CS 411 - Use Cases

Use Cases

for Loc-Fun

Version 4.0

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Primary Use Cases and Description

* Login:

This use case will be initiated by visiting the login page, or trying to access a page that requires being logged in. It will prompt the user to login with username, and password, or will link them to the page to create an account. After logging in, the user will be redirected to the login page.

* Make an account

The user will create and update their profile information by entering a username, password, and email. The account created will be used by the bookmarking system.

* Search for events

This use case covers the search feature of the website. Upon navigating to the website, the user will be prompted with a search bar. The user will also be prompted to allow geolocation, which will be used in the search. The user can enter search terms and how far away events can be, and they will receive a list of events matching these criteria. This will display basic information about the events and allow the user to bookmark an event, will give a link to purchase a ticket to the event, and will provide a link to get more data about the event, including weather and map data.

* Get information on a chosen event

This use case will display information about the event including its name, description, cost, location, date, a weather forecast for the event, and a link to purchase tickets or RSVP for the event. The user will also have the option of marking that they are interested in attending the event through bookmarking, which will be used in the popular events use case.

* Popular Events

This use case displays the events that are most popular in the user’s area, without them entering any search criteria. This will use the users’ bookmarks, determining popular events by their bookmark count.

Use Case 1

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| --- | --- | --- | --- |
| Use Case ID: | 1 | | |
| Use Case Name: | Login | | |
| Created By: | Wenjing Lyu | Last Updated By: | Adrian Baker |
| Date Created: | 10/31/2016 | Date Last Updated: | 12/03/2016 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | Log into an existing account with a username and password. |
| Trigger: | Click the “Log in” button, in a dropdown menu under “Not logged in” in the top-right corner of the homepage. |
| Preconditions: | The account information that the user inputs has been stored in the database. |
| Postconditions: | The user is logged into their account |
| Normal Flow: | 1.0.0 User clicks “Log in” on the homepage and is taken to login page  1.0.1 User types in existing username and password  1.0.2 User clicks “Log in” and is returned to the homepage |
| Alternative Flows: | 1.1.0 When logging in, user checks “Remember me” box  1.1.1 In future returns to the app, user is still logged in when arriving at the homepage |
| Exceptions: | 1.0.E.1 User enters account information that is not in the database  The app will tell the user to verify that their information was entered correctly  1.0.E.2 User enters email address instead of username in the username field  The app will tell the user to make sure they enter their username |
| Includes: | N/A |
| Priority: | High |
| Frequency of Use: | At least once per app use (often) |
| Business Rules: | None |
| Special Requirements: | None |
| Assumptions: | GPS is functional |
| Notes and Issues: | If the function fails to interpret the search terms or retrieve good results, the team will share responsibility in addressing the issue. |

Use Case 2

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| --- | --- | --- | --- |
| Use Case ID: | 2 | | |
| Use Case Name: | Make an account | | |
| Created By: | Adrian Baker | Last Updated By: | Adrian Baker |
| Date Created: | 10/31/2016 | Date Last Updated: | 12/03/2016 |

|  |  |
| --- | --- |
| Actors: | User |
| Description: | Create an account for future use on the app |
| Trigger: | Click the “Sign up” button, in a dropdown menu under “Not logged in” in the top-right corner of the homepage |
| Preconditions: | User has been geo-located |
| Postconditions: | User information have been updated and saved in database |
| Normal Flow: | 2.0.0 User clicks “Sign up” on the homepage and is taken to the signup page  2.0.1 User fills out the username, email, password, and confirm password fields  2.0.2 User clicks “Sign up” and is returned to the homepage  2.0.3 User is shown a verification message saying that they have signed up for the app |
| Alternative Flows: | None |
| Exceptions: | 2.0.E.1 User enters a username that already exist in the database  The system will tell the user to choose another username  2.0.E.2 User enters invalid username  The system will tell the user to only use the characters A-Z, 0-9, \_.  2.0.E.2 User enters an invalid email address (no ‘@’/domain extension)  The system will tell the user that it is an invalid email address  2.0.E.3 User enters a password that doesn’t meet requirements (6-35 characters)  The system will tell the user to enter a valid password |
| Includes: | 1 |
| Priority: | Medium |
| Frequency of Use: | Should be filled out once when the user signs up (perhaps sometimes updated later on); infrequent |
| Business Rules: | None |
| Special Requirements: | None |
| Assumptions: | User is logged in |
| Notes and Issues: | If the function fails to interpret the search terms or retrieve good results, the team will share responsibility in addressing the issue. |

Use Case 3

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| --- | --- | --- | --- |
| Use Case ID: | 3 | | |
| Use Case Name: | Event Search | | |
| Created By: | Everyone | Last Updated By: | Adrian Baker |
| Date Created: | 10/2/2016 | Date Last Updated: | 12/03/2016 |

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| --- | --- |
| Actors: | User |
| Description: | Search for nearby events according to chosen criteria |
| Trigger: | User clicks the “search” button on the homepage |
| Preconditions: | 1. App has successfully geolocated the user 2. User has correctly chosen search criteria |
| Postconditions: | 1. Events are fetched via APIs and displayed |
| Normal Flow: | 3.0.0 User types in keywords in the “Search for Events” field  3.0.1 User specifies a range of 2km, 5km, 10km, 20km, or “Don’ Care”  3.0.2 User specifies preferred type of event: Concert, Party, Bar, Festival, or Sports  3.0.3 User clicks “Search” and is shown results |
| Alternative Flows: | 3.1.0 User types in keywords  3.1.1 User neglects to specify preferred range and/or event type  3.1.2 User clicks “Search” and is shown results anyway (less personalized results) |
| Exceptions: | 3.0.E.1 User does not enter a search query  The system will tell the user that the search term field is mandatory  3.0.E.2 No events are found  The system will display a page saying no events were found, and suggest that the user edit preferences/search options to be more generic.  3.0.E.3 The user does not have GPS enabled or GPS location does not work correctly  The website will prompt the user to enable GPS location, and notify the user that their location could not be found (in case of GPS issues).  3.0.E.4 Any other error preventing the service from conducting an event search  Display a static error message and log the circumstances under which the failure occurred for further investigation. |
| Includes: | 3 and 4 |
| Priority: | High |
| Frequency of Use: | At least once per app use (often) |
| Business Rules: | N/A |
| Special Requirements: | N/A |
| Assumptions: | GPS is functional |
| Notes and Issues: | If the function fails to interpret the search terms or retrieve good results, the team will share responsibility in addressing the issue. |

Use Case 4

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| Use Case ID: | 4 | | |
| Use Case Name: | Get Information on a Chosen Event | | |
| Created By: | Caitlin Wurz | Last Updated By: | Adrian Baker |
| Date Created: | 10/31/2016 | Date Last Updated: | 12/03/2016 |

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| --- | --- |
| Actors: | User |
| Description: | Hit API and gather specific information on Event |
| Trigger: | 1. User clicks on the “More Info” button under an event on the search results page |
| Preconditions: | 1. User has been geo-located and performed a search 2. Event Title is displayed on screen 3. User has clicked on the Event Title |
| Postconditions: | 1. Information about the Event was correctly retrieved from the API |
| Normal Flow: | 4.0.0 Event Title with link is displayed on search page  4.0.1 User clicks on Event “More info” button  4.0.2 User is taken to a page that retrieves and displays:   * the event information from the API (date, location, cost, description) * weather information, based on user’s geo-location * a Google Maps interface for directions to the event |
| Alternative Flows: | 4.1.0 Event Title with link is displayed on Popular Events page  4.1.1 User clicks on Event “More info” button  4.1.2 User is taken to the same page described in 4.0.2 |
| Exceptions: | 4.0.E.1 No additional information about event is retrieved from database  Basic information already displayed on the main page about the event remains displayed |
| Includes: | Use case 3 and 5 |
| Priority: | High |
| Frequency of Use: | At least once per app use |
| Business Rules: | N/A |
| Special Requirements: | N/A |
| Assumptions: | N/A |
| Notes and Issues: | If the function fails to interpret the search terms or retrieve good results, the team will share responsibility in addressing the issue. |

Use Case 5

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| Use Case ID: | 5 | | |
| Use Case Name: | Popular Events | | |
| Created By: | Chet Powers | Last Updated By: | Adrian Baker |
| Date Created: | 10/31/2016 | Date Last Updated: | 12/03/2016 |

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| --- | --- |
| Actors: | User |
| Description: | The “Popular Events” page site will suggest popular events to the user without them having to search for these events. |
| Trigger: | 1. Navigation to the “Popular Events” page from the menu on the homepage |
| Preconditions: | 1. App has successfully geolocated the user |
| Postconditions: | 1. Popular local events have been displayed to the user. |
| Normal Flow: | 5.0.0 User is geolocated  5.0.1 User clicks “Popular Events” on the homepage  5.0.2 Nearby events are found.  5.0.3 These events are displayed to the user. |
| Alternative Flows: | 5.1.0 User logs in first.  5.1.1 User is geolocated.  5.1.2 User navigates to the index page.  5.1.3 Nearby events are found.  5.1.4 These events are displayed to the user. |
| Exceptions: | 5.0.E.1 User cannot be geolocated  The system will prompt the user to enable GPS location and notify the user that their location could not be found.  5.0.E.2 There are no local events, or all local events have been filtered out.  Inform the user that no local events could be found, and suggest that the user edit their preferences if they want to find events.  5.0.E.3 Any other error preventing the service from conducting an event search  Display a static error message and log the circumstances under which the failure occurred for further investigation. |
| Includes: | 4. Displays some info on the events that were found. |
| Priority: | Low |
| Frequency of Use: | Depending on how often user wishes to receive recommendations (low-medium) |
| Business Rules: | N/A |
| Special Requirements: | N/A |
| Assumptions: | GPS is functional |
| Notes and Issues: | N/A |

Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Everyone | 10/2/16 | Initial creation | 1 |
| Everyone | 10/31/16 | Revised use cases, finished remaining | 2 |
| Chet | 12/3/16 | Updated list of use cases at the top of the document | 3 |
| Adrian | 12/3/16 | Updated the 5 use cases to reflect finalized app | 4 |

Use Case List

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| --- | --- | --- |
| ID | Primary Actor | Use Case Title |
| 1 | User | Login Page |
| 2 | User | Make an account |
| 3 | User | Event Search |
| 4 | User | Get Info on Event |
| 5 | User | Popular Events |