CSC342 Raleigh Public Record Voters Guide Functional Spec

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Backend Data Sources

NC house / senate member voting details

       http://www.ncleg.net/

NC campaign finance records

       http://app.ncsbe.gov/webapps/cf_rpt_search_org/

US campaign finance records

       http://www.fec.gov/disclosure.shtml

US house / senate member voting details

       https://www.govtrack.us/congress/votes

Backend API

Search/List Candidates

Request URL	/candidates
Request type	GET
Parameters	position : [optional] a single (case-insensitive) string of space separated keywords name : [optional] a single (case-insensitive) string of space separated keywords party : [optional] a single (case-insensitive) string of space separated keywords

Request example (jQuery AJAX)	```
	<script>
	$.ajax({
	    url: "/candidates",
	    type: "GET",
	    dataType: "json",
	    data: {
	        "name": "underwood",
	        "party": "democrat",
	        "position": "house"
	    },
	    success: function(data){
	        //do something with the response object
	    },
	    error: function(error){
	        console.log("Error:\n"+error);
	    }
	});
	</script>
	``

Response format	JSON array of of objects each containing the following information:
	      id: the candidate's assigned id number
	      firstName: the candidate's first name
	      lastName: the candidate's last name
	      position: a list of IDs of positions the candidate is running for
	      level : Federal | State | Local for the locality of the position
	      party: the party the candidate is affiliated with
	      shortDesc : a 1 of 2 sentence description of the candidate
	      img : a link to an image to use as a thumbnail

Response example	[{

"id": 12,
    "firstName": "Francis",
    "lastName": "Underwood",
    "position": [4],
    "party": "Democrat",
    "shortDesc": "Democratic Majority Whip in the United States House of
Representatives representing South Carolina\'s 5th congressional district
since 1990",
    "img":
"https://pbs.twimg.com/profile_images/3210714480/7462307a8a69c3e7a
a725c14fa6908ae_bigger.jpeg"
}
]

Get Candidate Details

Request URL	/candidates/id
Request type	GET
Parameters	limit: [optional] an integer of maximum items to return for list fields (pastPositions, articles, etc.) (-1 for all) (default 10)

Response format	JSON object having the following attributes
	    id: the candidate's assigned id number
	    firstName : The candidate's first name
	    lastName : The candidate's last name
	    position : A list of IDs of the positions the candidate is running for
	    party : The party the candidate is affiliated with
	    shortDesc : A short description of the candidate
	    img : A URL to an image of the candidate
	    longDesc: a long description / bio (a paragraph or two)
	    pastPositions: a list of past governmental positions the candidate held
	    articles: a list of links to articles about the candidate and article titles in order of most recent first (RPR articles only)
	    prevFinance: if the candidate has availible campaign finance information the contributors will be returned in a list
	    voteRecord: if available, a list of bills that the candidate voted on in the past, and the number of votes by all members for/against the bill, and its outcome (only applies for incumbent house/senate)
	    committees: if available, a list of committees that the candidate serves on (on applies for incumbent house/senate)
	    additionalData: [optional] a blob of data set from administrative panel for adding any data missed by the existing fields.

Request example (jQuery AJAX)	<pre><script>
	$.ajax({
	   url: "/candidates/7",
	   type: "GET",
	   dataType: "json",
	   data: {"limit" : 3},
	   success: function(data){
	     //do something with the response object
	   },
	   error: function(error){
	     console.log("Error:\n"+error);
	   }
	});
	</script></pre>

Response example	{
	   "firstName": "Avila",
	   "lastName": "Marilyn",
	   "position": [9],
	   "party": "Republican",
	   "shortDesc": "Marilyn Avila represents the 40th district on the North Carolina House of Representatives. She first won office in the 2006 election",
	   "img":"http://www.ncleg.net/House/pictures/568.jpg",
	   "longDesc" : "Marilyn Avila represents the 40th district on the North Carolina House of Representatives. She first won office in the 2006 election. She chairs the Appropriations Subcommittee on Health and Human Services, Commerce and Job Development Subcommittee on Science and Technology Unemployment Fraud Task Force. Rep. Avila also sits on the Appropriations Committee, Appropriations Subcommittee on Education, Commerce and Job Development Committee, Education Committee, Ethics Committee, House Select Committee on Certificate of Need Process and Related Hospital Issues, House Select Committee on Education Reform, House Select Committee on State-Owned Assets, State Personnel Committee, and Transportation Committee
	Her professional career includes working as a chemist for HanesBrands, Inc., for the public policy think tank John Locke Foundation and hairstylin salon owner",
	   "pastPositions" : [{"NC house", 2006} , {"NC house", 2008} , {"NC house", 2010} , {"NC house", 2012}],
	   "prevFinances" : [{ "contributor" : "NC Dental PAC" , "amtToDate" : 7000 }, { "contributor" : "DUKE ENERGY CORP PAC" , "amtToDate" : 3500 }, { "contributor" : "CENTURYLINK EMPLOYEES PAC" , "amtToDate" : 3000 }] ,
	   "voteRecord" : [{ "bill" : "72" , "description" : "Motion 12 - for UNC Boa of Gov. Elections" , "vote" : "Aye" , "for" : 113 , "against" : 0 , "outcome" : "PASS" } , { "bill" : "HR 1" , "description" : " 2013 House Temporary Rules. R2 For Adoption" , "vote" : "Aye" , "for" : 87 , "against" : 32 , "outcome" : "PASS" }, { "bill" : "HR 2" , "description" : "Honor Representative William L. Wainwright. R2 For Adoption" , "vote" : "Aye" , "for" : 120 , "against" : 0 , "outcome" : "PASS" }] ,
	   "committees" : [{"committee" : "Appropriations" , "status" : "Vice-Chairman"}, {"committee" : "Appropriations Subcommittee on Health and Human Services" , "status" : "Chairman"},{"committee" : "Appropriations Subcommittee on Information Technology" , "status" : "Member"}],
	   "additionalData" : {}
	}

Add New Candidate

(Requires Authentication)

Request URL	/candidates
Request type	POST
Parameters	firstName : The candidate's first name lastName : The candidate's last name position : [optional] A list of IDs of the positions the candidate is running for party : [optional] The party the candidate is affiliated with shortDesc : [optional] A short description of the candidate img: [optional] a URL for an image of the candidate additionalData : [optional] a blob of data for any data missed by existing fields

Response format	JSON object for the added candidate containing the following attributes:
	    id : the generated id number associated with the candidate
	    firstName : The candidate's first name
	    lastName : The candidate's last name
	    position : A list of IDs of the positions the candidate is running for
	    party : The party the candidate is affiliated with
	    shortDesc : A short description of the candidate
	    img: a URL for an image of the candidate
	    additionalData : a blob of data for any data missed by existing fields

Request example (jQuery AJAX)	<script>
	$.ajax({
	   url: "/candidates",
	   type: "POST",
	   dataType: "json",
	   data: {
	   "firstName": "Avila",
	   "lastName": "Marilyn",
	   "position": [9],
	   "party": "Republican",
	   "shortDesc": "Marilyn Avila represents the 40th district on the North Carolina House of Representatives. She first won office in the 2006 election"
	   },
	   success: function(data){
	     //do something with the response object
	   },
	   error: function(error){
	     console.log("Error:\n"+error);

| | ```
      }
  });
</script>
``` |
| Response example | ```
{
    "id": 7,
    "firstName": "Avila",
    "lastName": "Marilyn",
    "position": [9],
    "party": "Republican",
    "shortDesc": "Marilyn Avila represents the 40th district on the North Carolina House of Representatives. She first won office in the 2006 election",
    "img": "",
    "additionalData": {}
}
``` |

Update Candidate

(Requires Authentication)

Request URL	/candidates/id
Request type	PUT
Parameters	firstName : [optional] The candidate's first name lastName : [optional] The candidate's last name position : [optional] A list of IDs of the positions the candidate is running for party : [optional] The party the candidate is affiliated with shortDesc : [optional] A short description of the candidate img : [optional] A URL to an image of the candidate longDesc: [optional] a long description / bio (a paragraph or two) pastPositions: [optional] a list of past governmental positions the candidate held articles: a list of links to articles about the candidate and article titles in order of most recent first (RPR articles only) prevFinance: [optional] if the candidate has availible campaign finance information the contributors will be returned in a list voteRecord: [optional] if available, a list of bills that the candidate voted o in the past, and the number of votes by all members for/against the bill, and its outcome (only applies for incumbent house/senate) committees: [optional] if available, a list of committees that the candidate serves on (on applies for incumbent house/senate) additionalData: [optional] a blob of data set from administrative panel for adding any data missed by the existing fields.

Response format	JSON object for the updated candidate containing the following attributes
	    id: the candidate's assigned id number
	    firstName : The candidate's first name
	    lastName : The candidate's last name
	    position : A list of IDs of the positions the candidate is running for
	    party : The party the candidate is affiliated with
	    shortDesc : A short description of the candidate
	    img : A URL to an image of the candidate
	    longDesc: a long description / bio (a paragraph or two)
	    pastPositions: a list of past governmental positions the candidate held
	    articles: a list of links to articles about the candidate and article titles in order of most recent first (RPR articles only)
	    prevFinance: if the candidate has availible campaign finance information the contributors will be returned in a list
	    voteRecord: if available, a list of bills that the candidate voted on i the past, and the number of votes by all members for/against the bill, and its outcome (only applies for incumbent house/senate)

	committees: if available, a list of committees that the candidate serves on (on applies for incumbent house/senate) additionalData: [optional] a blob of data set from administrative panel for adding any data missed by the existing fields.

Request example (jQuery AJAX)	```
	<script>
	$.ajax({
	   url: "/candidates/7",
	   type: "PUT",
	   dataType: "json",
	   data: {
	   "lastName": "Smith"
	   },
	   success: function(data){
	      //do something with the response object
	   },
	   error: function(error){
	      console.log("Error:\n"+error);
	   }
	});
	</script>
	``

Response example	```
	{
	   "firstName": "Avila",
	   "lastName": "Smith",
	   "position": [9],
	   "party": "Republican",
	   "shortDesc": "Marilyn Avila represents the 40th district on the North Carolina House of Representatives. She first won office in the 2006 election",
	   "img":"http://www.ncleg.net/House/pictures/568.jpg",
	   "longDesc" : "Marilyn Avila represents the 40th district on the North Carolina House of Representatives. She first won office in the 2006 election. She chairs the Appropriations Subcommittee on Health and Human Services, Commerce and Job Development Subcommittee on Science and Technology Unemployment Fraud Task Force. Rep. Avila also sits on the Appropriations Committee, Appropriations Subcommittee on Education, Commerce and Job Development Committee, Education Committee, Ethics Committee, House Select Committee on Certificate of Need Process and Related Hospital Issues, House Select Committee on Education Reform, House Select Committee on State-Owned Assets, State Personnel Committee, and Transportation Committee
	Her professional career includes working as a chemist for HanesBrands, Inc., for the public policy think tank John Locke Foundation and hairstylin salon owner",
	   "pastPositions" : [{"NC house", 2006} , {"NC house", 2008} , {"NC house", 2010} , {"NC house", 2012}],
	``

"prevFinances" : [{ "contributor" : "NC Dental PAC" , "amtToDate" : 7000 }, { "contributor" : "DUKE ENERGY CORP PAC" , "amtToDate" : 3500 }, { "contributor" : "CENTURYLINK EMPLOYEES PAC" , "amtToDate" : 3000 }] ,

"voteRecord" : [{ "bill" : "72" , "description" : "Motion 12 - for UNC Boai of Gov. Elections" , "vote" : "Aye" , "for" : 113 , "against" : 0 , "outcome" : "PASS" } , { "bill" : "HR 1" , "description" : "   2013 House Temporary Rules. R2 For Adoption" , "vote" : "Aye" , "for" : 87 , "against" : 32 , "outcome" : "PASS" }, { "bill" : "HR 2" , "description" : "Honor Representative William L. Wainwright. R2 For Adoption" , "vote" : "Aye" , "for" : 120 , "against" : 0 , "outcome" : "PASS" }] ,

"committees" : [{"committee" : "Appropriations" , "status" : "Vice-Chairman"}, {"committee" : "Appropriations Subcommittee on Health and Human Services" , "status" : "Chairman"},{"committee" : "Appropriations Subcommittee on Information Technology" , "status" : "Member"}],

"additionalData" : {}
}

Delete Candidate

(Requires Authentication)

Request URL	/candidates/id
Request type	DELETE
Parameters	NONE
Response format	204 No Content response
Request example (jQuery AJAX)	```<script>
$.ajax({
url: "/candidates/7",
type: "DELETE",
dataType: "json",
data: {},
success: function(data){
//Indicate deletion was successful
},
error: function(error){
console.log("Error:\n"+error);
}
});
</script>```

Search/List Positions

Request URL	/positions
Request type	GET
Parameters	locality : [optional] Federal | State | Local name : A single string of space separated keywords

Response format	JSON array of of matches each containing the following information:
	      position : The position ID for detail lookup
	      level : Federal | State | Local for the locality of the position
	      name: The full name of the position

Request example (jQuery AJAX)	<pre><script>
	$.ajax({
	    url: "/positions",
	    type: "GET",
	    dataType: "json",
	    data: {
	        "locality": "federal"
	        "name": "house"
	    },
	    success: function(data){
	        //do something with the response object
	    },
	    error: function(error){
	        console.log("Error:\n"+error);
	    }
	});
	</script></pre>

Response example	<pre>[
	{
	    "position": 2,
	    "level":"Federal",
	    "name":"President of the United States"
	}
	]</pre>

Get position details

Request URL	/positions/id
Request type	GET
Parameters	NONE

Response format	JSON object containing the following information:
	      name : The string for the position title
	      level : Federal | State | Local for the locality of the position
	      termLength: length of the position's term (in years)
	      description: a description of the position's duties
	      img: a url for an image for the position

Request example (jQuery AJAX)	<pre><script>
	$.ajax({
	    url: "/positions/2",
	    type: "GET",
	    dataType: "json",
	    data: {},
	    success: function(data){
	        //do something with the response object
	    },
	    error: function(error){
	        console.log("Error:\n"+error);
	    }
	});
	</script></pre>

Response example	<pre>{
	    "name":"President of the United States",
	    "level":"Federal"
	    "termLength": 4,
	    "description":"The President of the United States of America is the head of state and head of government of the United States. The president leads the executive branch of the federal government and is the commander-in-chief of the United States Armed Forces. The president is frequently described as the most powerful person in the world.",
	    "img": ""
	}</pre>

Create position

Request URL	/positions
Request type	POST

Parameters	JSON object containing the following information:
	    name : The string for the position title
	    level : Federal | State | Local for the locality of the position
	    termLength: length of the position's term (in years)
	    description: a description of the position's duties
	    [optional] img: a url for an image for the position

Response format	JSON object containing the following information:
	    id: the ID of the created object
	    name : The string for the position title
	    level : Federal | State | Local for the locality of the position
	    termLength: length of the position's term (in years)
	    description: a description of the position's duties
	    img: a url for an image for the position(may be NULL)

Request example (jQuery AJAX)	(see code below)

```
<script>
$.ajax({
    url: "/positions",
    type: "POST",
    dataType: "json",
    data: {
    "name":"President of the United States",
    "level":"Federal"
    "termLength": 4,
    "description":"The President of the United States of America is the
head of state and head of government of the United States. The
president leads the executive branch of the federal government and is
the commander-in-chief of the United States Armed Forces. The
president is frequently described as the most powerful person in the
world.",
      "img": ""
} ,
    success: function(data){
        //do something with the response object
    },
    error: function(error){
        console.log("Error:\n"+error);
    }
});
</script>
```
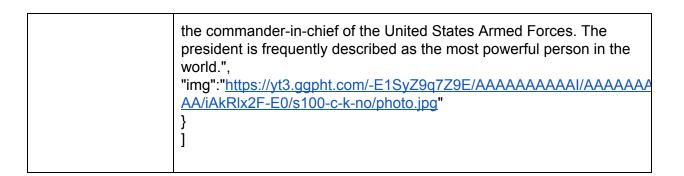
| Response example | ```
[
  {
    "id" : 2,
    "name":"President of the United States",
    "level":"Federal"
    "termLength": 4,
    "description":"The President of the United States of America is the head of state and head of government of the United States. The president leads the executive branch of the federal government and is the commander-in-chief of the United States Armed Forces. The president is frequently described as the most powerful person in the world.",
    "img": ""
  }
]
``` |

Update position

Request URL	/positions/id
Request type	PUT

Parameters	JSON object containing at least one of the following fields to update
	    [optional] name : The string for the position title
	    [optional] level : Federal | State | Local for the locality of the position
	    [optional] termLength: length of the position's term (in years)
	    [optional] description: a description of the position's duties
	    [optional] img: a url for an image for the position

Response format	JSON object containing the following information:
	    name : The string for the position title
	    level : Federal | State | Local for the locality of the position
	    termLength: length of the position's term (in years)
	    description: a description of the position's duties
	    [optional] img: a url for an image for the position

Request example (jQuery AJAX)	<pre><script>\n$.ajax({\n url: "/positions/2",\n type: "POST",\n dataType: "json",\n data: { "img":\n"https://yt3.ggpht.com/-E1SyZ9q7Z9E/AAAAAAAAAAI/AAAAAAAAAAA\nkRlx2F-E0/s100-c-k-no/photo.jpg"\n} ,\n success: function(data){\n //do something with the response object\n },\n error: function(error){\n console.log("Error:\n"+error);\n }\n});\n</script></pre>
Response example	<pre>[\n{\n "name":"President of the United States",\n "level":"Federal"\n "termLength": 4,\n "description":"The President of the United States of America is the\nhead of state and head of government of the United States. The\npresident leads the executive branch of the federal government and is</pre>

	the commander-in-chief of the United States Armed Forces. The president is frequently described as the most powerful person in the world.", "img":"https://yt3.ggpht.com/-E1SyZ9q7Z9E/AAAAAAAAAAI/AAAAAAAAAA/iAkRlx2F-E0/s100-c-k-no/photo.jpg" }]

Delete position

Request URL	/positions/id
Request type	DELETE
Parameters	NONE
Response format	Appropriate HTTP response code

Request example (jQuery AJAX)	```
	<script>
	$.ajax({
	    url: "/positions/2",
	    type: "DELETE",
	    dataType: "json",
	    data: {} ,
	    success: function(data){
	        //do something with the response object
	    },
	    error: function(error){
	        console.log("Error:\n"+error);
	    }
	});
	</script>
	``

Response example	HTTP/1.1 204 NO CONTENT