## Use Case #2: Search for University Events by Text

### GENERAL CHARACTERISTICS

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|---|---|
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| **Last Update:** | 9/25/16 |
| **Scope** | Backend of HypeU event discovery service |
| **Level** | User level |
| **Status** | Under review |
| **UML Diagram** | See page 1 of 'UML Diagrams.pdf' |
| **Primary Actor** | Client User or Guest |
| **Secondary Actors** | Event Admin User |
| **Stakeholders and Interests** | <ul><li>User/Guest: Want to search for nearby events by typing keywords specific to the event</li><li>Event Admin User: Provides event details for user/guest to search by, and wants users to attend events</li></ul> |
| **Preconditions** | For guests: nothing<br>For client users: already authenticated |
| **Success Post Condition** | Events containing the query text in its fields (such as name, location, etc) are sent to the client |
| **Failed Post Condition** | An error status is sent to the client |

### MAIN SUCCESS SCENARIO (or basic flow)

| Step | Action |
|---|---|
| 1 | User arrives at 'Search' page |
| 2 | User types in certain key phrases about the event (name, location, description) |
| 3 | Backend will send a list of events to the client based on the key phrases provided by the user |

### EXTENSIONS or Alternate Flows

| Step | Branching Action |
|---|---|
| 3a | The backend could not find any results for the search queries |
| | 1. Backend sends message to client that no events were found |
| | 2. Client displays message that search produced no results |

### SPECIAL REQUIREMENTS

**Req** **Requirement**
1    Search by text must be efficient at searching through many events, so users don't have to wait for a long time

### TECHNOLOGY AND DATA VARIATIONS LIST

**Var** **Variation**
1    Text search should cover many event details, such as name or location

**FREQUENCY OF OCCURRENCE**: This will be used quite frequently. We are assuming that users in general would want to search for a specific event quite frequently in order to fully use the app to its potential.

### OTHER ISSUES

**Issue** **Issue**
1    What other details can the user search the location by and would it make a significant difference in the app?
2    How accurate should the text search be? For instance, should it also search for synonyms and plurals?