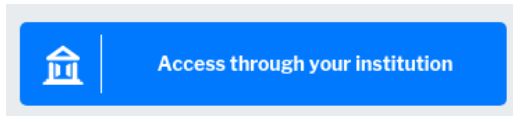


# SeamlessAccess Testing primer

SeamlessAccess provides an elegant and easy-to integrate discovery service for service providers that may want to use such a service, like big publishing houses.

SeamlessAccess standard will be, the standard model, integrated on the web interface of the Service Provider as an iframe, but at the same time allowing some look-and-feel customizations.

Usually, you will see a big blue button like this:



From the testing perspective, there are three important aspects to consider.

- The cross-domain nature of the service. The service needs to be tested as it is embedded at the target SP website, since the embedding itself may cause challenges in the future (like the ever increasing browser security breaks something)
- The look-and-feel customizations. A first investigation reveals that a very consistent id and title strategy is followed in these websites, making this easy. However, customized look-and-feel is out of the scope for now.
- The three integration models: Limited, Standard, Advanced.
  - Limited makes the user jump to a discovery service, where the selector is available. This method does not involve a big blue button.
  - Standard edition includes the big blue button and the rest of the discovery experience
  - Advanced involves using the API and all bets are off.

Currently, we test with standard as our base case, as this includes most aspects of the limited as well.

## User stories (agile format) supported by SeamlessAccess

At a minimum, a user story has four components or statements:

**Title:** <A name for the user story>

**As a:** <A user or persona>

**I want to:** <Take an action>

**So that:** <A benefit is realized>

## Selecting the institution

Title: 1A: Selecting by Typing / few results

As a **user clicking on the big blue button (cold state),**

I want to **find my home organization by starting typing its name**

So that **I can access the service quite easily.**

**Scope: Limited, Standard**

This can be tested by trying text fragments and expecting a list that contains a given organization. The test should be configurable on what input to enter and what to expect.

*Ideas: "Budapest" should be a good word as there are only 3 results: few enough to show a list, not too few so that it is empty. E.g. "Budapest" should yield "Eötvös Loránd University Budapest". Obviously this may break if the metadata is removed, so only should yield a **WARNING**.*

*Other ideas*

*"géant" -> "GÉANT Staff Identity Provider" (fairly certain this is stable)*

**Find Your Institution**  
Your university, organization or company

Examples: Science Institute, Lee@uni.edu, UCLA

 Remember this choice [Learn More](#)

- Budapest Metropolitan University
- Eötvös Loránd University Budapest elte.hu
- Budapest University of Technology and Econo... bme.hu

Title: 1B: Selecting by Typing / too many results

As a **user clicking on the big blue button,**

I want to **see how many entities match the characters I typed**

So that **I know that even though no results are shown yet, something is happening.**

**Find Your Institution**  
Your university, organization or company

Examples: Science Institute, Lee@uni.edu, UCLA

 Remember this choice [Learn More](#)

2330 Matches keep typing to refine your search

[Show me all matches anyway](#)

Scope: Limited, Standard

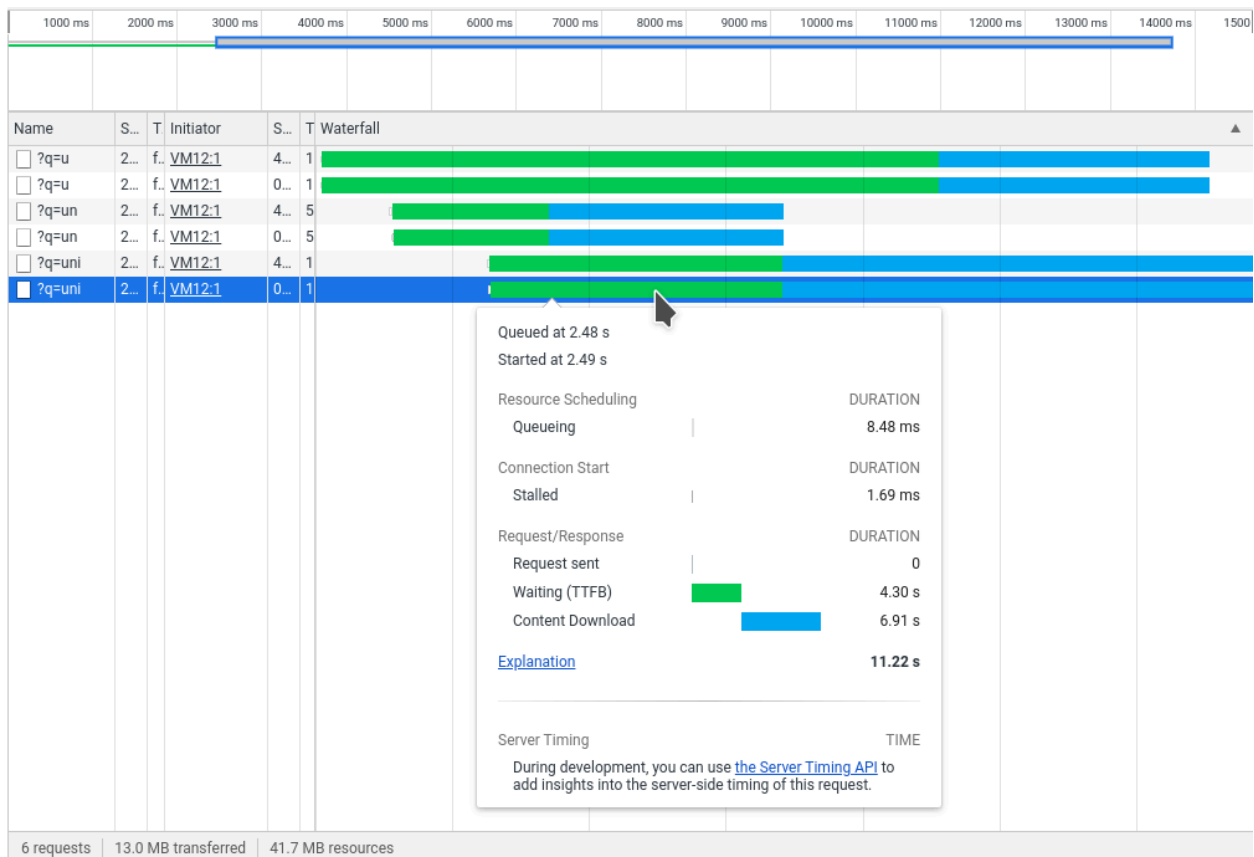
Ideas: use "university" as it should be thousands of results at all times.

Title: **1C: Selecting by Typing / delays**

As a **user clicking on the big blue button**,  
I want to **I don't want to wait more than X seconds**  
So that **the interface feels fast and snappy.**

Scope: Limited, Standard, Advanced

Ideas: use "uni" as it should be thousands of results at all times. X may be 3 or 5. **This test currently fails, see the screen cap below.**



Typing uni costs us 11,22s, of which some may be blamed on a slow 4G network that was used at the writing of this document. However, 4G

connection for browsing is quite common. Moreover, the size of the traffic (41,7 MB in total) should be investigated.

### Title:1D: Selecting by Typing / show me all matches

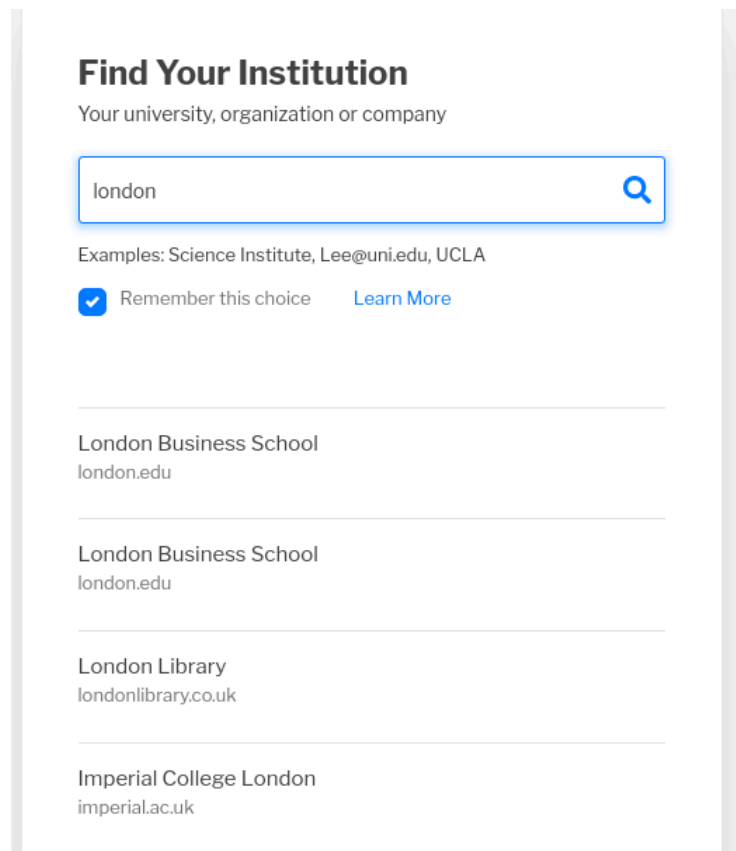
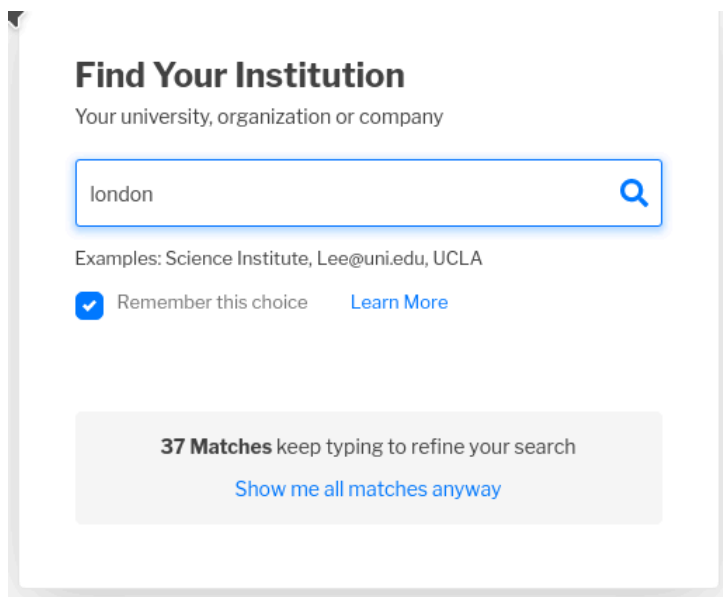
As a **user clicking on the big blue button,**

I want to **after typing a fragment of my institution name I want to browse all matches**

So that **I don't need to remember the correct spelling or type more than necessary on my smartphone.**

**Scope: Limited, Standard**

*Idea: "london" is a great keyword as it yields several dozens of results. The test could be 1) is there a "show me matches anyway" and 2) are there at least 10 results in the list you get?*



**Title: 2A: Remembering the selection / after 1 round trip**

As a **user clicking on the big blue button,**

I want to **after selecting my organization once, I want to be remembered next time**

So that **I don't need to choose more than once.**

Scope: Standard

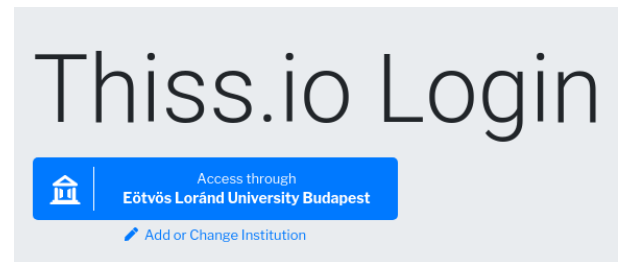
**Find Your Institution**  
Your university, organization or company

elte|

Examples: Science Institute, Lee@uni.edu, UCLA

Remember this choice [Learn More](#)

Eötvös Loránd University Budapest  
elte.hu



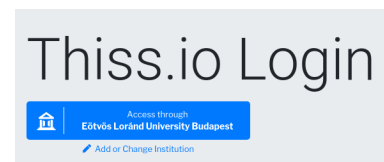
**Title: 2B: Remembering the selection / add or change screen**

As a **user clicking on the big blue button,**

I want to **after selecting my organization once, I remove my choice**

So that **I can change my mind or fix an error.**

Scope: Standard



**Choose Your Institution**  
Recent institutions

Eötvös Loránd University Budapest  
elte.hu

[Add another institution](#) [Edit](#)

**Edit institutions**  
If you don't want an institution to be remembered on this computer, remove it from the list below.

Eötvös Loránd University Budapest  
elte.hu

Done

**Find Your Institution**  
Your university, organization or company

Examples: Science Institute, Lee@uni.edu, UCLA

Remember this choice [Learn More](#)

*Idea: make a round-trip, choose and select an institution, then load again, see if the institution is remembered, click on the "add or change institution" button below the big blue button, click edit and remove the institution.*

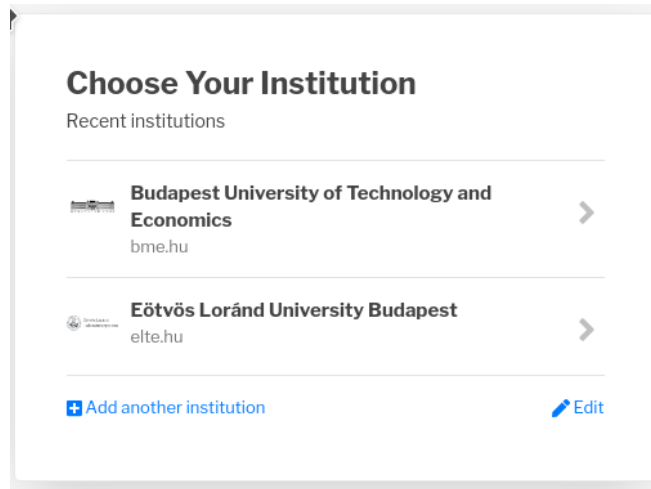
Title: 2C: Remembering the selection / additional org

As a **user clicking on the big blue button,**

I want to **after selecting my organization once, I want to add another to my list**

So that **I can switch between my organizations later.**

Scope:Limited?, Standard



*Idea: use previous flows A and partially B to get to the editor screen. Here, instead of removing the organization, add a new one.*

*Idea: use some institutions that are stable. Make it configurable. Should yield a warning only.*

Title: 2D: Remembering the selection / DON'T REMEMBER

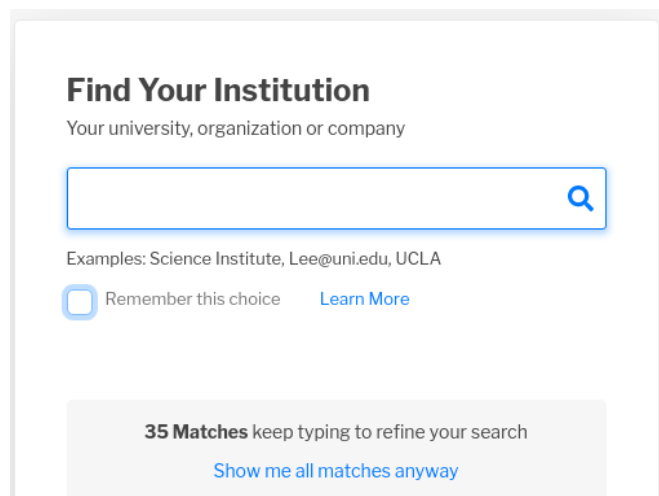
As a **user clicking on the big blue button,**

I want to **when selecting my organization once, I want to opt out from being remembered**

So that **My privacy is preserved or I don't expect to use this org anymore.**

Scope:Limited, Standard

*Idea: just untick the checkbox, select something and check whether next time you get the blank blue button and not something else.*



Title: 3A: Learn more

As a **whenever using the application,**  
I want to **be able to learn more**  
So that **I know how this service works**  
**and what it does.**


**Scope: Limited, Standard**

*Idea: check if the "learn more" link rolls down the explanation.*

*Idea2: "learn more" should be present at the big blue button and on the editor page as well (currently it is only there when you use the type box)*

### Find Your Institution

Your university, organization or company



Examples: Science Institute, Lee@uni.edu, UCLA

Remember this choice [Learn More](#)

The institution you select will be saved in the browser local storage of this device and will be made available to this and other sites that use [SeamlessAccess](#). You may clear your browser local storage at any time. ✕

No login, email or personal information is stored.

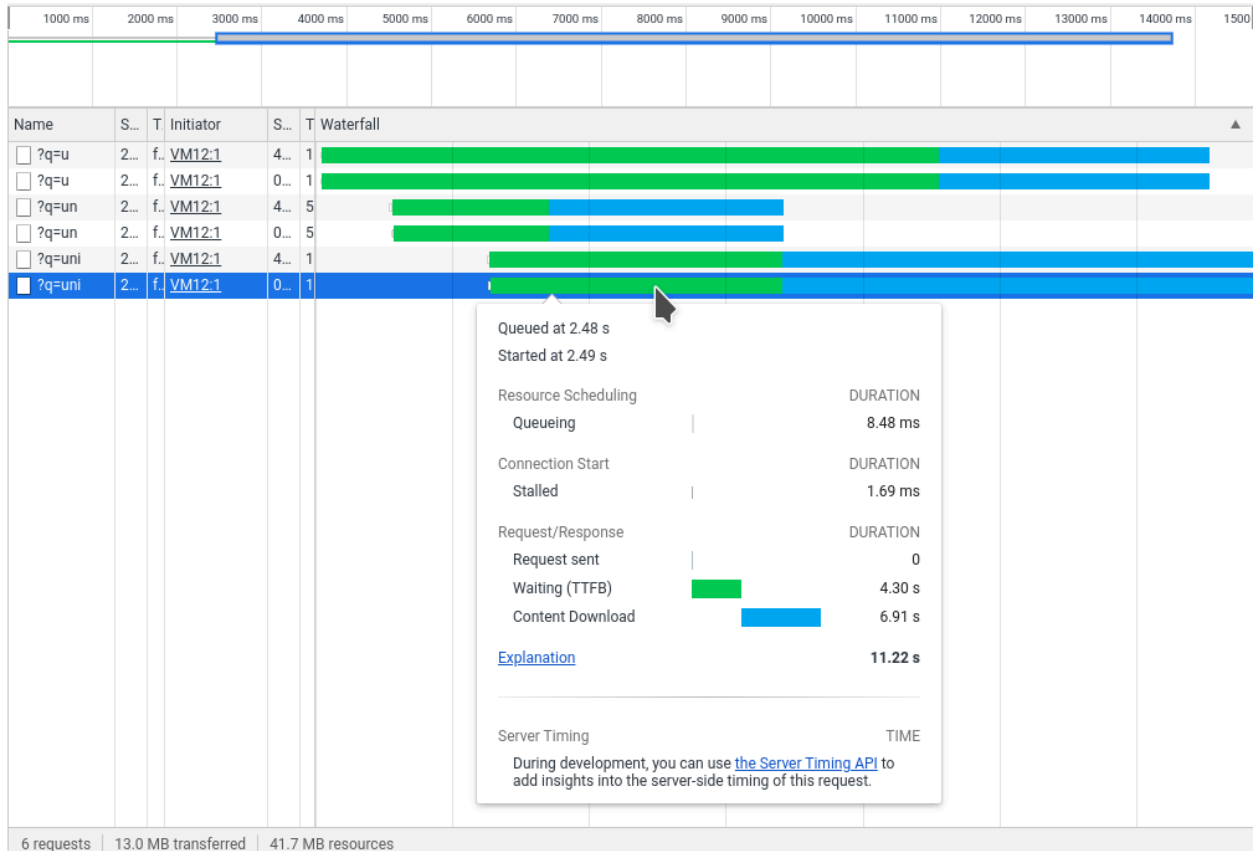
[Additional Privacy Information](#)

## Non-functional / non-user-story tests

T1: The transfer size should be under X for simple queries.

Typing uni currently costs us 41,7 MB in total, while not showing any results, just that there are over 2k orgs with this name. IMHO this should be at least decimated (4MB) but quite possibly hundred-times reduced (that would give 400KB).

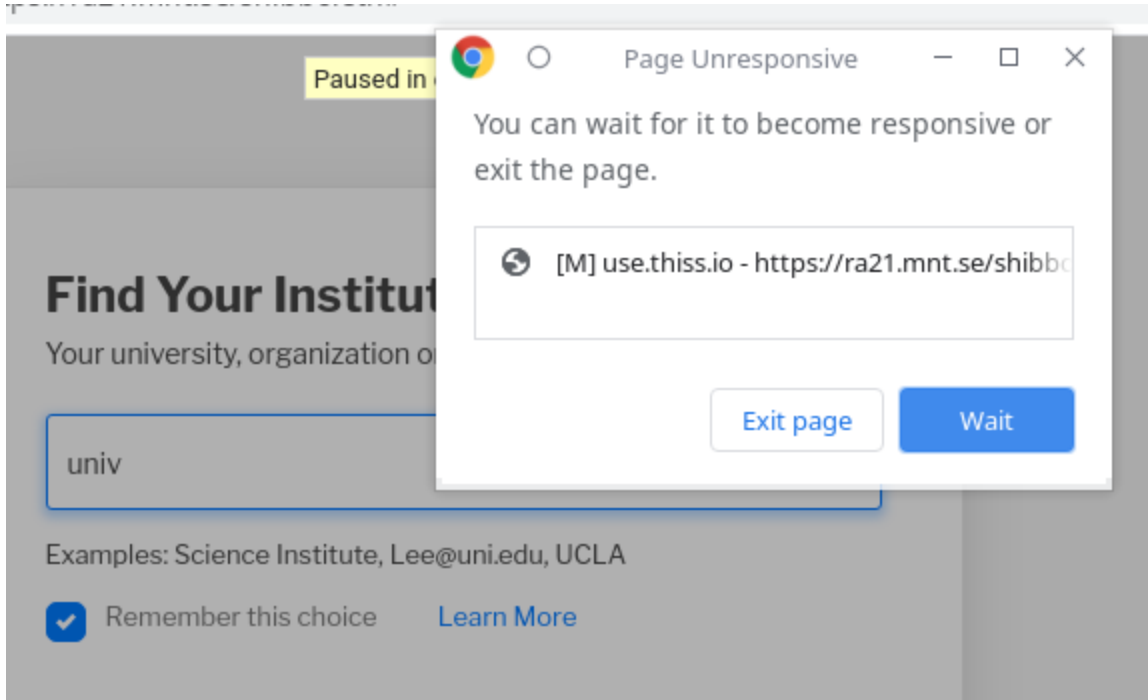
Scope: Limited, Standard, Advanced



T2: Show me all matches anyway should not yield errors

Scope: Limited, Standard

Currently, when clicking on "show me all matches anyway" will break the browser on a Thinkpad T460 (Chrome 88.0.x, 16G RAM, 6th gen Core i7 cpus) and become unresponsive on a Smartphone (Galaxy S7, Firefox)



## Aw, Snap!

Something went wrong while displaying this webpage.

Error code: 64000

[Learn more](#)

[Reload](#)

## Analysis of services that use seamlessaccess.org

TODO integrations of 9 users