 2. Once they add the body to the post form, they can submit it to get posted in the index page
Postconditions	After pressing submit, the user's location must get attached to the post. In order to measure distance
Acceptance Tests	The post body must not be empty, and user must allow location
Iteration	1

Use case # 2

For each use case you should have at least: Name, Actors, Triggers (what initiates the use case), Preconditions (in what system state is this use case applicable), Actions (what actions will the code take to implement the use case), Postconditions (what is the system state after the use case is done), Acceptance tests (list one or more acceptance tests with concrete values for the parameters, and concrete assertions that you will make to verify the postconditions). Each use case should also have a field called "Iteration" where you specify in which iteration you plan to implement this feature.

Name	View post/reply
Users	Those who view other posts/replies

Rationale	The user checks the website to view what is on other people's minds. If there is a reply thread, the user has the option to open the thread and view the other replies.
Triggers	The viewer logs into the website and is redirected to the home page.
Preconditions	The website is loaded and the viewer successfully allows location
Actions	1. The viewer navigates to the website, where they must allow location gathering 2. The website will then navigate to the home page, where they are able to view other's posts. 3. If the user is within a certain mile radius of the posts, then they are able to view it 4. If there are replies to a post, the user has the option to open this section and view them.
Postconditions	The website loads all posts/replies.
Acceptance Tests	Make sure that all posts/replies are successfully loaded.
Iteration	1

Use case # 3

Name	Sorting by New or Hot
Users	Those who view other posts/replies
Rationale	The user wants to know what the newest post is or who has the highest karma for a post
Triggers	The user clicks on hot or new

Preconditions	Allow location, and there must already be at least 2 posts
Actions	1. The user clicks on hot or new 2. They get redirected to the same page, but posts are sorted in the manor they choose 3. If they don't choose anything then it is defaulted to New
Postconditions	Posts are sorted
Acceptance Tests	There must be at least two posts, and the user must be near them
Iteration	1

Repeat the above for each use case.

I.3. Non-Functional Requirements

List the non-functional requirements in this section.

Software quality requirements, platform requirements, process requirements

You may use the following template for non-functional requirements

1. [Simplistic System UI]: [Make the ui of the page easy to read by adding logos to links like create post]

2. [Access to an internet browser]: [The user must have internet access and an internet browser in order to use our webpage]

3. [Iterations]: [The website must be able to run successfully when the next iteration of the project is due]

User Interface

References

UI photo reference:
https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.usatoday.com%2Fstory%2Ftech%2Fpersonal%2F2015%2F05%2F06%2Fyik-yak-bullying%2F70882424%2F&psig=AOvVaw11fsdR7T5vApLzCKKWG-05&ust=1603399774905000&source=images&cd=vfe&ved=0CA0QjhxqFwoTCLjt0eLHxuwCFQAAAAAdAAAAABAm

Youtube video of how a similar app would work:
https://www.youtube.com/watch?v=d7OoKJur84o&t=215s