SenseIT Back-end RESTful API

A RESTful API for Automatic Accessibility Testing

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Abstract

This is a documentation of the RESTful API provided by the SenseIT automated accessibility testing service.

The API is provided to allow users to develop their own application that utilizes the tool for scanning websites and discovering accessibility issues.

General

Prefix – The prefix for all endpoints is: api/v1.

Example url: <server domain>/api/v1/<endpoint>

All endpoints allow access to authenticated users only.

Endpoints

Login

This is required in order to use the rest of the API.

URL	api/v1/auth/login
Method	POST
URL Parameters	None
Data Parameters	{"username": <existing name="" user="">, "password": <the password="" relevant="">}</the></existing>
Success Response	Content: {"key": <text -="" authentication="" key="">} Example: {</text>
	"key": "078027a1883eb765173fe796d0c1f005ad955ee5" }
Error Response	Code: 400 Content: { "non_field_errors": ["Unable to log in with provided credentials."] }

Logout

URL	api/v1/auth/logout
Method	POST
URL Parameters	None
Data Parameters	N
Success Response	Code: 200 { "detail": "Successfully logged out." }
Error Response	

Scan List

Provides a list of scans for the current user (owned by current user)

URL	api/v1/
Method	GET, POST
URL Parameters	None
Data Parameters	None
Success Response	Code: 200 Content: [
Error Response	Code: 401 Content: Unauthorized

Start Scan

Starts a new scan

URL	api/v1/scan
Method	GET, POST
URL Parameters	None
Data Parameters	{"url": <url>, "type":<"one" "full"> one - single page only. Full - whole website Example: {"url": "https://apple.com", "type":"full"}</url>
Success Response	Code: 200 Content: {"scan_id": <number>} Example: {"scan_id": 122}</number>
Error Response	Code: 401 Content: Unauthorized Code: 400 Content: Invalid Form

Scan Status

Returns scan status

URL	api/v1/status/ <scan id=""></scan>
Method	GET, POST
URL Parameters	<number> - Scan id Example: 122</number>
Data Parameters	None
Success Response	Code: 200 Content: {"scan": <number>, "status": <"ready" "loading" "scanning">} ready - results are available. scanning - still running results not available yet. loading - results are being loaded not available yet. Example: {"scan": 122, "scanning"}</number>
Error Response	Code: 401 Content: Unauthorized

Scan Errors

Returns scan results

```
URL
                   api/v1/errors/<scan id>
Method
                   GET, POST
URL Parameters
                   <number> - Scan id
                   Example: 122
Data Parameters
                   None
Success Response
                  Code: 200
                   Content:
                     {"severity": <"critical" | "serious" | "moderate">,
                      "name": <text - error name>,
                       "criterion": < list of comma separated numbers>,
                      "description": <text>,
                      "fix": <text - how to fix recommendation>,
                      "avoid": <text - how to avoid recommendation>,
                      "source": < "Unknown" |
                                   "Global errors" |
                                   "HTML errors" |
                                   "Text errors |
                                   "Link errors |
                                   "List errors |
                                   "Language errors |
                                   "Table errors I
                                   "Frame errors I
                                   "Image errors |
                                   "Form errors |
                                   "|S errors |
                                   "Other errors >,
                       "errors":
                         {"url": <url - where occured>,
                          "lines": <comma separated list of line numbers,
                                      when available>
                         },
                       ]
                   ]
                   Example:
                    {
```

```
"severity": "Critical",
      "name": "This page uses JavaScript with the
'object.write' method to add content to a page .",
      "criterion": "1.3.1".
      "description": "The 'object.write' method does not
work with XHTML when served with the correct MIME type
(application/xhtml+xml). Assistive Technologies will miss it
and it should be avoided.".
      "fix": "Please remove the 'object.write' shown in the
references below. To create elements within the DOM, you
may use the 'createElement' function or any other valid
option, associated with an 'aria-live' attribute.",
      "avoid": "For pages that dynamically create new
content, do not use the 'object, write' method.",
      "source": "JS errors",
      "errors": [
            "url": "https://d2z0twhaibasxg.cloudfront.net/js/
za widget 354a.js",
            "lines": ""
         },
         {
            "url":
"https://www.google-analytics.com/analytics.js",
            "lines": ""
         }
      ]
   }, {
      "severity": "Serious",
      "name": "This page has at least one form field with a
<button> tag missing a 'type' attribute.",
      "criterion": "1.1.1",
      "description": "A <button> tag can vary in many
ways, depending on the 'type' attribute. Hence, it is
important to specify and identify the button's purpose for
all users.",
      "fix": "Please add a 'type' attribute to the <button>
tags shown in the references below.",
      "avoid": "Each <button> tag must have a 'type'
attribute specifying it's purpose.",
      "source": "Form errors",
      "errors": [
         {
            "url": "https://www.fnx.co.il",
            "lines": "741,742"
         },
            "url": "https://www.fnx.co.il",
            "lines": "1906.1907"
         },
```

```
"url": "https://www.fnx.co.il",
                                 "lines": "1992,1993"
                             },
                                 "url": "https://www.fnx.co.il",
                                 "lines": "2090,2091"
                             },
                                 "url": "https://www.fnx.co.il",
                                 "lines": "2136.2137"
                             },
                                 "url": "https://www.fnx.co.il",
                                 "lines": "2190.2191"
                             },
                                 "url": "https://www.fnx.co.il",
                                 "lines": "2220,2221"
                             },
                                 "url": "https://www.fnx.co.il",
                                 "lines": "3181"
                          1
                       },
                          "severity": "Serious",
                          "name": "This page has at least one <iframe> tag
                    with a 'src' attribute with no value set to it.",
                          "criterion": "4.1.1",
                          "description": "A 'src' attribute with no valid content
                    in it, in an <iframe> tag, means nothing will be shown in
                    it.",
                          "fix": "Please add valid content to the 'src' attribute
                    to the <iframe> tags in the references shown below.",
                          "avoid": "Each <iframe> tag must have a 'src'
                    attribute with valid content in it.",
                          "source": "Frame errors",
                          "errors": [
                             {
                                 "url": "https://www.fnx.co.il",
                                 "lines": "2329"
                          ]
                       },
                    Code: 401
Error Response
```

Content: Unauthorized

Documentation

Open this file.

URL	api/v1/auth/documentation
Method	GET
URL Parameters	None
Data Parameters	None
Success Response	Code: 200 Content: This file
Error Response	Code: 403 Content: Not Authorized Code: 404 Content: Not Found