Requirements Specification Document

Table of Contents

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Preface

This is the first version of the project KnowItAll. This document specifies all of the requirements to the app KnowItAll.

Introduction

KnowItAll is needed by both new and returning usc students. It helps guide new students as to what to do and what not to do around USC. It also lets returning students know about new things happening at USC. With this product students will be able to anonymously post polling questions and rating questions about courses, professors, places to eat, and anything else you would need to know about USC. Students will then be able to anonymously rate and post comments about these polls. Thus students will know much more about what they would like at the university and student satisfaction would increase. Student satisfaction is very important to USC, thus by increasing this, KnowItAll is benefiting USC directly.

Glossary

USC ID: Every student at USC is assigned a unique 10 digit ID number.
Rating Question: A rating question is a question that will be assigned a rating score 1 - 10 which will be the mean of all of the scores that users rate that question.
Polling Question: A polling question is a question that will provide a set of choices that users can choose from.

User Requirements Definition

The crowd-sourced rating-system KnowItAll shall provide a crowd-sourced rating system that primarily allows anyone with a valid USC (University of Southern California) ID to post reviews and ratings on various aspects of USC, including but not limited to: classes, professors, events, food, amusement parks, movies, concerts, hikes, etc.

Services

1. Allows registered users to search for helpful information regarding the quality of various aspects of USC campus life and the nearby surrounding Los Angeles community.
2. Post reviews, ratings, and polls on USC based categories
3. View a list of popular categories available at USC

Scenarios/User Stories

Referring to the slides

[2]Scenarios should include

1. A description of the starting situation;
2. A description of the normal flow of events;
3. A description of what can go wrong;
4. Information about other concurrent activities;
5. A description of the state when the scenario finishes.

1. A first-year USC student is very nervous about her first day of college. Because she's not familiar with the campus, she decides to do some research beforehand. As soon as she gets her USC student ID, she registers to a website called KnowItAll. She is able to choose her classes based on the ratings of the classes and professors. She also posts her questions about her dorm and is able to obtain some useful information. She now feels pretty confident about her first day because she already dealt with her uncertainty.

2. An international student gets accepted to USC. He is currently deciding which college to attend. He has never been to America and does not know anyone who lives near USC. It would cost him too much money to visit USC just to check out the campus. The official USC website has some information that he needs but nothing specific. Luckily, he does some research and finds out a website called KnowItAll. He looks up the ratings/polls for topics such as dorms, food, classes, and professors to get to know about the campus more. Unfortunately, he can't do that with other colleges that he got accepted to because they do not have such a website. Due to his current circumstances, it was impractical for him to visit every college. He felt pretty safe about USC because he has more information than any other college. Thus, he decides to go to USC.

3. A student has to drop a class because the class is nothing like he expected. It completely messes up his schedule because he now has to look for another class that meets his expectations AND fits in his current schedule. He chose this class based on reviews he saw on Reddit and RateMyProfessor. He realizes that some information is not as accurate or very outdated. He decides to use KnowItAll instead and was able to quickly find a class that fits him. He then makes sure to rate the class he dropped and make a comment underneath the rating, clearly explaining what he does not like about the class. After this incident, he decides to use KnowItAll instead of other websites.

4. A group of freshmen who are new to USC want to explore some fun places in downtown Los Angeles. Coming from New York, they are quite new to the west coast scene and want to look at some recommendations first. They do some research online and find some interesting websites that offer tours and discounts to some recreational areas. However, the students feel that some of the websites might be scams and the other non-suspicious looking websites offer suggestions that are either too young or too old for their taste. They finally stumble upon KnowItAll which has a category titled "places that are lit" that is chosen only by USC students. The students in the end make good use of the website because the ratings on the website match the students' tastes.

5. A journalist wants to write about colleges for her article. She decides to interview 50 people for each college she is writing about. While she is interviewing one of USC students, she gets to know about this website called KnowItAll from the student. She sees that there are many questions already answered that she can use for her article. She is able to obtain information such as best professors, classes, and etc. Because she's not a valid user, she cannot directly ask her own questions on the website. However, she saves a lot of time because she can now spend less time doing interview.

System Requirements Specification

Functional Requirements

Users and Validity

1. Every user who enters a valid USC ID number can make an account to gain rights to view and rate or comment all rating questions and polling questions of KnowItAll as well as create his/her own rating questions, polls, and reviews.
2. A guest user or visitor shall only be able to view and search for existing ratings and reviews, but not rate them or comment on them.
3. Users should be allowed to search within any existing category.
4. Users should be able to comment on polls and ratings.
5. Any valid user should be able to choose the type and the life of poll/rating of his/her creation at the time he/she creates the poll.

Ratings and Polls

1. Ratings and Polls should allow valid users for comments and ratings.
2. Every poll and rating that is created is unique and therefore shall have a unique link associated with it, so that it can be shared.
3. Only the creator of the poll/rating should be able to alter the life and options of it. All other valid users should only be able to participate into the poll or add onto the rating.

Non-functional Requirements

Ratings and Polls

1. Every poll and rating may be either open forever or only limited period.
2. Users may not see the current results of poll/rating while they are voting.
3. Polls/Ratings that are open forever should be visible to everyone all the time.
4. Users may not register for two or more different accounts with the same USC ID.

Product Requirements

Security Requirements

1. At any given page on the KnowItAll website, the state of the user should persist throughout.
   a. Any valid user who is logged in should stay logged in until they disconnect from the server and/or logout of website.

    b. Any guest should remain a read/search only user.

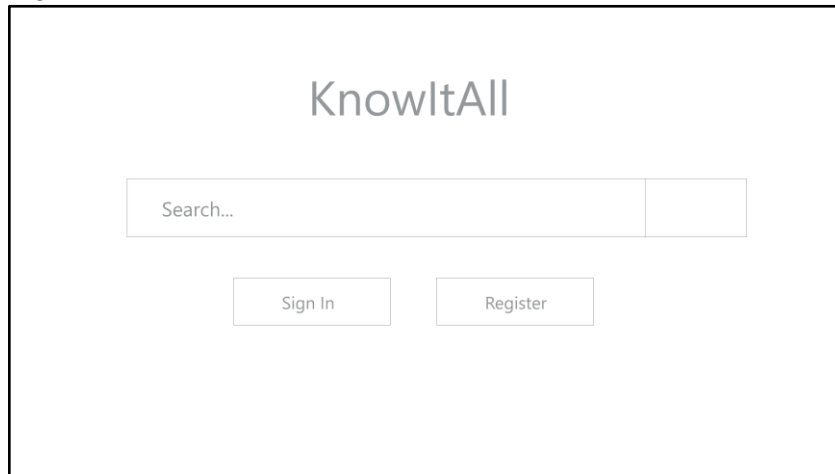## External Requirements

Ethical Requirements
  1. Any valid user registered within the database will be guaranteed complete anonymity.

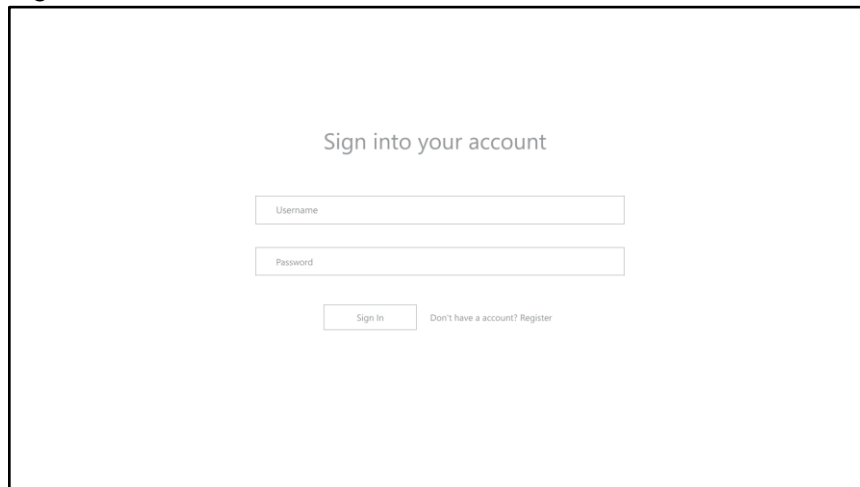# UI Appearance Requirements

 1. Landing Page
  1.1. Figure

  1.2. Both registered users and visitors have access to this page and have the choice to search for a survey, sign into their account, or register their account.
  1.3. The search button directs the user to the Feed Page, the sign-in button directs the user to the Sign-in Page, and the register button directs the user to the Register Page.
 2. Sign-in Page
  2.1. Figure

2.2. A registered user can sign into their account with a valid username and password combination. If a user is not registered yet, they can click on the register link to register.

2.3. If the user fails to sign in with a valid username and password combination or fails to fill in all input fields, then an error message will be displayed.

2.4. The sign-in button will direct the user to the Feed Page and the register link will direct the user to Register Page.

3. Register Page
3.1. Figure

3.2. An unregistered user can create an account with a valid USC ID. If the user is already a registered user, they can click on the sign-in link to sign into their account.

3.3. If the user provides an invalid USC ID or fails to fill in all input fields, then an error message will be displayed.

3.4. The register button will direct the user to the Feed Page and the sign-in link will direct the user to the Sign-in Page.

4. Navigation Bar
4.1. The navigation bar for a registered user will have the links KnowItAll, Profile, and Logout.
   4.1.1. KnowItAll directs the user to the Feed Page, Profile directs the user to the Profile Page, and Logout directs the user to the Landing Page.

4.2. The navigation bar for a visitor will have the links to KnowItAll, Sign in, and Register.
   4.2.1. KnowItAll directs the user to the Feed Page, Sign in directs the user to Sign-in Page, and Register directs the user to the Register Page.
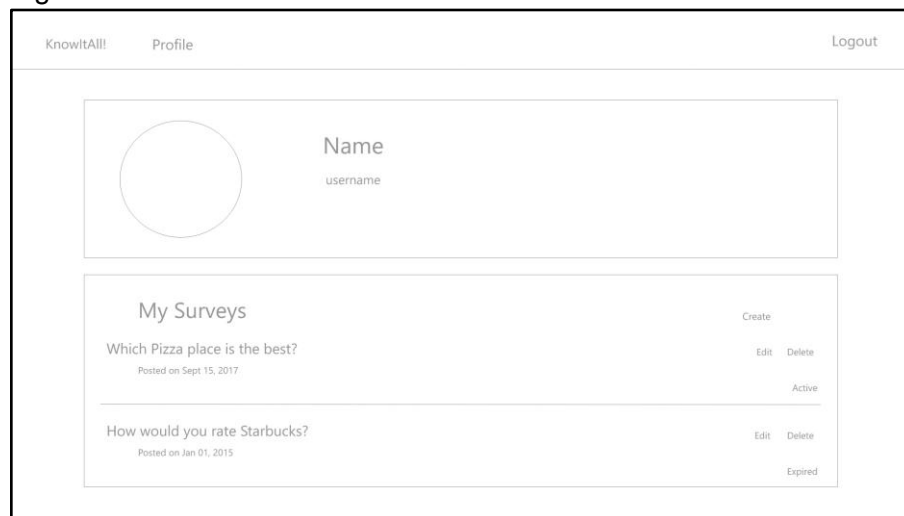
5. Feed Page

5.1. Figure
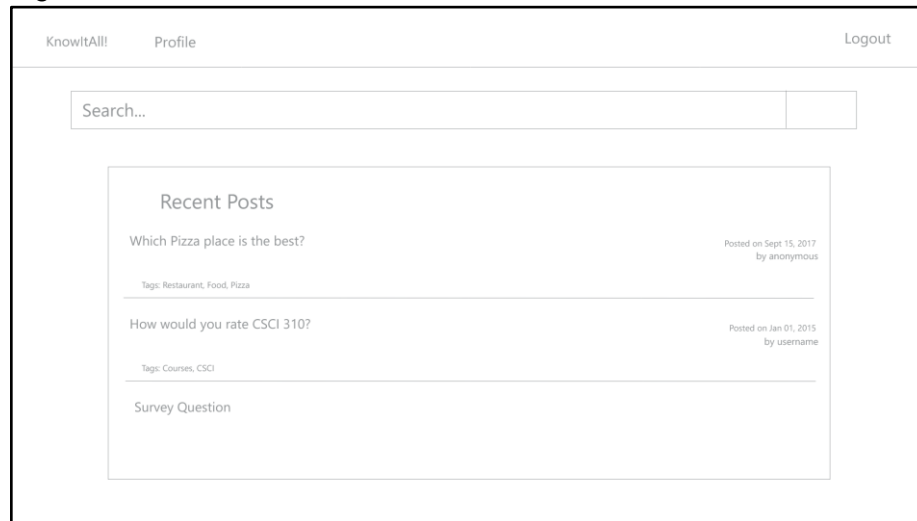
5.2. Both registered users and visitors have access to this page. The search bar lets users search for words relating to surveys to they want to see. The search results will appear underneath.

5.3. The user can click into a post, and this will direct them to the View Survey Page of the survey.

6. Profile Page

6.1. Figure

6.2. All registered users have their own profile page. Only registered users have access to this page.

6.3. The Profile Page displays basic information about the user, such as their name, username, and pictures.

6.4. The Profile Page displays all surveys, including both active and expired surveys, created by the user. From here, the user can manage their surveys.

6.4.1. The create button lets the user create a new survey and directs the user to the Create Survey Page.

6.4.2. The edit button lets the user edit the survey.

6.4.3.   The delete button lets the user delete the survey.
7.   Create Survey Page
    7.1.   Figure

    7.2.   The Create Survey Page allows the user to create a survey, which is a poll or a rating. Only registered users will have access to this page.
    7.3.   Users fill out basic information about the survey including the survey name, the survey type, the lifetime of the poll, whether the results of the poll is private or public, whether they want to post as an anonymous user, and relevant tags associated with the survey.
    7.4.   Both the create button and the cancel button will direct the user back to the Profile Page.
8.   View Survey Page
    8.1.   Figure

    8.2.   The View Survey Page displays the survey question, basic information about the survey, the results of the survey (if the survey is opened forever, or if the survey

is opened for a limited time and the creator of the survey allowed the results to be public), and user comments.

8.3. Both registered users and visitors have access to the page. However, the voting section would not be visible to visitors as visitors cannot vote.

System Models

Context Diagram

Process Diagram

USER

USER: User → Register Request → Able to Search, View, Rate, Review and Create polls

All users (verified / visitors) can see current polling result

poll is visible

WEBSITE-ADMIN

Verify USC ID (Review request) → Approved?

Yes / No

Create Rating

Create Poll

Categorize Polling

Visible While Voting??

Can only see the result after polling is finished

Deleted by user? (Creator)

Delete from the website

Categorize Rating

Open limited time?

Not visible after assigned time period

USER / VISITOR

Search and View Only

All users (verified / visitors) can view ratings

poll is visible