Burp Suite Community Edition

Manual report

IT Support Chatbot project: Burp Suite vulnerability assessment report

Sites: https://sec.cse.csusb.edu/team2/

https://sec.cse.csusb.edu/team2/jupyter

Manual report by: Vedakshari Kanneti

Objective:

- To detect and examine potential vulnerabilities in the chatbot system using Burp Suite Community Edition

Methodology:

Approach:

- Capture and analyze HTTP requests and responses
- Test for common vulnerabilities such as SQL injection and security misconfigurations

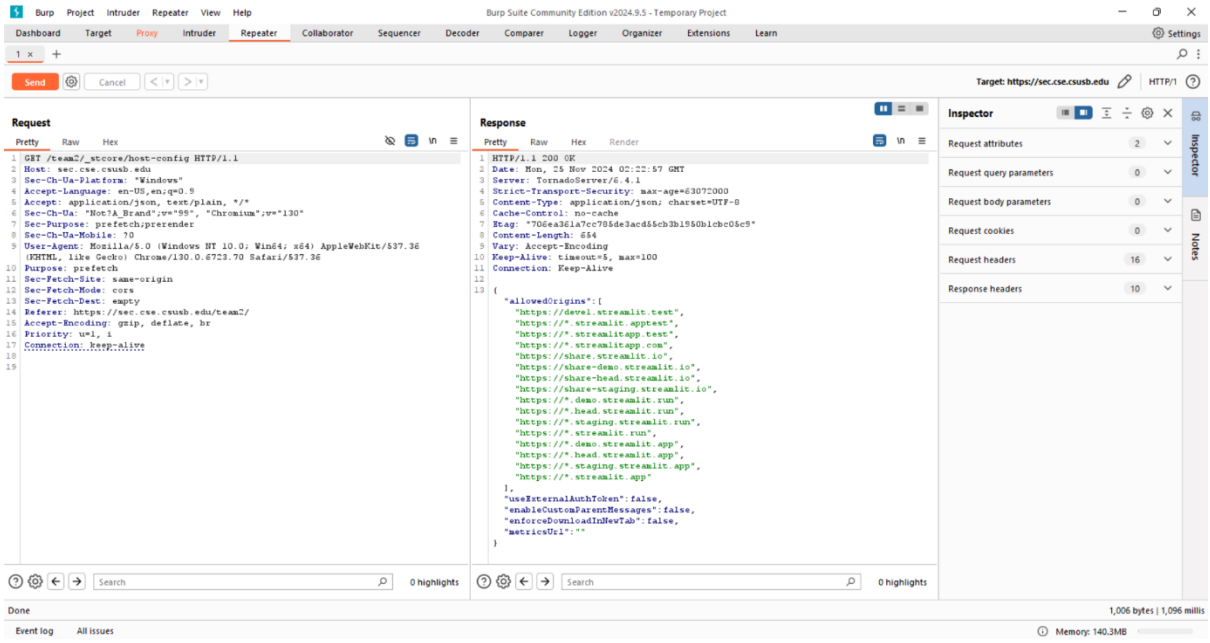
Findings

Overview Table:

Vulnerability	Severity	Description	Recommendation
Cross-Origin WebSocket Hijacking (CSWSH)	Low	Server blocks unauthorized WebSocket connections	Maintain configuration. Test for bypass.
Improper Origin Validation	Medium	Server relies on expected origins	Enhance origin verification with tokens
Security Misconfiguration	Low	Default WebSocket settings permit insecurity	Audit and update WebSocket settings

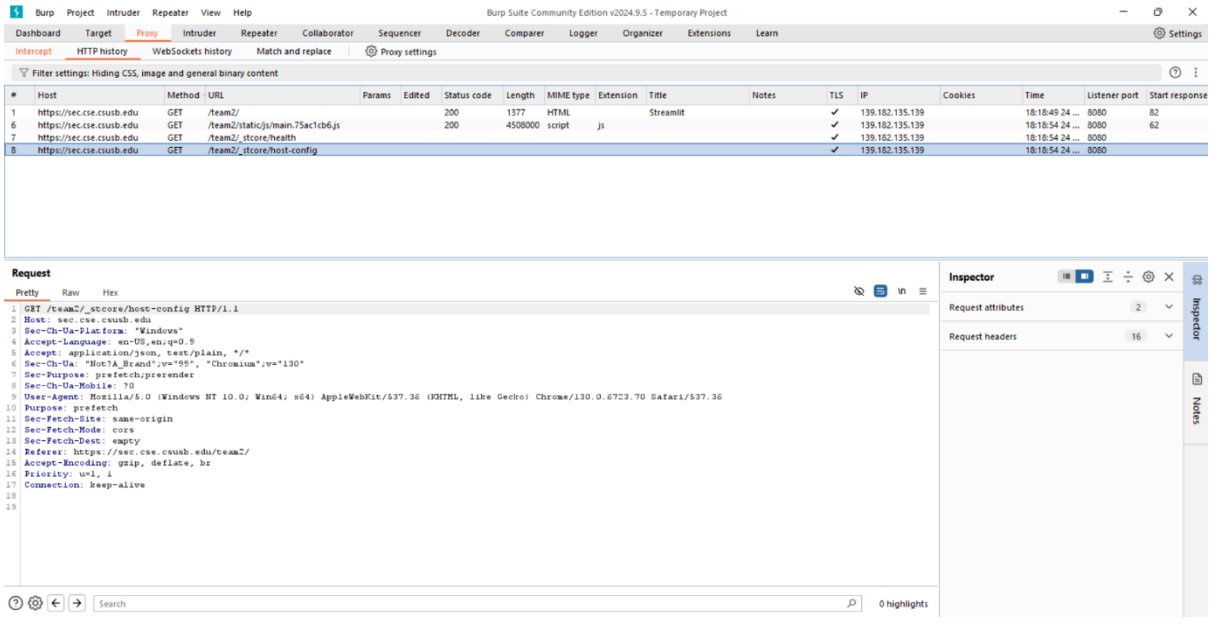
Burp Suite Screenshots for https://sec.cse.csusb.edu/team2/

- Request and response in repeater after modifications

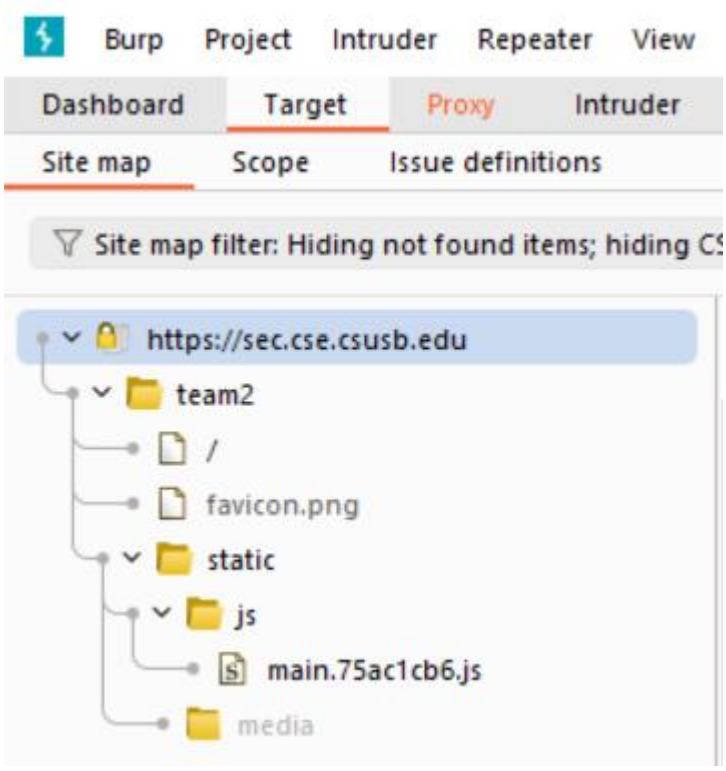


HTTP Requests

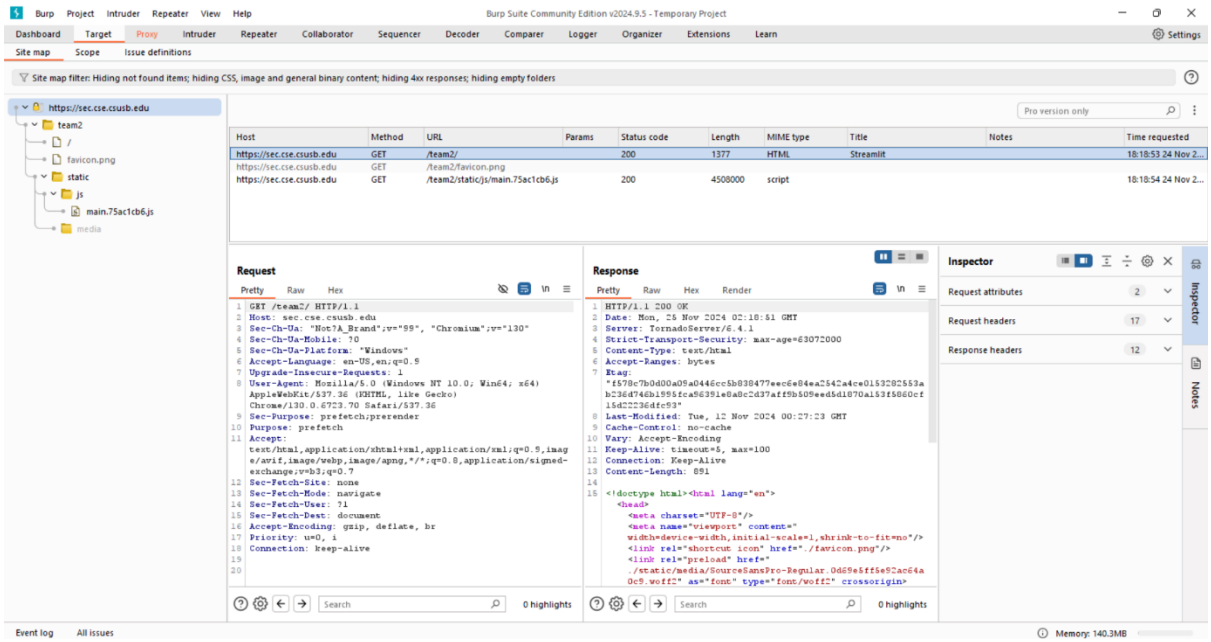
- List of HTTP requests captured while intercepting Academic Advisor Chatbot



Sitemap analysis:



Sitemap Screenshot:

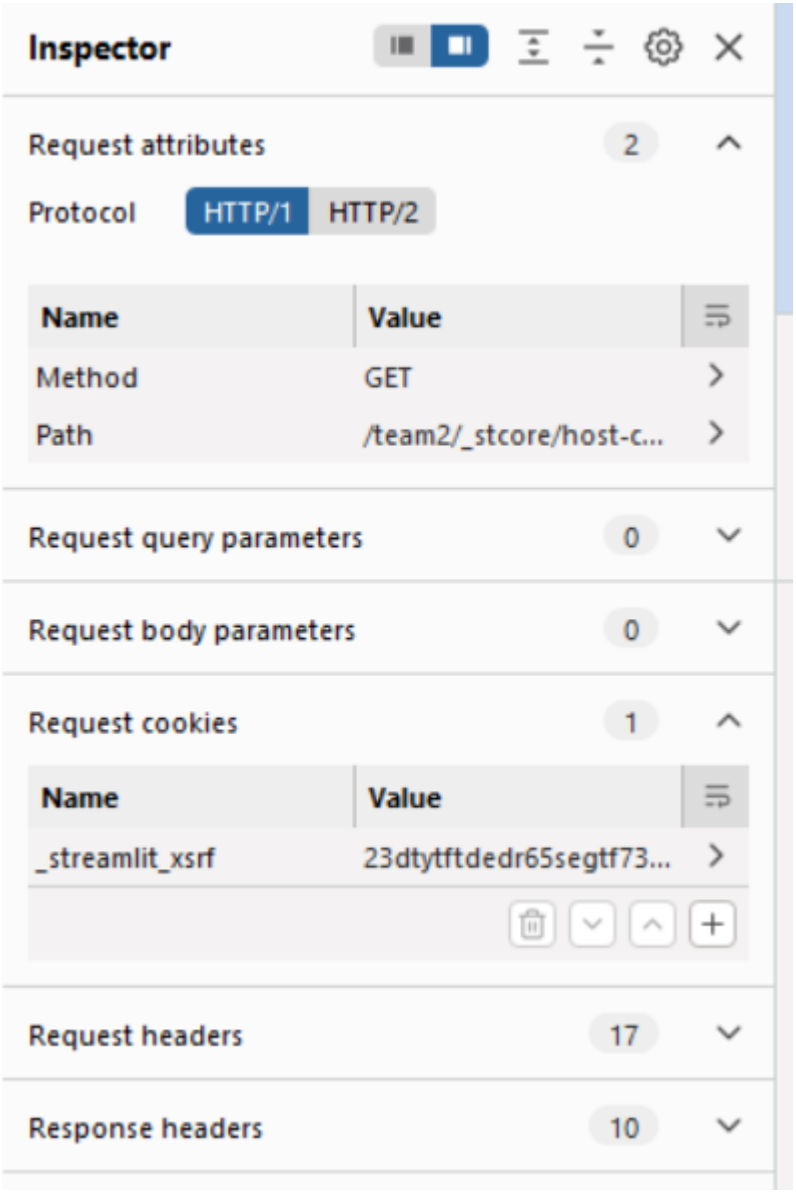


Dash board inspector:

• **Request Headers:** "Connection: keep-alive" header keeps the connection open for multiple requests, improving network performance by reusing the same connection

• **Response Headers**: “vary: Accept -Encoding” the response may change based on the client's Accept-Encoding, typically to handle compressed formats like gzip or deflate

Screenshots for Inspector:



Request headers 16

Name	Value
Host	sec.cse.csusb.edu
Sec-Ch-Ua	"Not?A_Brand";v="99"...
Sec-Ch-Ua-Mobile	?0
Sec-Ch-Ua-Platform	"Windows"
Accept-Language	en-US,en;q=0.9
Upgrade-Insecure-Re...	1
User-Agent	Mozilla/5.0 (Windows...
Accept	text/html,application/...
Sec-Fetch-Site	none
Sec-Fetch-Mode	navigate
Sec-Fetch-User	?1
Sec-Fetch-Dest	document
Accept-Encoding	gzip, deflate, br
Priority	u=0, i
Connection	keep-alive
Cookie	-streamlit-xsrf=21ffgr...

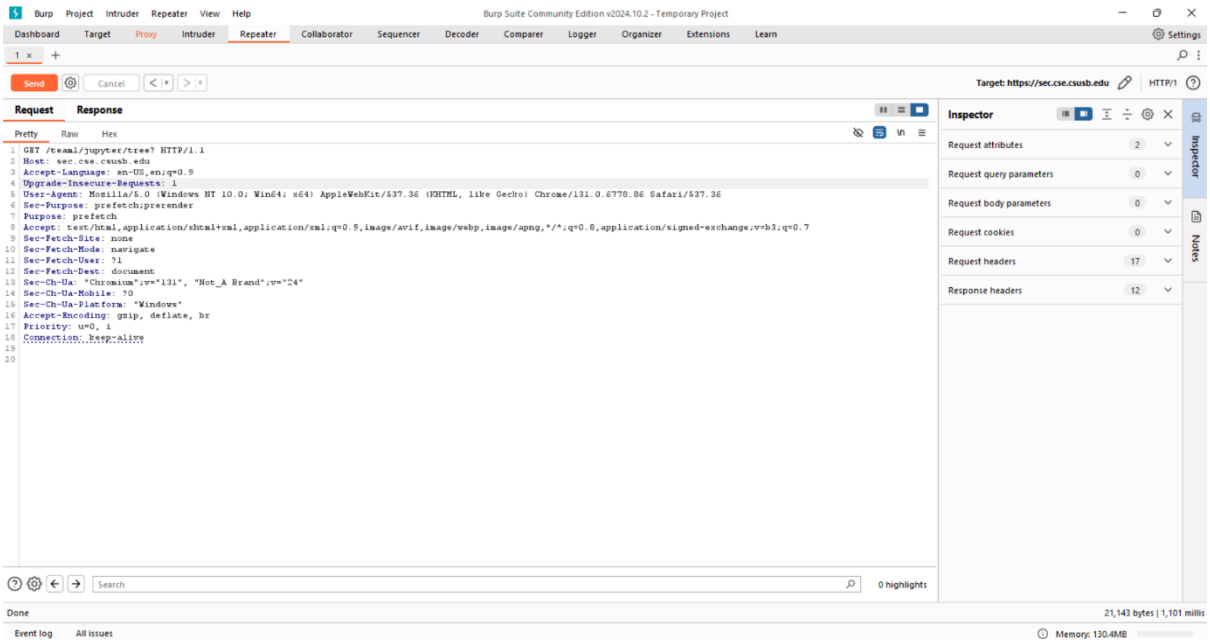
Response headers 12

Name	Value
Date	Mon, 25 Nov 2024 06:0...
Server	TornadoServer/6.4.1
Strict-Transport-Security	max-age=63072000
Content-Type	text/html
Accept-Ranges	bytes
Etag	"f578c7b0d00a09a044...
Last-Modified	Tue, 12 Nov 2024 00:2...
Cache-Control	no-cache
Vary	Accept-Encoding
Keep-Alive	timeout=5, max=100
Connection	Keep-Alive
Content-Length	891

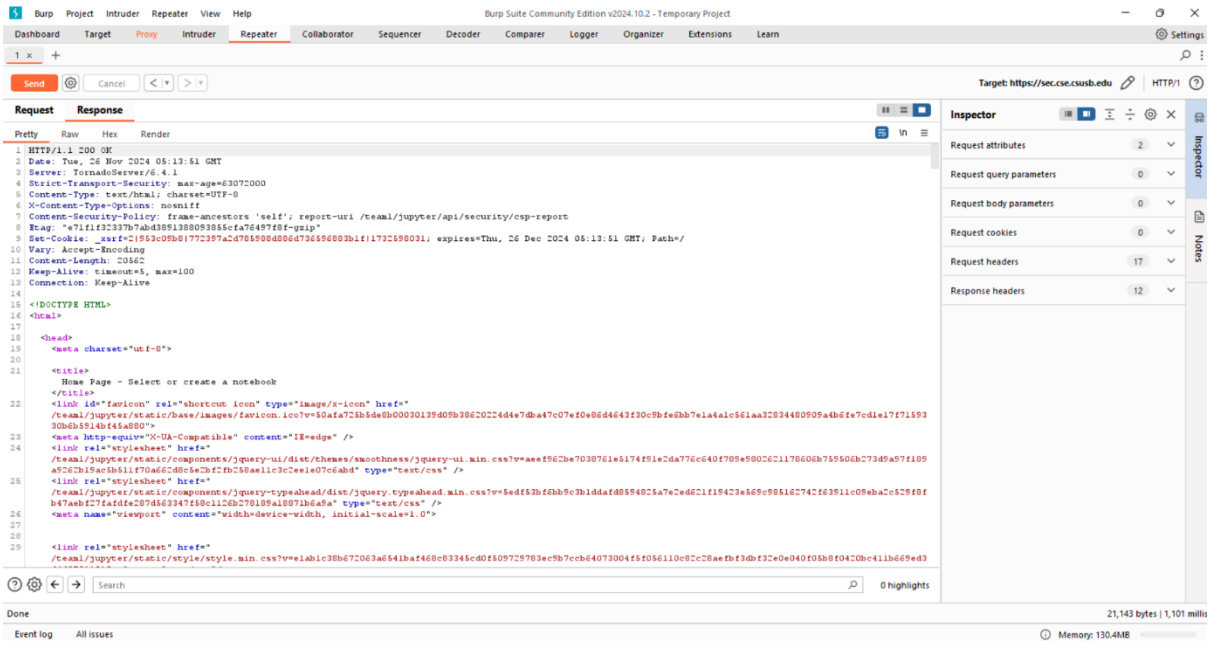
Burp Suite Screenshots for https://sec.cse.csusb.edu/team2/jupyter

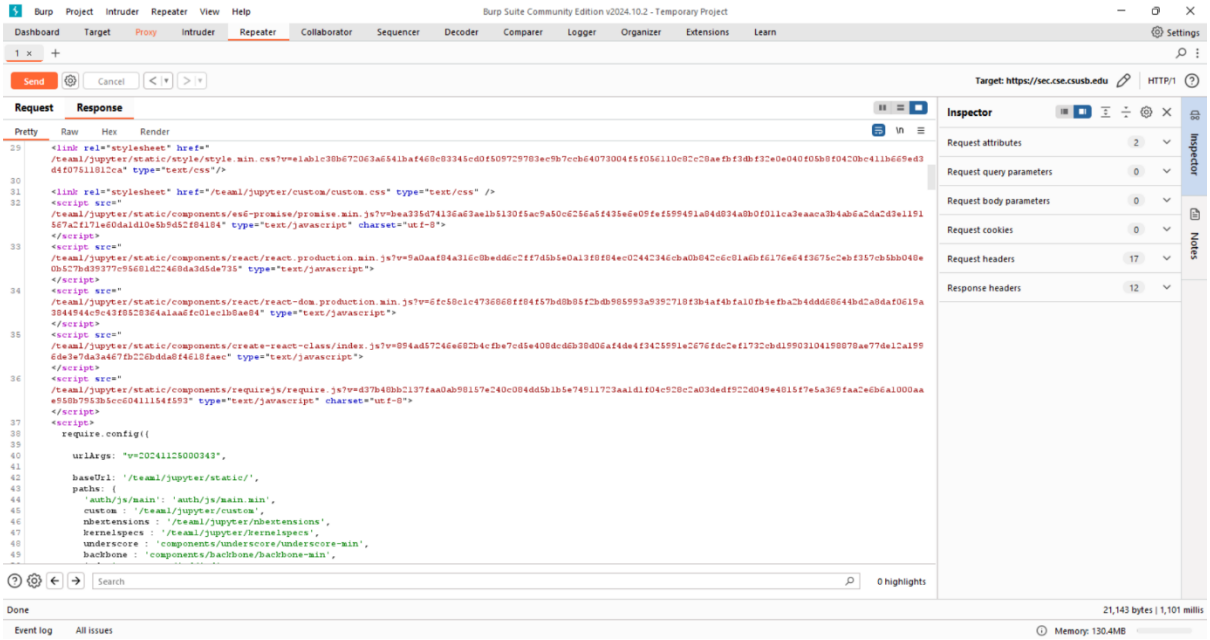
- Request and response in repeater after modifications

Requests:



Responses:


Burp Project Intruder Repeater View Help
Burp Suite Community Edition v2024.10.2 - Temporary Project
Dashboard Target Proxy Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn
Settings
Send Cancel
Target: https://sec.cse.csusb.edu
HTTP/1
Request Response
Pretty Raw Hex Render
HTTP/1.1 200 OK
Date: Tue, 26 Nov 2024 05:13:51 GMT
Server: TornadoServer/6.4.1
Strict-Transport-Security: max-age=63072000
Content-Type: text/html; charset=UTF-8
X-Content-Type-Options: nosniff
Content-Security-Policy: frame-ancestors 'self'; report-uri /teaml/jupyter/api/security/csp-report
Etag: "e71f1f32337b7abd3851388093855cfa76497f8f-gzip"
Set-Cookie: _xsrf=2|553c05b8|772397a2d7855988d866d736596883b1f|1732598031; expires=Thu, 26 Dec 2024 05:13:51 GMT; Path=/
Vary: Accept-Encoding
Content-Length: 20562
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
<!DOCTYPE HTML>
<html>
<head>
<meta charset="utf-8">
<title>
Home Page - Select or create a notebook
</title>
<link id="favicon" rel="shortcut icon" type="image/x-icon" href="
/teaml/jupyter/static/base/images/favicon.ico?v=50afa725b5de0b00030139d05b3862024d4e7dba47c07ef0e86d4643f30c9bfe6bb7e1a4a1c561aa32834480909a4b6fe7cd1e17f71593
30b6b5514bf45a880">
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<link rel="stylesheet" href="
/teaml/jupyter/static/components/jquery-ui/dist/themes/smoothness/jquery-ui.min.css?v=aeef962be7038761e5174f91e2da776c640f705e980262117860b7595068b273d9a97f109
a9262b19ac5b511f70a662d8c5e2bffbf258ae11c3c2ee1e07c6abd" type="text/css" />
<link rel="stylesheet" href="
/teaml/jupyter/static/components/jquery-typeahead/dist/jquery.typeahead.min.css?v=5edf53bf5bb9c3b1ddafd8594825a7e2ed621f19423e569c9851d6742f63911c09eba2c525f8f
b47aebf27fafdfe2074563347f58c11268b278185a1897ibfa5a" type="text/css" />
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="
/teaml/jupyter/static/style/style.min.css?v=e1ab1c38b672063a6541baf468c83345cd0f509729783ec9b7ccb64073004f5f056110c82c28aefbf3dbf32e0e040f05b8f0420bc411b669ed3
Search
0 highlights
Done
21,143 bytes | 1,101 millis
Event log All issues
Memory: 130.4MB
Inspector
Request attributes 2
Request query parameters 0
Request body parameters 0
Request cookies 0
Request headers 17
Response headers 12
Inspector
Notes


Burp Project Intruder Repeater View Help
Burp Suite Community Edition v2024.10.2 - Temporary Project
Dashboard Target Proxy Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn
Settings
Send Cancel
Target: https://sec.cse.csusb.edu
HTTP/1
Request Response
Pretty Raw Hex Render
<link rel="stylesheet" href="
/teaml/jupyter/static/style/style.min.css?v=e1ab1c38b672063a6541baf468c83345cd0f509729783ec9b7ccb64073004f5f056110c82c28aefbf3dbf32e0e040f05b8f0420bc411b669ed3
d4f07511812ca" type="text/css"/>
<link rel="stylesheet" href="/teaml/jupyter/custom/custom.css" type="text/css" />
<script src="
/teaml/jupyter/static/components/es6-promise/promise.min.js?v=bea335d74136a63ae1b5130f5ac9a50c6256a5f435e6e09fef599491a84d834a8b0f011ca3eaaca3b4ab6a2da2d3e1191
567a2f171e60da1d10e5b5d52f84184" type="text/javascript" charset="utf-8">
</script>
<script src="
/teaml/jupyter/static/components/react/react.production.min.js?v=5a0aaf84a316c0bedd6c2ff7d5b5e0a13f8f84ec0244246cba0b042c6c81a6bf6176e64f3675c2ebf357cb5bb040e
0b527bd3977c5661d2246da3d5de735" type="text/javascript">
</script>
<script src="
/teaml/jupyter/static/components/react/react-dom.production.min.js?v=5fc58c1c4736868ff84f57bd8b85f2bdb985993a9392718f3b4af4bfa10fb4efba2b4ddd68644bd2a8daf0619a
3844544c5c43f8528364a1aa6fc01ec1b8ae84" type="text/javascript">
</script>
<script src="
/teaml/jupyter/static/components/create-react-class/index.js?v=894ad57246e682b4cfbe7cd5e408dcd6b38d06af4de4f3425591e2676fdc2ef1732cbd1990310419807 8ae77de12a199
6de3e7da3a467fb226bdda8f4618faec" type="text/javascript">
</script>
<script src="
/teaml/jupyter/static/components/requirejs/require.js?v=d37b40bb2137faa0ab98157e240c084dd5b1b5e74911723aa1d1f04c920c2a03dedf922d049e4815f7e5a365faa2e6b6a1000aa
e950b7953b5cc604111541593" type="text/javascript" charset="utf-8">
</script>
<script>
require.config({
urlArgs: "v=20241125000343",
baseUrl: '/teaml/jupyter/static/',
paths: {
'auth/js/main': 'auth/js/main.min',
custom : '/teaml/jupyter/custom',
nbextensions : '/teaml/jupyter/nbextensions',
kernelspecs : '/teaml/jupyter/kernelspecs',
underscore : 'components/underscore/underscore-min',
backbone : 'components/backbone/backbone-min',
Search
0 highlights
Done
21,143 bytes | 1,101 millis
Event log All issues
Memory: 130.4MB
Inspector
Request attributes 2
Request query parameters 0
Request body parameters 0
Request cookies 0
Request headers 17
Response headers 12
Inspector
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jed: 'components/jed/jed',
jquery: 'components/jquery/jquery.min',
json: 'components/requirejs-plugins/src/json',
text: 'components/requirejs-text/text',
bootstrap: 'components/bootstrap/dist/js/bootstrap.min',
bootstraptour: 'components/bootstrap-tour/build/js/bootstrap-tour.min',
'jquery-ui': 'components/jquery-ui/dist/jquery-ui.min',
moment: 'components/moment/min/moment-with-locales',
codemirror: 'components/codemirror',
termjs: 'components/xterm.js/xterm',
typeahead: 'components/jquery-typeahead/dist/jquery.typeahead.min',
},
map: {
// for backward compatibility
"*": {
"jqueryui": "jquery-ui",
}
},
shim: {
typeahead: {
deps: ["jquery"],
exports: "typeahead"
},
underscore: {
exports: '_'
},
backbone: {
deps: ["underscore", "jquery"],
exports: "Backbone"
},
bootstrap: {
deps: ["jquery"],
exports: "bootstrap"
},
bootstraptour: {
deps: ["bootstrap"],
exports: "Tour"
},
Search
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\n
},
waitSeconds: 30,
}
);
require.config({
map: {
'*':{
'contents': 'services/contents',
}
}
}
);
// error-catching custom.js shim.
define("custom", function (require, exports, module) {
try {
var custom = require('custom/custom');
console.debug('loaded custom.js');
return custom;
}
catch (e) {
console.error("error loading custom.js", e);
return {
};
}
}
)
// error-catching custom-preload.js shim.
define("custom-preload", function (require, exports, module) {
try {
var custom = require('custom/custom-preload');
console.debug('loaded custom-preload.js');
return custom;
}
catch (e) {


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\n
return {
};
}
}
)
document.nbjs_translations = {
"domain": "nbjs", "locale_data": {
"nbjs": {
"": {
"domain": "nbjs"
}
}
}
};
document.documentElement.lang = navigator.language.toLowerCase();
</script>
</head>
<body class=""
data-base-url="/teaml/jupyter/"
data-notebook-path=""
data-terminals-available="True"
data-server-root="/app/jupyter"
dir="ltr">
<noscript>

Jupyter Notebook requires JavaScript.

Request Response

Pretty Raw Hex Render

```
151           Please enable it to proceed.
152         </div>
153       </noscript>
154
155       <div id="header" role="navigation" aria-label="Top Menu">
156         <div  id="newsId" style="display: none">
157
158           <div class="alert alert-info" role="alert">
159             <div style="display: flex">
160               <div>
161                 <span class="label label-warning">
                    UPDATE
                   </span>
162                 Read <a href="https://jupyter-notebook.readthedocs.io/en/latest/migrate_to_notebook7.html" style="text-decoration: underline;" target="_blank">
                      the migration plan
                    </a>
                    to Notebook 7 to learn about the new features and the actions to take if you are using extensions
163                 -
164                 Please note that updating to Notebook 7 might break some of your extensions.
165               </div>
166               <div style="margin-left: auto;">
167                 <a href="" onclick="alert('This message will not be shown anymore.'); return false;">
168                   <button type="button" class="btn btn-default btn-xs" id="dontShowId">
169                     Don't show anymore
170                   </button>
171                 </a>
172               </div>
173             </div>
174           </div>
175
176         </div>
177         <div id="header-container" class="container">
178           <div id="ipython_notebook" class="nav navbar-brand">
179             <a href="/teaml/jupyter/tree" title='dashboard'>
                  <img src='
                  /teaml/jupyter/static/base/images/logo.png?v=a2a176ee3cee251ffddf5fa21fe8e43727a9e5f87a06f9c91ad7b776d9e9d3d5e0159c16cc188a3965e00375fb4bc336c16067c6
                  88f5040c0c2d4bfdb852a9e4' alt='Jupyter Notebook'/>
180             </a>
```

Request Response

Pretty Raw Hex Render

```
181           </div>
182
183           <span class="flex-spacer">
              </span>
184
185
186
187           <span id="shutdown_widget">
188             <button id="shutdown" class="btn btn-sm navbar-btn"
189             title="Stop the Jupyter server">
190               Quit
191             </button>
192           </span>
193
194
195
196
197
198
199
200           <span id="login_widget">
201
202           </span>
203
204
205
206
207
208         </div>
209         <div class="header-bar">
            </div>
210
211
212
213       </div>
214
215       <div id="site">
```

Search 0 highlights


```
<div id="ipython-main-app" class="container">
  <div id="tab_content" class="tabbable" role="main">
    <ul id="tabs" class="nav nav-tabs">
      <li class="active">
        <a href="#notebooks" data-toggle="tab">
          Files
        </a>
      </li>
      <li>
        <a href="#running" data-toggle="tab">
          Running
        </a>
      </li>
      <li>
        <a href="#clusters" data-toggle="tab" class="clusters_tab_link" >
          Clusters
        </a>
      </li>
    </ul>
    <div class="tab-content">
      <div id="notebooks" class="tab-pane active">
        <div id="notebook_toolbar" class="row">
          <div class="col-sm-8 no-padding">
            <div class="dynamic-instructions">
              Select items to perform actions on them.
            </div>
            <div class="dynamic-buttons">
              <button  title="Duplicate selected" aria-label="Duplicate selected" class="duplicate-button btn btn-default btn-xs" aria-describedby="
              tooltip1">
                Duplicate
              </button>
              <div role="tooltip" id="tooltip1" >
                Duplicate selected
              </div>
              <button title="Rename selected" aria-label="Rename selected" class="rename-button btn btn-default btn-xs" aria-describedby="tooltip2">
                Rename
              </button>
              <div role="tooltip" id="tooltip2" >
```

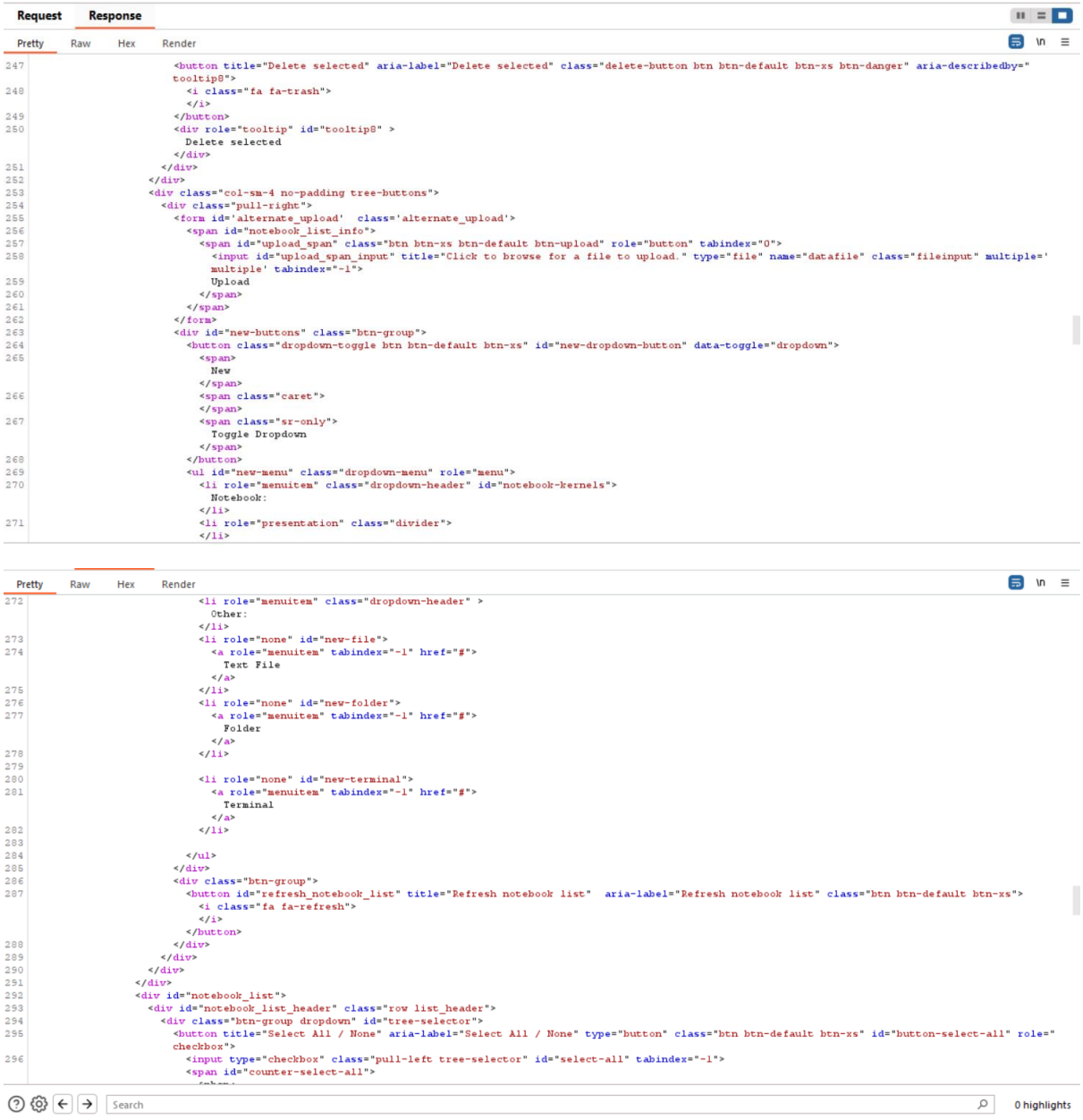

```
                Rename selected
              </div>

              <button title="Move selected" aria-label="Move selected" class="move-button btn btn-default btn-xs" aria-describedby="tooltip3">
                Move
              </button>
              <div role="tooltip" id="tooltip3" >
                Move selected
              </div>

              <button title="Download selected" aria-label="Download selected" class="download-button btn btn-default btn-xs" aria-describedby="tooltip4">
                Download
              </button>
              <div role="tooltip" id="tooltip4" >
                Download selected
              </div>
              <button title="Shutdown selected notebook(s)" aria-label="Shutdown selected notebook(s)" class="shutdown-button btn btn-default btn-xs
              btn-warning" aria-describedby="tooltip5">
                Shutdown
              </button>
              <div role="tooltip" id="tooltip5" >
                Shutdown selected notebook(s)
              </div>

              <button title="View selected" aria-label="View selected" class="view-button btn btn-default btn-xs" aria-describedby="tooltip6">
                View
              </button>
              <div role="tooltip" id="tooltip6" >
                View selected
              </div>

              <button title="Edit selected" aria-label="Edit selected" class="edit-button btn btn-default btn-xs" aria-describedby="tooltip7">
                Edit
              </button>
              <div role="tooltip" id="tooltip7" >
                Edit selected
              </div>
```


Request
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<button title="Delete selected" aria-label="Delete selected" class="delete-button btn btn-default btn-xs btn-danger" aria-describedby="tooltip8">

</button>

Delete selected

<form id='alternate_upload' class='alternate_upload'>

<input id="upload_span_input" title="Click to browse for a file to upload." type="file" name="datafile" class="fileinput" multiple='multiple' tabindex="-1">
Upload

</form>

<button class="dropdown-toggle btn btn-default btn-xs" id="new-dropdown-button" data-toggle="dropdown">

New

Toggle Dropdown

</button>
<ul id="new-menu" class="dropdown-menu" role="menu">
<li role="menuitem" class="dropdown-header" id="notebook-kernels">
Notebook:

<li role="presentation" class="divider">

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<li role="menuitem" class="dropdown-header" >
Other:

<li role="none" id="new-file">

Text File

<li role="none" id="new-folder">

Folder

<li role="none" id="new-terminal">

Terminal

<button id="refresh_notebook_list" title="Refresh notebook list" aria-label="Refresh notebook list" class="btn btn-default btn-xs">

</button>

<button title="Select All / None" aria-label="Select All / None" type="button" class="btn btn-default btn-xs" id="button-select-all" role="checkbox">
<input type="checkbox" class="pull-left tree-selector" id="select-all" tabindex="-1">

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</input>
</button>
<button title="Select Folders/All Notebooks/Running/Files" class="btn btn-default btn-xs dropdown-toggle" type="button" id="tree-selector-btn
" data-toggle="dropdown" aria-expanded="true">

checkbox

Toggle Dropdown

</button>
<ul id='selector-menu' class="dropdown-menu" role="menu" aria-labelledby="tree-selector-btn">
<li role="none">

 Folders

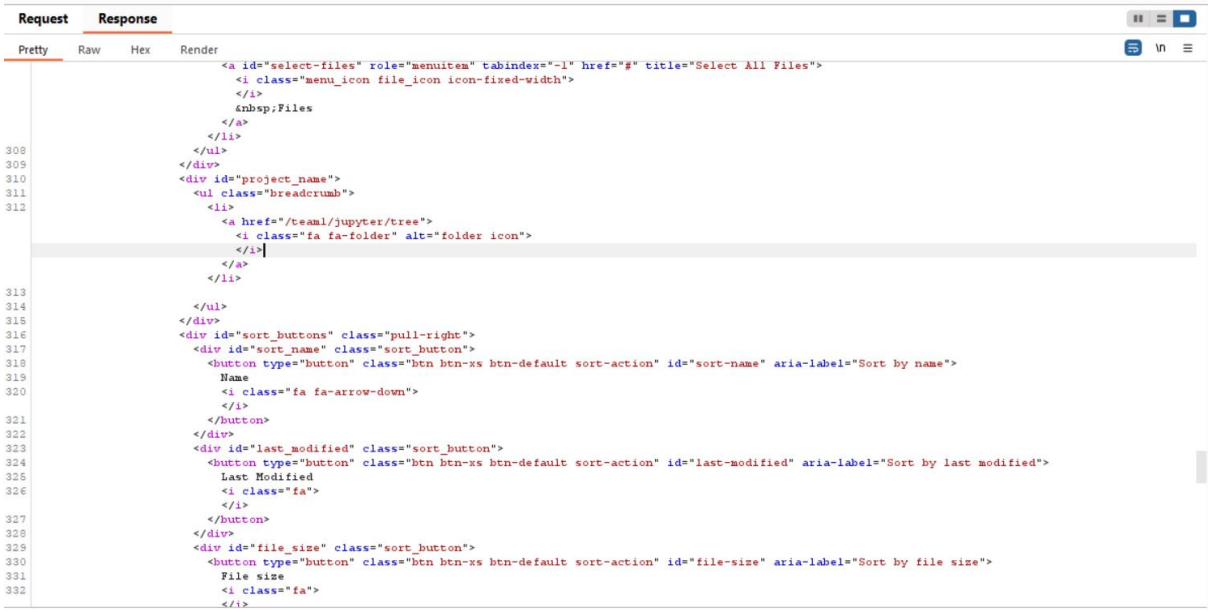
<li role="none">

 All Notebooks

<li role="none">

 Running

<li role="none">
Search
0 highlights


Request
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 Files

<ul class="breadcrumb">

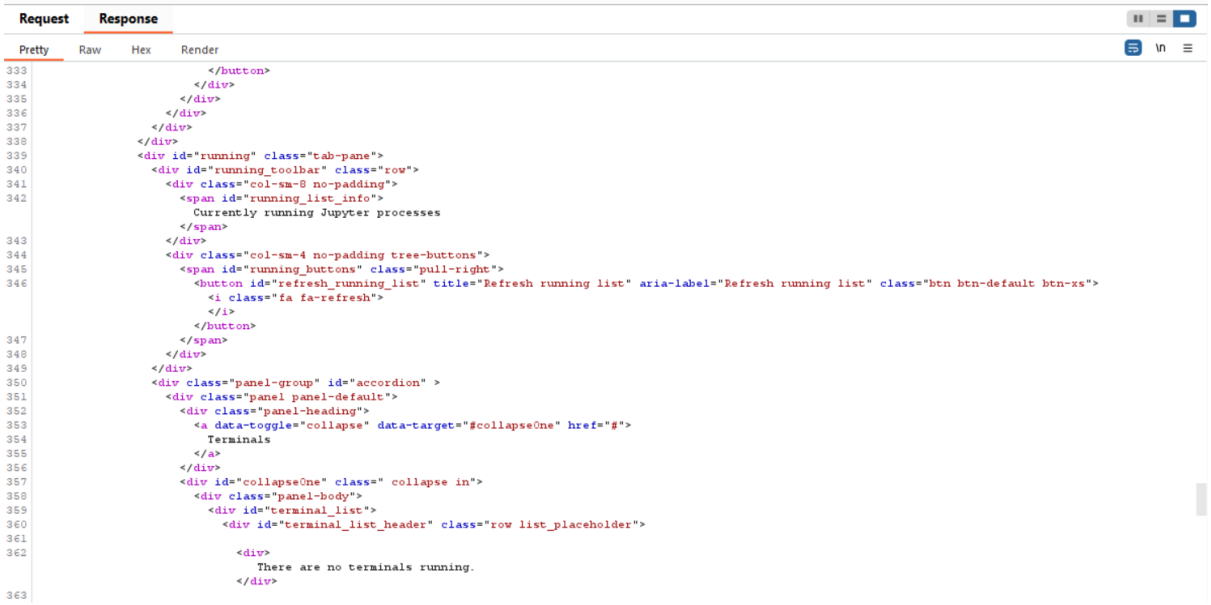
<button type="button" class="btn btn-xs btn-default sort-action" id="sort-name" aria-label="Sort by name">
Name

</button>

<button type="button" class="btn btn-xs btn-default sort-action" id="last-modified" aria-label="Sort by last modified">
Last Modified

</button>

<button type="button" class="btn btn-xs btn-default sort-action" id="file-size" aria-label="Sort by file size">
File size



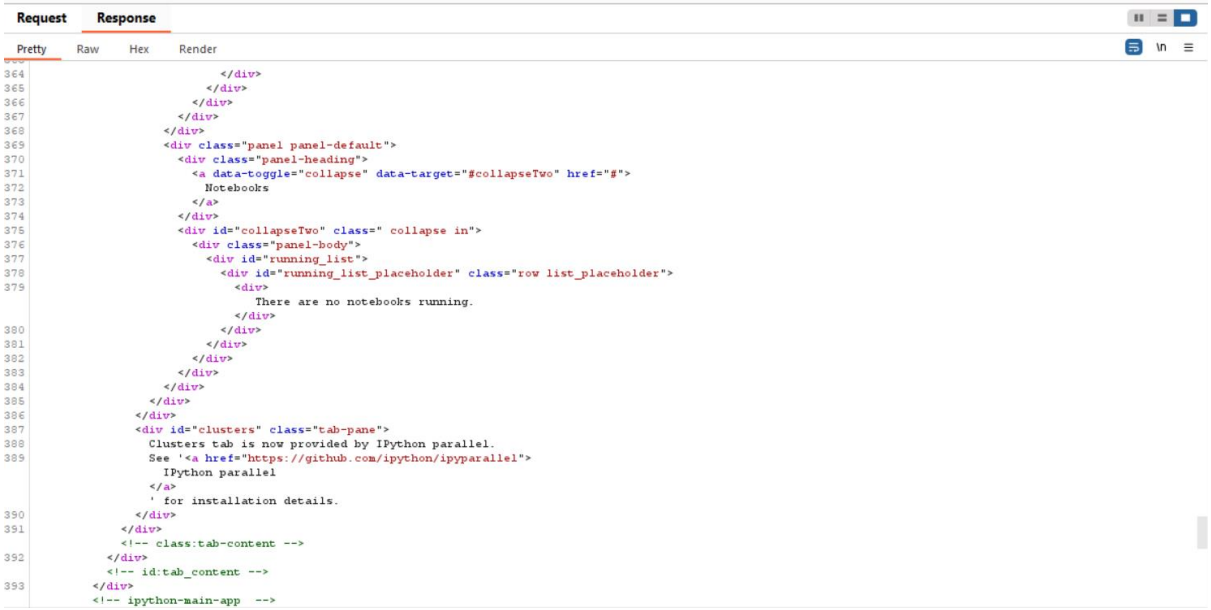
Request Response

Pretty Raw Hex Render \n

```
                    </button>
                  </div>
                </div>
              </div>
            </div>
          </div>
          <div id="running" class="tab-pane">
            <div id="running_toolbar" class="row">
              <div class="col-sm-8 no-padding">
                <span id="running_list_info">
                  Currently running Jupyter processes
                </span>
              </div>
              <div class="col-sm-4 no-padding tree-buttons">
                <span id="running_buttons" class="pull-right">
                  <button id="refresh_running_list" title="Refresh running list" aria-label="Refresh running list" class="btn btn-default btn-xs">
                    <i class="fa fa-refresh">
                    </i>
                  </button>
                </span>
              </div>
            </div>
            <div class="panel-group" id="accordion" >
              <div class="panel panel-default">
                <div class="panel-heading">
                  <a data-toggle="collapse" data-target="#collapseOne" href="#">
                    Terminals
                  </a>
                </div>
                <div id="collapseOne" class=" collapse in">
                  <div class="panel-body">
                    <div id="terminal_list">
                      <div id="terminal_list_header" class="row list_placeholder">

                        <div>
                           There are no terminals running.
                        </div>

```



Request Response

Pretty Raw Hex Render \n

```
                    </div>
                  </div>
                </div>
              </div>
              <div class="panel panel-default">
                <div class="panel-heading">
                  <a data-toggle="collapse" data-target="#collapseTwo" href="#">
                    Notebooks
                  </a>
                </div>
                <div id="collapseTwo" class=" collapse in">
                  <div class="panel-body">
                    <div id="running_list">
                      <div id="running_list_placeholder" class="row list_placeholder">
                        <div>
                           There are no notebooks running.
                        </div>
                      </div>
                    </div>
                  </div>
                </div>
              </div>
            </div>
          </div>
          <div id="clusters" class="tab-pane">
            Clusters tab is now provided by IPython parallel.
            See '<a href="https://github.com/ipython/ipyparallel">
              IPython parallel
            </a>
            ' for installation details.
          </div>
        </div>
        <!-- class:tab-content -->
      </div>
      <!-- id:tab_content -->
    </div>
    <!-- ipython-main-app  -->
```

```
Pretty  Raw  Hex  Render

395
396     </div>
397
398
399
400
401
402
403
404     <script src="
        /teaml/jupyter/static/tree/js/main.min.js?v=17b01c53d1f313a1c8db8c3d1ed29350f9b3415f9fdb158eec238d1fb5b0d7e1226de2bbe97541223663 65ed03b74889d1a7854b720391b1e
        25bed20198cf609" type="text/javascript" charset="utf-8">
        </script>
405
406     <script type="text/javascript">
407       $('#element').tooltip('enable')
408       </script>
409
410
411       <script type='text/javascript'>
412         function _remove_token_from_url() {
413           if (window.location.search.length <= 1) {
414             return;
415           }
416           var search_parameters = window.location.search.slice(1).split('&');
417           for (var i = 0;
                i < search_parameters.length;
                i++) {
418             if (search_parameters[i].split('=')[0] === 'token') {
419               // remote token from search parameters
420               search_parameters.splice(i, 1);
421               var new_search = '';
422               if (search_parameters.length) {
423                 new_search = '?' + search_parameters.join('&');
424               }
425               var new_url = window.location.origin +
426               window.location.pathname +
427               new_search +
```

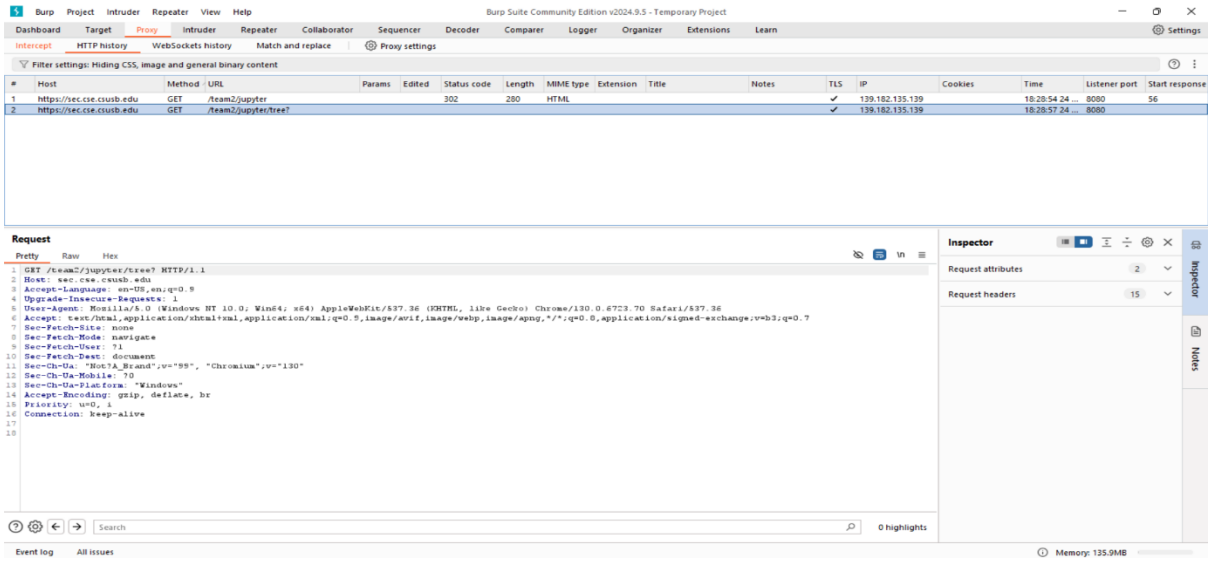
```
Request  Response

Pretty  Raw  Hex  Render

421               var new_search = '';
422               if (search_parameters.length) {
423                 new_search = '?' + search_parameters.join('&');
424               }
425               var new_url = window.location.origin +
426               window.location.pathname +
427               new_search +
428               window.location.hash;
429               window.history.replaceState({
                  },
                   "", new_url);
430               return;
431             }
432           }
433         }
434         _remove_token_from_url();
435         sys_info = {
            "notebook_version": "6.5.7", "notebook_path": "/opt/miniforge/envs/teaml_env/lib/python3.10/site-packages/notebook", "commit_source": "", "commit_hash"
            : "", "sys_version": "3.10.15 | packaged by conda-forge | (main, Oct 16 2024, 01:24:24) [GCC 13.3.0]", "sys_executable":
            "/opt/miniforge/envs/teaml_env/bin/python3.10", "sys_platform": "linux", "platform": "Linux-6.1.0-23-amd64-x86_64-with-glibc2.36", "os_name": "posix",
            "default_encoding": "utf-8"
          };
436         document.addEventListener('DOMContentLoaded', function () {
437           const newsId = document.querySelector('#newsId');
438           const dontShowId = document.querySelector('#dontShowId');
439           const showNotebookNews = localStorage.getItem('showNotebookNews');
440           dontShowId.addEventListener('click', () => {
441             localStorage.setItem('showNotebookNews', false);
442             newsId.style.display = 'none';
443           }
              );
444           if (!showNotebookNews) newsId.style.display = 'inline';
445         }
            );
446       </script>
447     </body>
448
449   </html>
```

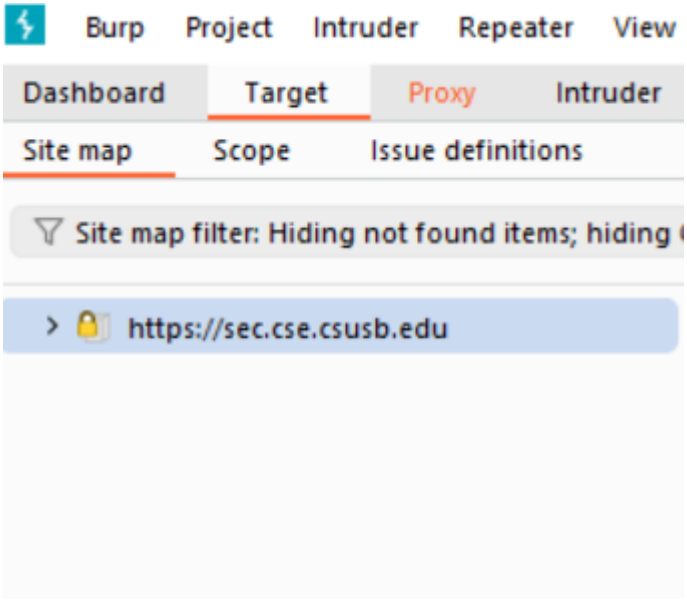
Search 0 highlights

HTTP Requests

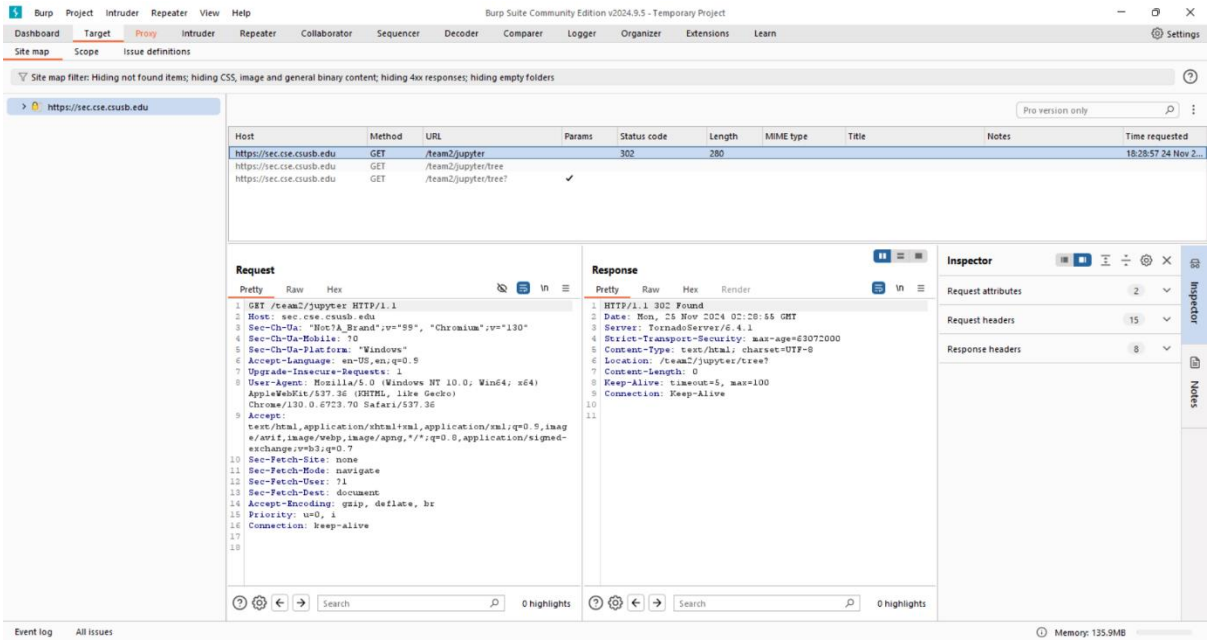


Sitemap analysis:

- Endpoint analyzed



Sitemap Screenshots:

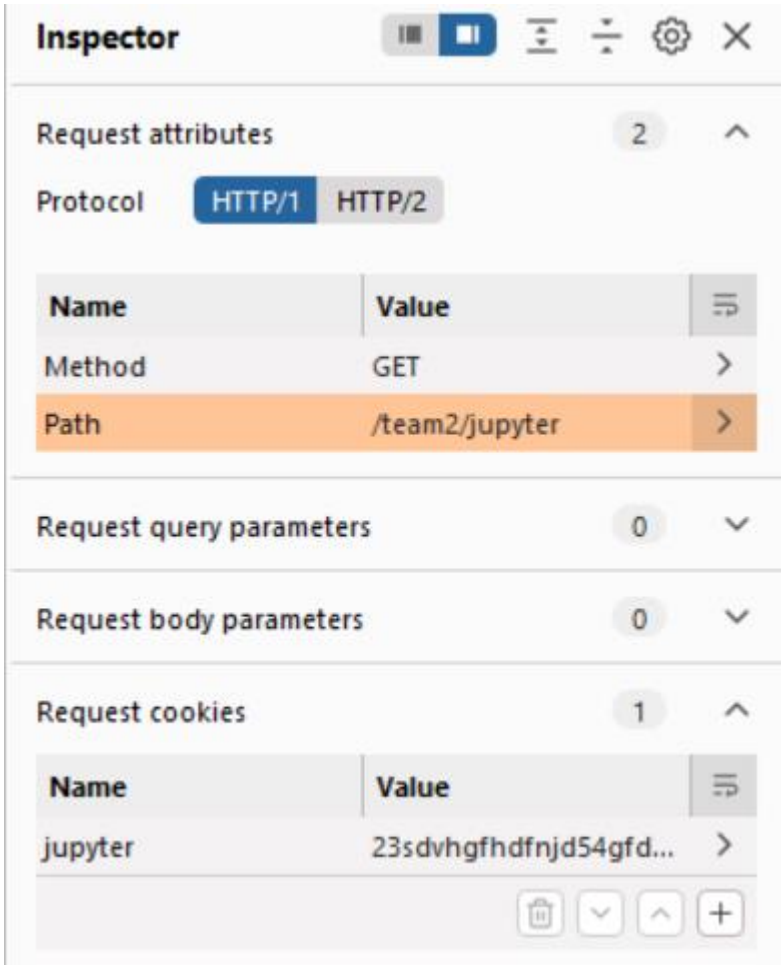


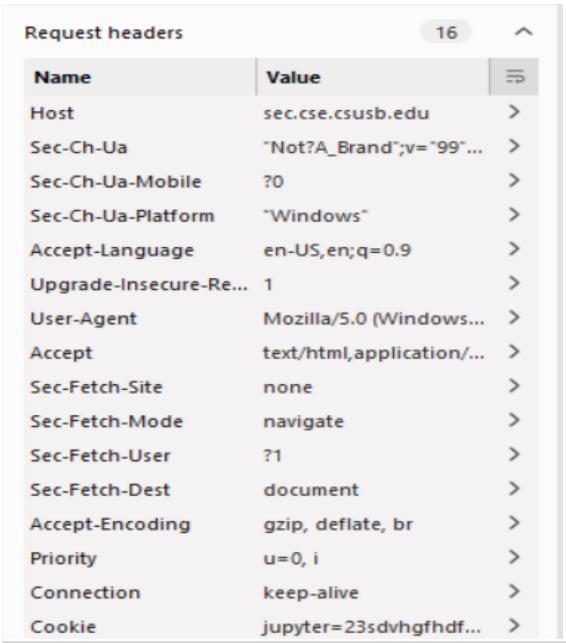
Dash board inspector

• **Request Headers:** "Connection: keep-alive" header keeps the connection open for multiple requests, improving network performance by reusing the same connection

• **Response Headers:** “vary: Accept -Encoding” the response may change based on the client's Accept-Encoding, typically to handle compressed formats like gzip or deflate

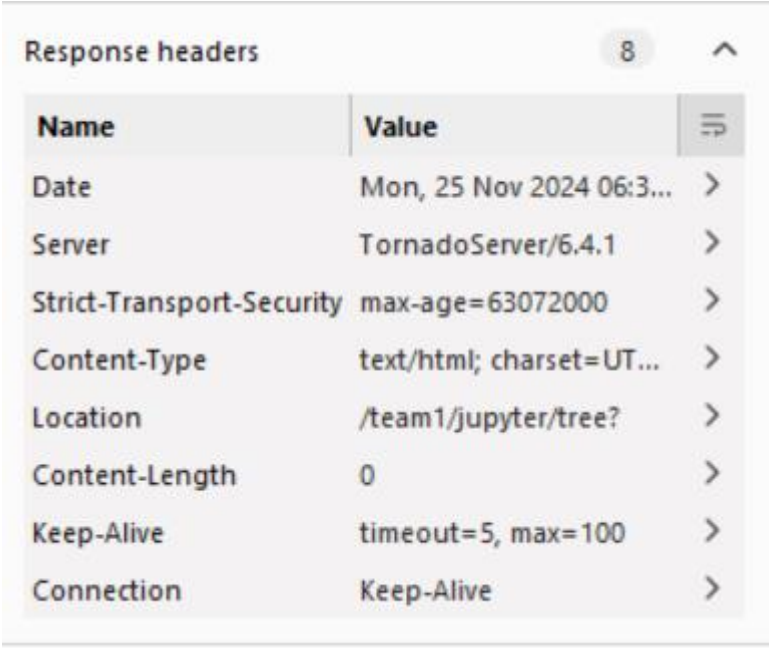
Screenshots for inspector





Request headers 16

Name	Value
Host	sec.cse.csusb.edu
Sec-Ch-Ua	"Not?A_Brand";v="99"...
Sec-Ch-Ua-Mobile	?0
Sec-Ch-Ua-Platform	"Windows"
Accept-Language	en-US,en;q=0.9
Upgrade-Insecure-Re...	1
User-Agent	Mozilla/5.0 (Windows...
Accept	text/html,application/...
Sec-Fetch-Site	none
Sec-Fetch-Mode	navigate
Sec-Fetch-User	?1
Sec-Fetch-Dest	document
Accept-Encoding	gzip, deflate, br
Priority	u=0, i
Connection	keep-alive
Cookie	jupyter=23sdvhgfhdf...



Response headers 8

Name	Value
Date	Mon, 25 Nov 2024 06:3...
Server	TornadoServer/6.4.1
Strict-Transport-Security	max-age=63072000
Content-Type	text/html; charset=UT...
Location	/team1/jupyter/tree?
Content-Length	0
Keep-Alive	timeout=5, max=100
Connection	Keep-Alive

Conclusion:

•HTTP Headers:

- "Connection: keep-alive" enhances performance but may pose security risks if not managed
- "Vary: Accept-Encoding" optimizes caching but could lead to cache poisoning if misconfigured