

This is an annotated mark-up of a proof-of-concept web application, created as a final project for my Databases class. The application was built using the Bottle framework in Python and is powered by a PostgreSQL database.

The application tracks mental health facilities in Chicago using a combination of real and created data.

The project was locally hosted for the purposes of the class and therefore I cannot share a link to the application itself. This mark-up is an annotated version designed to demonstrate the main functionality of the project.

[Begin annotated walkthrough](#)



Homepage

[Home](#)[New Facility](#)

Mental Health Facilities in Chicago

In 2012 the Chicago Mayor's Office made a controversial decision to close half of the mental health care facilities in the City of Chicago, prompting protests and a call to action to rectify the dearth of accessible and affordable mental health care. Part of the rationale for closing down half of the CDPH (Chicago Department of Public Health) centers was that with the expansion of the Affordable Care Act, patients should be able to substitute to FQHCs (Federally Qualified Health Centers) and private facilities. However, it is notoriously difficult to find a list of valid, active centers that are accepting clients and understand their waitlists and payment structures. This application is a proof-of-concept app designed to consolidate some of that information. The data on CDPHs and FQHCs is real and linked below. The data on private facilities, services, waiting times, and funding information is made up for illustrative purposes.

This web application is designed for Chicago residents to be able to search for mental health facilities based on their health needs and zipcode. It's also designed to allow residents to add and remove information to keep an updated list of mental health facilities. For the form below, you can search for facilities by their name, by which service they offer, by how far they are from you, or all of the criteria together.

Five Digit Zipcode:

Within: miles

Service Needed:

Facility Name:

Sources of Data:

- [CDPH Facilities](#)
- [FQHCs](#)
- [Real Chicago Addresses for Fake Private Facilities](#)
- [Report Assessing Chicago's Mental Health Landscape](#)

[Sample Search](#)

[Add New Facility](#)

Error Handling:

- [Form Validation](#)
- [Catch Exception 1](#)
- [Catch Exception 2](#)

Sample search

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Mental Health Facilities in Chicago

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Five Digit Zipcode:

Within: miles

Service Needed:

Facility Name:

[Click Submit](#)

Sources of Data:

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- [FQHCs](#)
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[Homepage](#)

Search Results

Home New Facility					
Facilities					
These are the facilities that match your search, with a maximum of 50 being displayed. For each facility, you can view and edit details of the facility itself, remove the facility, look at the waiting time for the service you requested, look at information about this facility's funding sources, and add funder information.					
Facility Name					
ENGLEWOOD MHC	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder
GREATER GRAND/MID-SOUTH MHC	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder
GRIFFIN, POWELL AND WRIGHT	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder
JEFFERSON INC	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder

[View/Edit](#)

[Delete](#)

[Waiting Information](#)

[Funding Information](#)

[Add Funder](#)

[Homepage](#)

View / Edit Page

[Home](#)[New Facility](#)

Facility View/Edit

Please only edit information about facilities if you know it to be accurate. This helps keep the information updated and accurate for everyone else!

Facility Name:

Englewood MHC

Address:

641 W. 63rd St Chicago,

Phone Number:

312-747-7496

Zipcode

60621

Type of Facility:

CDPH - Chicago Department of Public Health

Update Information

[Click to change number](#)

[Back to Search Results](#)

[Homepage](#)

View / Edit Page – Updated Number

[Home](#) [New Facility](#)

Facility View/Edit

Please only edit information about facilities if you know it to be accurate. This helps keep the information updated and accurate for everyone else!

Facility Name:

Address:

Phone Number:

Zipcode

Type of Facility:

[Click Update Information](#)

[Back to Search Results](#)

[Homepage](#)

Update Confirmation Page

Home

New Facility

Thanks for updating!

Go Back

Back to Search Page

Go Back

Check that the
number updated

Back to Search Results

Homepage

Check that record updated

[Home](#)[New Facility](#)

Facilities

These are the facilities that match your search, with a maximum of 50 being displayed. For each facility, you can view and edit details of the facility itself, remove the facility, look at the waiting time for the service you requested, look at information about this facility's funding sources, and add funder information.

Facility Name					
ENGLEWOOD MHC	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder
GREATER GRAND/MID-SOUTH MHC	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder
GRIFFIN, POWELL AND WRIGHT	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder
JEFFERSON INC	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder

[View/Edit](#)

View / Edit Page – Updated Number

[Home](#)[New Facility](#)

Facility View/Edit

Please only edit information about facilities if you know it to be accurate. This helps keep the information updated and accurate for everyone else!

Facility Name:

Englewood MHC

Address:

641 W. 63rd St Chicago,

Phone Number:

123-456-7890

Zipcode

60621

Type of Facility:

CDPH - Chicago Department of Public Health

Update Information

Updated Number

[Back to Search Results](#)

[Homepage](#)

Delete Page*

[Home](#) [New Facility](#)

Are you sure you want to delete this facility?


Please be sure to only delete a facility if you know it has permanently closed.

Facility Name:
Jefferson Inc

Address:
6950 SOUTH DOCTOR MARTIN LUTHER KING JR DRIVE, Chicago, IL 60637

Phone Number:
343-856-1524x7828

Type of Facility:
Private



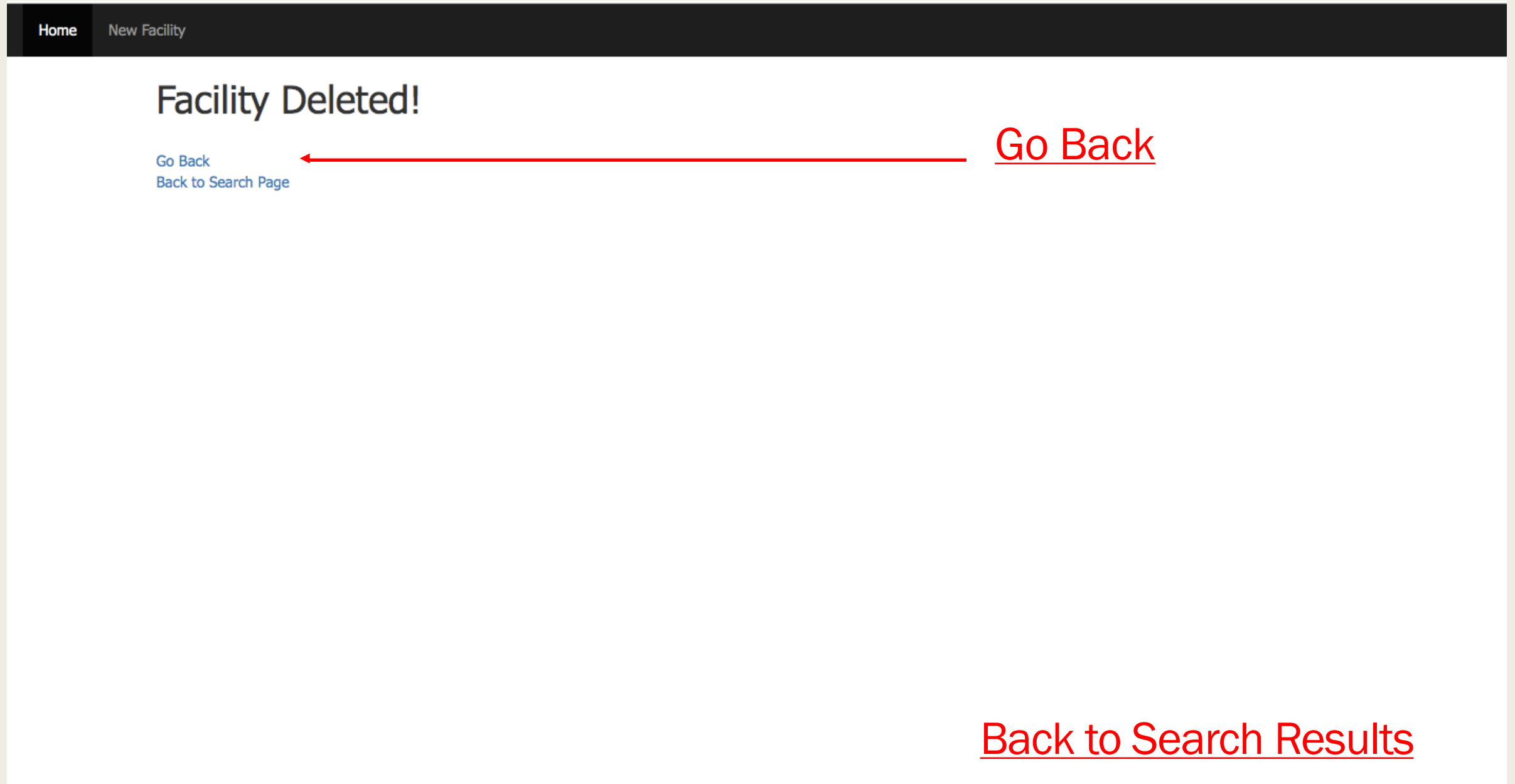
[Click Delete Facility](#)

[Back to Search Results](#)

[Homepage](#)

*Note, the Delete function is included to demonstrate functionality and ability to perform various updates to the database. In an actual, consumer-facing application, it is unlikely to be included

Facility Deleted Page



[Homepage](#)

Waiting Time Information

Home New Facility		
Waiting Time For Englewood MHC		
Service Name	Waiting Time	Unit
Comprehensive Mental Health Assessments	9	Weeks

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[Homepage](#)

Funding Information

[Home](#)[New Facility](#)

Showing Funder Information For: Greater Grand/MID-South MHC

[Back to Search Results](#)

Funder Name	Funder Description	Year	Amount (\$)
Amanda Hartman	Best boy	2017	0.00
Amanda Hartman	Best boy	2018	30000.00
Amy Nelson	Secondary school teacher	2017	10000.00
Amy Nelson	Secondary school teacher	2018	40000.00
Angela Gilbert	Journalist, broadcasting	2017	0.00
Angela Gilbert	Journalist, broadcasting	2018	50000.00
Ann Morrow	Research scientist (maths)	2017	100000.00
Ann Morrow	Research scientist (maths)	2018	80000.00
Ashley Myers	Radiation protection practitioner	2017	180000.00
Ashley Myers	Radiation protection practitioner	2018	140000.00
Benjamin Shaw	Engineer, mining	2017	90000.00
Benjamin Shaw	Engineer, mining	2018	10000.00
Casey Roberson	Youth worker	2017	180000.00

[Homepage](#)

Adding funder information

[Home](#) [New Facility](#)

Add funding information

Select year

Select list

Amount:

Note, the amount should not exceed \$999,999.99

[Click Submit](#)

[Back to Search Results](#)

[Homepage](#)

Updated funding information

[Home](#)[New Facility](#)

Showing Funder Information For:

Greater Grand/MID-South MHC

[Back to Search Results](#)

Funder Name	Funder Description	Year	Amount (\$)
Amanda Hartman	Best boy	2017	0.00
Amanda Hartman	Best boy	2018	30000.00
Amy Nelson	Secondary school teacher	2017	5.00
Amy Nelson	Secondary school teacher	2017	10000.00
Amy Nelson	Secondary school teacher	2018	40000.00
Angela Gilbert	Journalist, broadcasting	2017	0.00
Angela Gilbert	Journalist, broadcasting	2018	50000.00
Ann Morrow	Research scientist (maths)	2017	100000.00
Ann Morrow	Research scientist (maths)	2018	80000.00
Ashley Myers	Radiation protection practitioner	2017	180000.00
Ashley Myers	Radiation protection practitioner	2018	140000.00
Benjamin Shaw	Engineer, mining	2017	90000.00
Benjamin Shaw	Engineer, mining	2018	10000.00
Cecily Dehnen	Youth worker	2017	18000.00

[Homepage](#)

Add New Facility

[Home](#) [New Facility](#)

Add New Facility

Facility ID: (The ID must have 8 characters)

Facility Name:

Facility Address:

Facility Zipcode:

Type of Facility:

Service Needed (please choose at least one and up to 3 services):

Service 1:

Service 2:

Service 3:

Facility Phone:

[Click Submit](#)

[Homepage](#)

Re-do Sample Search

[Home](#)[New Facility](#)

Mental Health Facilities in Chicago

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[Re-do Sample Search](#)

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Updated search results

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GREATER GRAND/MID-SOUTH MHC	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder
GRIFFIN, POWELL AND WRIGHT	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder
JEFFERSON INC	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder
TEST FACILITY	View / Edit	Delete	Waiting Time Information	Funding Information	Add Funder

Error Handling: Form Validation

Home New Facility

Add New Facility

Facility ID: (The ID must have 8 characters)

Facility  Please fill out this field.

Facility Address:

Facility Zipcode

Type of Facility:

Service Needed (please choose at least one and up to 3 services):

Service 1:

Service 2:

Service 3:

Facility Phone:


Home New Facility

Add funding information

Select year

Select list

Amount:


 Value must be less than or equal to 999999.99.

Home New Facility

Add New Facility

Facility ID: (The ID must have 8 characters)

Facility Name:

Facility Address  Please fill out this field.

Facility Zipcode

Type of Facility:

Service Needed (please choose at least one and up to 3 services):

Service 1:

Service 2:

Service 3:

Facility Phone:

Homepage

Error Handling: Catching Exceptions 1

[Home](#) [New Facility](#)

Mental Health Facilities in Chicago

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Five Digit Zipcode:

Within: miles

Service Needed:

Facility Name:

[Sources of Data:](#)

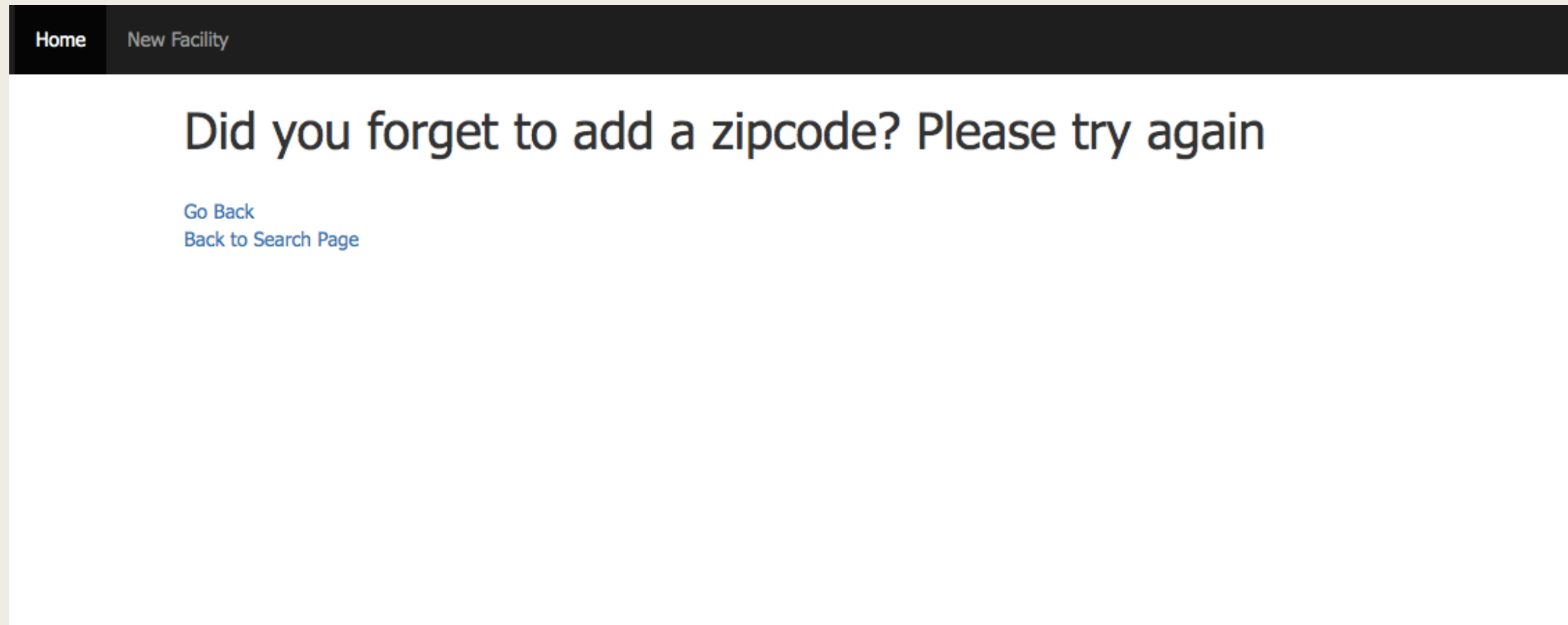
- [CDPH Facilities](#)
- [FQHCs](#)
- [Real Chicago Addresses for Fake Private Facilities](#)
- [Report Assessing Chicago's Mental Health Landscape](#)

Missing Zipcode

Click Submit

Homepage

Error Handling: Catching Exceptions 1



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Error Handling: Catching Exceptions 2

[Home](#) [New Facility](#)

Add funding information

Select year

Select list

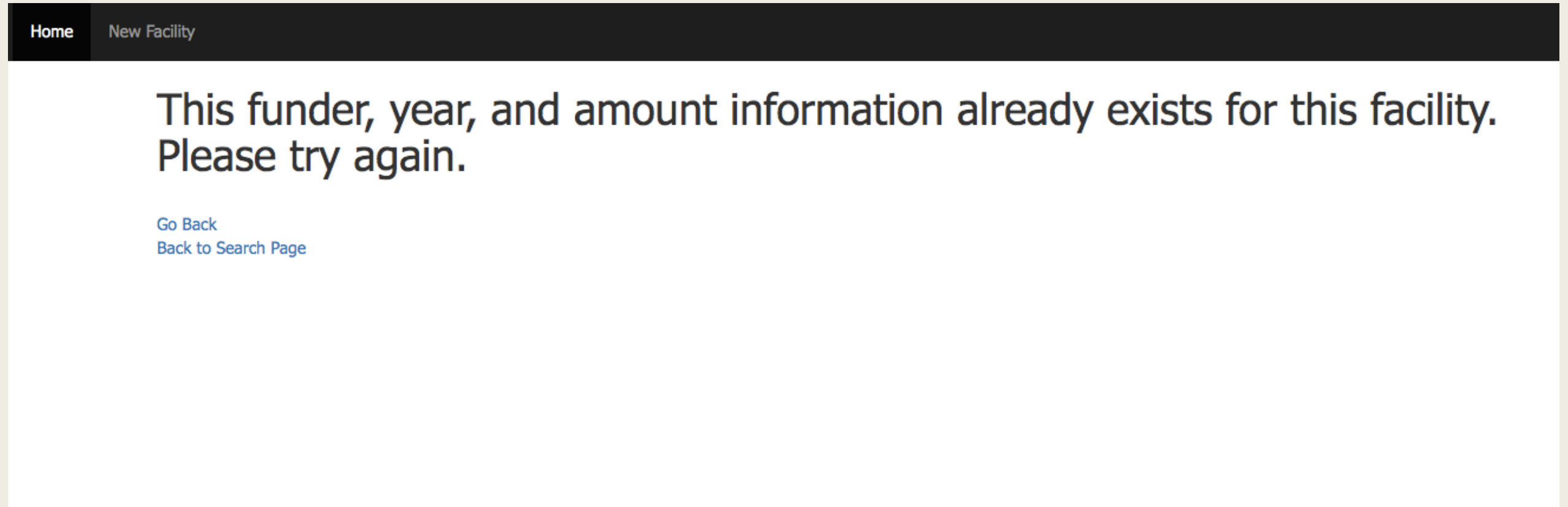
Amount:

Note, the amount should not exceed \$999,999.99

← Add duplicated information

[Homepage](#)

Error Handling: Catching Exceptions 2



[Homepage](#)