# Requirements Specification

All requirements should be verifiable. For example, experienced controllers shall be able to use all the system functions after a total of two hours training. After this training, the average number of errors made by experienced users shall not exceed two per day.

## Functional requirements

### Use Case Diagram

Each requirement should be uniquely identified with a sequence number or a meaningful tag of some kind.

The Use Case Diagram provides an overview of all functional requirements.

### Requirement 1: Events Population

This is where a Business can add an Event so that users can select one.

#### Description & Priority

This is a vital part of the Web Application. These Events will be added by the Business so that a Customer can select them and book them. Without this requirement, the application would not work.

#### Use Case

Event population

**Scope**

The scope of this use case is to for a Business to create Events on the Web Application. When created, the Business can create a new Event or edit their own Events or view other public Events that have been previously added and approved.

**Description**

This use case describes how a Business can add an Event by inputting relevant data into text fields, or selecting the likes of a calendar and time drop-down menu. All new Events must be validated by an Admin (for likes of payment, profanity, etc.).

**Flow Description**

**Precondition**

* Admins must approve new events before they are live on the Web Application.
* Admins are always logged in
* Admins must check new Events for profanity, errors and misspellings and/or confirm changes with Business.
* Business have previously created an account.
* The communication between the Server/Internet and the Web Application must be connected (via mobile Wi-Fi).
* If required, the Server and Web Application need to have the latest updates.
* When an Event is “live”, this means that the event is public for the Customer.
* Many pages exist within the app
* A Database stores the events.

**Activation**

This use case starts when a Business wishes to sign in to their previously created account and create a new event.

**Main flow**

1. The System is currently in a wait state on the Main Page, waiting for a button to be tapped. The buttons are; “Log in/Sign up”, “Continue as Guest” and “Business Log in/Sign up”.
2. The Business selects “Business Log in/Sign up”.
3. The Business enters in their username and password.
4. System displays buttons “Create new event”, “Edit event” and “Search live events”
5. The Business selects “Create new event”.
6. System displays “New event page”. The page contains text boxes for the Business to input data.
7. The Business inputs the title.
8. The Business inputs the address.
9. The Business checks the Google Maps marker and edits it if necessary.
10. The Business inputs the phone number and/or email for event enquires.
11. The Business selects a date from a calendar.
12. The Business selects a time from a drop-down menu.
13. The Business selects whether Transport is included (Yes/No option)
14. <See A1>
15. The Business selcts “No” option.
16. The Business selects Save.
17. System sends data to Database on the server.
18. System displays message “Your Event has been received and will be checked by an admin before going live”.
19. The Business can log out or browse their own events or other public events.
20. Admin receives notification there’s a new event.
21. Admin checks event for profanity, spelling errors, etc.
22. Admin checks for payment from Business (outside System)
23. Admin approves Event provided there’s payment (outside system).
24. Event is live.

**Alternate flow**

A1 : Transport selection is “Yes”

12. The Business inputs Transport company.

13. The Business inputs pickup location and time.

14. The Business inputs drop-off location (if different from event)

15. The Business inputs return pickup location (if different from event) and time.

16. The Business inputs return drop off (if different from original pick up location).

17. <Returns to Step 13 in Main flow>

**Exceptional flow**

E1 : Network connection lost when Business is creating Event

1. The System is unable to connect to the Server or the Internet due to (e.g.) Server being upgraded.
2. The System saves the current page and the inputs from the Business.
3. The System send an email to Admin with error message.
4. Business is logged out by System.
5. Network connectivity returns.
6. Business logs back in.
7. System displays the page the Business was on.
8. <Returns to Step 12 in Main Flow>

**Termination**

This use case is terminated when the Admin or Business has completed creating a new account.

**Post condition**

The system goes into a wait state and is ready for input, or for the Admin or Business to sign out of their account.

### Requirement 2: Search Events.

#### Description & Priority

Search Events is where a Customer can search for events within the Web Application. This is a very important part of the Application, as without it, Customers would not be able to proceed to booking events.

#### Use Case

Search Events

**Scope**

The scope of this use case is allow Customers to search for events by searching via text and Google Maps. When the Customer selects an Event they wish to attend, the use case ends.

**Description**

This use case describes the how the Customer will input text and/or select a location from Google Maps. Nearby events will show on the map for the Customer to select.

**Flow Description**

**Precondition**

* The Customer is logged in
* The network connectivity between the Web Application and the Server and/or Internet is connected.
* The user’s location is pre-set
* “Search page” is where the System shows the following buttons: “Search events” and “Your events”. Other buttons are present but not important for this Use Case.
* “Maps page” is where an embedded, interactive Google Maps map with markers or nearby events is shown along with a short list of the most popular apps.
* “Event page” is where information about an Event is shown for the Customer. It also contains “Back” and “Continue” buttons.
* It is assumed that the Customer can only book one Event per booking or “transaction”.

**Activation**

This use case starts when a Customer taps “Search Events” within the Application.

**Main flow**

1. The System identifies that the Customer is logged in and that the network remains connected.
2. System displays buttons on “Search page”.
3. The Customer taps “Search events”.
4. The System changes page to “Maps page”.
5. Customer selects an event from the list or select a marker on the map.
6. System shows Event Page.

<See A1>

1. Customer selects “Continue”. Customer has successfully searched for an event

**Alternate flow**

A1 : Customer does not like event, searches for another one.

1. The Customer selects “Back”

<Returns to Step 5 in Main Flow”

**Exceptional flow**

E1 : <title of E1>

1. The system …………..
2. The <Actor> ………….
3. The use case continues at position 4 of the main flow

**Termination**

The system presents the next ……….

**Post condition**

The system goes into a wait state

**List further functional requirements here, using the same structure as for Requirements 1 & 2. Most systems would have at least five main requirements.**