

Use Case # 4: Query Universities by Location

GENERAL CHARACTERISTICS

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Scope	Backend of HypeU event discovery service
Level	User level
Status	Under review
UML Diagram	See page 2 of 'UML Diagrams.pdf'
Primary Actor	Client User/Guest: Operates automatically on behalf of the user
Secondary Actors	Database
Stakeholders and Interests	<ul style="list-style-type: none">• Guest/Client User: Wants to see events at closest university, or if picking another one, then would want the universities to be sorted by distance• University: Wants to be on the list so people have the option of using this service at that university
Preconditions	Client App has access to user's location, and universities in database have accurate location information
Success Post Condition	Universities near the provided location are sent to the client, sorted by distance
Failed Post Condition	Backend sends error status to client

MAIN SUCCESS SCENARIO (or basic flow)

Step	Action
1	User opens client app, or wants to view events at a different university
2	Client app requests location of user
3	Client app sends user location to backend
4	Backend retrieves and sends universities closest to that location
5	Client app displays list of nearby universities, or selects closest one and requests events

EXTENSIONS or Alternate Flows

Step	Branching Action
2a	User denies location request <ul style="list-style-type: none">1. Client app will attempt to select last university used2. If no university was used last (e.g. opening app for first time), client app requests alphabetical list of universities3. Backend sends list of all universities, sorted alphabetically
3a	Client sends invalid location to backend <ul style="list-style-type: none">1. Backend sends error message that location is invalid

SPECIAL REQUIREMENTS

Req Num	Requirement
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1	List of universities should be retrieved fast, to avoid a long loading screen on the frontend
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TECHNOLOGY AND DATA VARIATIONS LIST

Var Num	Variation
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0	N/A
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FREQUENCY OF OCCURRENCE: This will happen occasionally -- when the user first opens the app and when the user changes university

OTHER ISSUES

Issue Num	Issue
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1	How many universities should be returned, either by amount or by distance?
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