Software Requirements Specification

for

Yelp Database Project

Team: 2

Project: CPTS 322 & 451 Yelp Database

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Last Updated: 2-17-2019

# 9. Use Cases

The yelp database must be capable of handling use cases for each actor, which are; an Unregistered User, a Registered User, a Business (Which is a subclass of a Registered User), and a Moderator. The system should be able to handle tasks that you would expect from any user-based platform such as Registering an account, logging in, and rating/reviewing businesses. As well as a suite of features for Businesses to list themselves on the database. The system must also have measures in place to moderate what is seen and keep things appropriate.

## 9.1 Yelp Database Use Cases

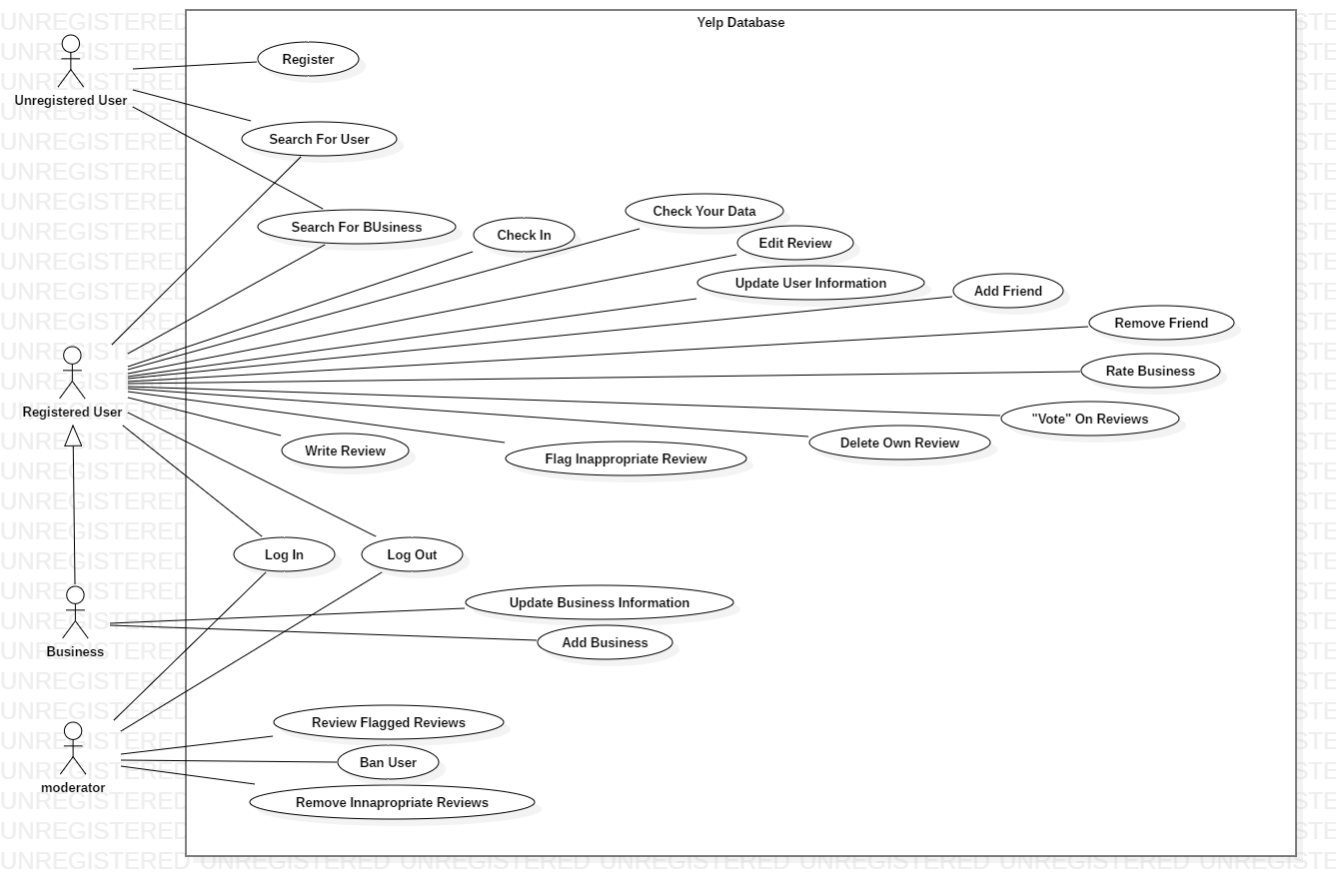


Figure 9-1 Use Case: User Interaction with Yelp Database

9.1.1 Register

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 1)** | | Use Case Name | **Register** | |
| Created by | Isaac Schultz | Last Updated by | Isaac Schultz | |
| Date Created | 2-17-2019 | Date Last Updated | 2-17-2019 | |
| Actor | | Unregistered user | | |
| Description | | Creating a registered user account. | | |
| Preconditions | | The user does not have an account | | |
| Post conditions | | The user is signed in and now has an account | | |
| Priority: (low/medium/high) | | High | | |
| Frequency of Use | | Often | | |
| Normal Course | | **UC-1: Register** | | |
|  | | **Actor Actions**  1. Create Username + password  3. Input user information (name, age…) | | **System Responses**  2. Add user to database. |
| Alternative Course | | User will add information later. | |  |
|  | | **Actor Actions**  1. Create Username + password | | **System Responses**  2. Add user to database. |
| Exceptions | | Username already exists | |  |
|  | | **Actor Actions**  1. Pick a new username | | **System Responses**  **2. Add user to database** |
| Includes (another use case id) | | None | | |
| Special requirements | | N/A | | |
| Assumptions | | Usernames must be unique | | |
| Notes and issues | | N/A | | |

## **9.1.2 Search For User**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 2)** | | Use Case Name | **Search for User** | |
| Created by | Isaac Schultz | Last Updated by | Isaac Schultz | |
| Date Created | 2-17-2019 | Date Last Updated | 2-17-2019 | |
| Actor | | Registered or Unregistered User | | |
| Description | | Searches the database for users and displays their information and reviews. | | |
| Preconditions | | N/A | | |
| Post conditions | | Displays results of the search | | |
| Priority: (low/medium/high) | | Medium | | |
| Frequency of Use | | Very Often | | |
| Normal Course | | **UC-2: Search for User** | | |
|  | | **Actor Actions**  1. Search for other users | | **System Responses**  2. Display all relevant users based on the search criteria. |
| Alternative Course | |  | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | | No users returned from search | |  |
|  | | **Actor Actions**  1. Search for other users | | **System Responses**  **2. Tell user that there are no results** |
| Includes (another use case id) | | UC-1, UC–16 | | |
| Special requirements | | N/A | | |
| Assumptions | | User database is efficiently searchable for a query to be served in a short amount of time. | | |
| Notes and issues | | N/A | | |

9.1.3 Search for Business

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 3)** | | Use Case Name | **Search for Business** | |
| Created by | Isaac Schultz | Last Updated by | Isaac Schultz | |
| Date Created | 2-17-2019 | Date Last Updated | 2-17-2019 | |
| Actor | | Registered or Unregistered User | | |
| Description | | Searches the database for Businesses and displays their information and reviews. | | |
| Preconditions | | N/A | | |
| Post conditions | | Displays results of the search | | |
| Priority: (low/medium/high) | | High | | |
| Frequency of Use | | Very Often | | |
| Normal Course | | **UC-3: Search for Business** | | |
|  | | **Actor Actions**  1. Search for businesses | | **System Responses**  2. Display all relevant businesses based on the search criteria. |
| Alternative Course | | N/A | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | | No businesses returned from search | |  |
|  | | **Actor Actions**  1. Search for businesses | | **System Responses**  **2. Tell user that there are no results** |
| Includes (another use case id) | | UC-1, UC–16 | | |
| Special requirements | | N/A | | |
| Assumptions | | That business attributes such as location and food types are stored indexed in the database. | | |
| Notes and issues | | N/A | | |

9.1.4 Check in

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 4)** | | Use Case Name | **Check in** | |
| Created by | Isaac Schultz | Last Updated by | Isaac Schultz | |
| Date Created | 2-17-2019 | Date Last Updated | 2-17-2019 | |
| Actor | | Registered User | | |
| Description | | Create a “Check in” from a registered user for a certain business at a certain time | | |
| Preconditions | | User is logged in and on database when they are physically at the business. | | |
| Post conditions | | The system now knows the user checked in at the location. | | |
| Priority: (low/medium/high) | | Medium | | |
| Frequency of Use | | Often | | |
| Normal Course | | **UC-4: Check in** | | |
|  | | **Actor Actions**  1. Check in at a selected business | | **System Responses**  2. Log the user check-in in the database. |
| Alternative Course | | N/A | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | | N/A | |  |
|  | | **Actor Actions** | | **System Responses** |
| Includes (another use case id) | | UC-1, UC-3, UC–16 | | |
| Special requirements | | N/A | | |
| Assumptions | | The user is logged in and registered and is physically at the business they are checking in to. | | |
| Notes and issues | |  | | |

9.1.5 Check Your Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 5)** | | Use Case Name | **Check Your Data** | |
| Created by | Isaac Schultz | Last Updated by | Isaac Schultz | |
| Date Created | 2-17-2019 | Date Last Updated | 2-17-2019 | |
| Actor | | Registered User | | |
| Description | | Look at your “profile page” and read through your data. Name, average stars, etc… | | |
| Preconditions | | User is not at their profile page. | | |
| Post conditions | | User is at their profile page. | | |
| Priority: (low/medium/high) | | High | | |
| Frequency of Use | | Not Often | | |
| Normal Course | | **UC-5: Check Your Data** | | |
|  | | **Actor Actions**  1. Select to view user profile | | **System Responses**  2. Display data about the user from. |
| Alternative Course | | N/A | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | | User is not logged in | |  |
|  | | **Actor Actions**  1. Select to view user profile | | **System Responses**   2. Prompt user to register or sign in. |
| Includes (another use case id) | | UC-1, UC–16 | | |
| Special requirements | | N/A | | |
| Assumptions | | User is registered and logged in. | | |
| Notes and issues | |  | | |

9.1.6 Edit Review

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 6)** | | Use Case Name | **Edit Review** | |
| Created by | Isaac Schultz | Last Updated by | Isaac Schultz | |
| Date Created | 2-17-2019 | Date Last Updated | 2-17-2019 | |
| Actor | | Registered User | | |
| Description | | Allows a registered user to edit one of their previously written reviews | | |
| Preconditions | | N/A | | |
| Post conditions | | Users Review is updated to reflect the changes. | | |
| Priority: (low/medium/high) | | low | | |
| Frequency of Use | | Not Often | | |
| Normal Course | | **UC-6: Edit Review** | | |
|  | | **Actor Actions**  1. Select Review to edit  3. Edit Review | | **System Responses**  2. Show user that review and allow them to edit it.  4. Save Changes to the review in the database. |
| Alternative Course | | N/A | |  |
| Exceptions | | User cancels changes | |  |
|  | | **Actor Actions**  1. Cancel Edit | | **System Responses**  2. Do Not Save Changes and exit edit page. |
| Includes (another use case id) | | UC-1, UC-3, UC-14, UC–16 | | |
| Special requirements | | N/A | | |
| Assumptions | | User has written at least one review. | | |
| Notes and issues | | This may be problematic because a user can change their review after another user has responded, and it could change the context of the response. For instance, A user could leave a positive text review and a business could respond with a “thank you.” The user could then change their review to be negative to the business and it would appear that the business was agreeing with them in their response. | | |

9.1.7 Update User Information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 7)** | | Use Case Name | **Update User Information** | |
| Created by | Isaac Schultz | Last Updated by | Isaac Schultz | |
| Date Created | 2-17-2019 | Date Last Updated | 2-17-2019 | |
| Actor | | Registered User | | |
| Description | | Allows a user to edit their information (Name, Location, etc…) | | |
| Preconditions | | User is signed in | | |
| Post conditions | | User is signed in | | |
| Priority: (low/medium/high) | | Low | | |
| Frequency of Use | | Not Often | | |
| Normal Course | | **UC-7: Update User Information** | | |
|  | | **Actor Actions**  1. Select to update their information.  3. Edit their information. | | **System Responses**  2. Display current user info and allow them to edit it.  4. Save changes to the database. |
| Alternative Course | | N/A | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | |  | |  |
|  | | **Actor Actions** | | **System Responses** |
| Includes (another use case id) | | UC – 16 | | |
| Special requirements | | N/A | | |
| Assumptions | | User is signed in and registered. That user is not allowed to change things like Age. | | |
| Notes and issues | |  | | |

9.1.8 Add Friend

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 8)** | | Use Case Name | **Add Friend** | |
| Created by | Joshua Bennett | Last Updated by | Joshua Bennett | |
| Date Created | 2/17/2019 | Date Last Updated | 2/17/2019 | |
| Actor | | Registered User | | |
| Description | | Update Friends list | | |
| Preconditions | | Logged in | | |
| Post conditions | | Added to friends List | | |
| Priority: (low/medium/high) | | High | | |
| Frequency of Use | | Often | | |
| Normal Course | | **UC-8: Add Friend** | | |
|  | | **Actor Actions**  1. Indicate Desire to Add Friend  3. Modify Friend List | | **System Responses**  2. Open Friend List  4. Replace Current with Modified |
| Alternative Course | |  | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | |  | |  |
|  | | **Actor Actions**   1. Friend Added is invalid | | **System Responses**   1. Current user doesn’t exist |
| Includes (another use case id) | | UC-1, UC-2, UC-16 | | |
| Special requirements | | N/A | | |
| Assumptions | | Assumes a user interface exists and has been initialized. | | |
| Notes and issues | | N/A | | |

9.1.9 Remove Friend

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 9)** | | Use Case Name | **Remove Friend** | |
| Created by | Joshua Bennett | Last Updated by | Joshua Bennett | |
| Date Created | 2/17/2019 | Date Last Updated | 2/17/2019 | |
| Actor | | Registered User | | |
| Description | | Update Friends list | | |
| Preconditions | | Have a current friend, logged in | | |
| Post conditions | | Removed from friends List | | |
| Priority: (low/medium/high) | | High | | |
| Frequency of Use | | Often | | |
| Normal Course | | **UC-9: Case Remove Friend** | | |
|  | | **Actor Actions**   1. Indicate Desire to Remove Friend   3. Modify Friend List | | **System Responses**  2. Open Friend List  4. Replace Current with Modified |
| Alternative Course | |  | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | |  | |  |
|  | | **Actor Actions**   1. Friend removed is invalid | | **System Responses**   1. Current user doesn’t exist |
| Includes (another use case id) | | UC-1, UC-2, UC-8, UC-16 | | |
| Special requirements | | N/A | | |
| Assumptions | | Assumes a user interface exists and has been initialized. | | |
| Notes and issues | | N/A | | |

9.1.10 Rate Business

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 10)** | | Use Case Name | **Rate Business** | |
| Created by | Joshua Bennett | Last Updated by | Joshua Bennett | |
| Date Created | 2/17/2019 | Date Last Updated | 2/17/2019 | |
| Actor | | Registered User | | |
| Description | | Gives a rating to a business, logged in | | |
| Preconditions | | Logged in | | |
| Post conditions | | Rated chosen business | | |
| Priority: (low/medium/high) | | High | | |
| Frequency of Use | | Very Often | | |
| Normal Course | | **UC-10: Case Rate Business** | | |
|  | | **Actor Actions**  1. Indicate Desire to Rate Business  3. Modify Business Rating | | **System Responses**  2. Open System rating option  4. Replace Current with Modified rating |
| Alternative Course | |  | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | |  | |  |
|  | | **Actor Actions**   1. Desired rating is invalid | | **System Responses**   1. That option doesn’t exist |
| Includes (another use case id) | | UC-1, UC-3, UC-4, UC-16 | | |
| Special requirements | | N/A | | |
| Assumptions | | Assumes a user interface exists and has been initialized. Assumes business is stored in database | | |
| Notes and issues | | N/A | | |

9.1.11 Vote on Reviews

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 11)** | | Use Case Name | **Vote on Reviews** | |
| Created by | Joshua Bennett | Last Updated by | Joshua Bennett | |
| Date Created | 2/17/2019 | Date Last Updated | 2/17/2019 | |
| Actor | | Registered User | | |
| Description | | Vote on a review, logged in | | |
| Preconditions | | Business needs to have a review | | |
| Post conditions | | Review on business voter rating is adjusted | | |
| Priority: (low/medium/high) | | High | | |
| Frequency of Use | | Often | | |
| Normal Course | | **UC-11: Case Vote on Reviews** | | |
|  | | **Actor Actions**  1. Indicate Desire to Vote on review  3. Modify Review rating | | **System Responses**  2. Open review rating option  4. Replace Current with Modified |
| Alternative Course | |  | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | |  | |  |
|  | | **Actor Actions**   1. Friend rating is invalid | | **System Responses**   1. That option doesn’t exist |
| Includes (another use case id) | | UC-1, UC-3, UC-4, UC-6, UC-7, UC-10, UC-12, UC-13, UC-14, UC-16 | | |
| Special requirements | | N/A | | |
| Assumptions | | Assumes a user interface exists and has been initialized. Reviews are stored in database | | |
| Notes and issues | | N/A | | |

9.1.12 Delete own review

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 12)** | | Use Case Name | **Delete own review** | |
| Created by | Joshua Bennett | Last Updated by | Joshua Bennett | |
| Date Created | 2/17/2019 | Date Last Updated | 2/17/2019 | |
| Actor | | Registered User | | |
| Description | | Update Reviews | | |
| Preconditions | | Have a current review, logged in | | |
| Post conditions | | Removed review | | |
| Priority: (low/medium/high) | | High | | |
| Frequency of Use | | Common | | |
| Normal Course | | **UC-12: Case Delete own review** | | |
|  | | **Actor Actions**  1. Indicate desired review  3. Delete Review | | **System Responses**  2. Open review  4. Replace Current with Modified |
| Alternative Course | |  | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | |  | |  |
|  | | **Actor Actions** | | **System Responses** |
| Includes (another use case id) | | UC-1, UC-3, UC-4, UC-5, UC-6, UC-7, UC-10, UC-12, UC-13, UC-14, UC-16 | | |
| Special requirements | | N/A | | |
| Assumptions | | Assumes a user interface exists and has been initialized. Reviews are stored in database | | |
| Notes and issues | | N/A | | |

9.1.13 Flag Inappropriate Review

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 13)** | | Use Case Name | **Flag Inappropriate Review** | |
| Created by | Joshua Bennett | Last Updated by | Joshua Bennett | |
| Date Created | 2/17/2019 | Date Last Updated | 2/17/2019 | |
| Actor | | Registered User | | |
| Description | | Flag a Review | | |
| Preconditions | | User is logged in, have access to review | | |
| Post conditions | | Flagged a review | | |
| Priority: (low/medium/high) | | High | | |
| Frequency of Use | | Often | | |
| Normal Course | | **UC-13: Case Flag Inappropriate review** | | |
|  | | **Actor Actions**  1. Indicate Desired review  3. Flag review for Inappropriate content | | **System Responses**  2. open review |
| Alternative Course | | N/A | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | | N/A | |  |
|  | | **Actor Actions** | | **System Responses** |
| Includes (another use case id) | | UC-3, UC-4, UC-5, UC-6, UC-7, UC-8, UC-9, UC-10, UC-11, UC-13, UC-14 | | |
| Special requirements | | N/A | | |
| Assumptions | | Assumes a user interface exists and has been initialized. Reviews are stored in database | | |
| Notes and issues | | N/A | | |

9.1.14 Write Review

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use Case ID **(UC – 14)** | | Use Case Name | **Write Review** | |
| Created by | Joshua Bennett | Last Updated by | Joshua Bennett | |
| Date Created | 2/17/2019 | Date Last Updated | 2/17/2019 | |
| Actor | | Registered User | | |
| Description | | Write Review | | |
| Preconditions | | User is logged in | | |
| Post conditions | | Added a review | | |
| Priority: (low/medium/high) | | High | | |
| Frequency of Use | | Very Often | | |
| Normal Course | | **UC-14: Case Write Review** | | |
|  | | **Actor Actions**  1. Indicate Desire to write review  3. Write review | | **System Responses**  2. open review for specific business |
| Alternative Course | | N/A | |  |
|  | | **Actor Actions** | | **System Responses** |
| Exceptions | | N/A | |  |
|  | | **Actor Actions**   1. Inappropriate wording on review | | **System Responses**   1. Invalid review |
| Includes (another use case id) | | UC-3, UC-4, UC-5, UC-6, UC-7, UC-8, UC-9, UC-10, UC-11, UC-12, UC-14 | | |
| Special requirements | | N/A | | |
| Assumptions | | Assumes a user interface exists and has been initialized. | | |
| Notes and issues | | N/A | | |