

Code Inventory Backend API Specification

Table of Contents

1. Overview	1
1.1. URI scheme	1
1.2. Tags	1
Backend API Document	2
2. Notes	3
3. MODEL ENTITIES	4
4. JOBS	17
5. FREE-FORM JSON	20
6. LOCAL ANALYSIS	22
7. RANKER RESULTS	25
8. Resources	27
8.1. Account-resource	27
8.1.1. isAuthenticated	27
8.2. Algorithm-property-resource	27
8.2.1. createAlgorithmProperty	27
8.2.2. getAllAlgorithmProperties	28
8.2.3. updateAlgorithmProperty	28
8.2.4. getAlgorithmProperty	29
8.2.5. deleteAlgorithmProperty	30
8.3. Algorithm-resource	30
8.3.1. createAlgorithm	30
8.3.2. getAllAlgorithms	31
8.3.3. updateAlgorithm	31
8.3.4. getAlgorithm	32
8.3.5. deleteAlgorithm	32
8.4. Config-property-resource	33
8.4.1. createConfigProperty	33
8.4.2. getAllConfigProperties	34
8.4.3. updateConfigProperty	34
8.4.4. getConfigProperty	35
8.4.5. deleteConfigProperty	35
8.5. Config-resource	36
8.5.1. createConfig	36
8.5.2. getAllConfigs	37
8.5.3. updateConfig	37
8.5.4. getConfig	38
8.5.5. deleteConfig	38
8.6. Job-resource	39

8.6.1. createJob	39
8.6.2. getAllJobs	39
8.6.3. updateJob	48
8.6.4. countJobs	48
8.6.5. getJob	54
8.6.6. deleteJob	55
8.7. Org-resource	55
8.7.1. createOrg	55
8.7.2. getAllOrgs	56
8.7.3. updateOrg	56
8.7.4. getOrg	57
8.7.5. deleteOrg	57
8.8. Record-resource	58
8.8.1. createRecord	58
8.8.2. getAllRecords	59
8.8.3. updateRecord	63
8.8.4. countRecords	64
8.8.5. getRecord	69
8.8.6. deleteRecord	69
8.9. Repo-resource	70
8.9.1. createRepo	70
8.9.2. getAllRepos	71
8.9.3. updateRepo	75
8.9.4. countRepos	75
8.9.5. getRepo	79
8.9.6. deleteRepo	80
8.10. Scm-resource	80
8.10.1. createScm	80
8.10.2. getAllScms	81
8.10.3. updateScm	81
8.10.4. getScm	82
8.10.5. deleteScm	83
8.11. Tag-resource	83
8.11.1. createTag	83
8.11.2. getAllTags	84
8.11.3. updateTag	84
8.11.4. getTag	85
8.11.5. deleteTag	85
8.12. Team-resource	86
8.12.1. createTeam	86
8.12.2. getAllTeams	87

8.12.3. updateTeam	87
8.12.4. getTeam	88
8.12.5. deleteTeam	88
8.13. User-jwt-controller	89
8.13.1. authorize	89
9. Definitions	90
9.1. Algorithm	90
9.2. AlgorithmProperty	91
9.3. Config	91
9.4. ConfigProperty	91
9.5. JWTToken	92
9.6. Job	92
9.7. JsonNode	93
9.8. LoginVM	94
9.9. Org	94
9.10. Record	95
9.11. Repo	96
9.12. Scm	96
9.13. Tag	97
9.14. Team	98

Chapter 1. Overview

1.1. URI scheme

Host : localhost:10101

BasePath : /

1.2. Tags

- account-resource : Account Resource
- algorithm-property-resource : Algorithm Property Resource
- algorithm-resource : Algorithm Resource
- config-property-resource : Config Property Resource
- config-resource : Config Resource
- job-resource : Job Resource
- org-resource : Org Resource
- record-resource : Record Resource
- repo-resource : Repo Resource
- scm-resource : Scm Resource
- tag-resource : Tag Resource
- team-resource : Team Resource
- user-jwt-controller : User JWT Controller

Backend API Document

Chapter 2. Notes

- This is subject to multiple changes, esp in object relationships.
- The "id" field is the id generated by our database.
- The original (source system's) id is "ido".
- The "version" field is provided for handling optimistic concurrency.
- API endpoints are RESTful CRUDs.
- For timestamps (**created**, **modified** etc.) the API returns human-formatted strings, e.g. '2018-12-07T19:14:00Z'
- The **weight** is the weight assigned by end-user, 0-100.
- The **rank** is a rank assigned by an algorithm, 0-100.
- The **sort/sortid** is sort order (avoiding "order" name per SQL-reserved word)

Chapter 3. MODEL ENTITIES

/api/configs

```
[
  {
    "id": 43616506,
    "type": "app-config",
    "properties": [
      {
        "name": "prop1",
        "value": "value1"
      },
      {
        "name": "prop2",
        "value": "prop2"
      }
    ],
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,
    "modified": 1542823833,
    "version": 24
  },
  {
    "id": 43616507,
    "type": "veracode-api-config",
    "properties": [
      {
        "name": "key-id",
        "value": "80b5999b680a8b58c051fc0a45412e5b"
      },
      {
        "name": "key-secret",
        "value": "d65f7d70c931d5bf5cd5fcd73e52e8dc833b8cff..."
      }
    ],
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,
    "modified": 1542823833,
    "version": 2
  },
  {
    "id": 43616508,
    "type": "ranker-config",
    "properties": [
      {
        "name": "default-algorithm",
        "value": "RA1"
      }
    ],
  },
]
```



```

    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,
    "modified": 1542823833,
    "version": 14
  }
]

```

Note:

1. Although the children entities (properties) are included with the GET response, you cannot change them with POST/PUT, cause it will only affect the parent object.

To make changes to children, use the **/api/config-properties** endpoint described next.

1. DELETE request will automatically delete config's children configProperties.

/api/config-properties

```

[
  {
    "id": 43616506,
    "name": "property1",
    "value": "value1",
    "config": {
      "id": 1001,
      "type": "app-config",
      "created": "2018-12-05T00:06:58.794Z",
      "modified": "2018-12-05T00:06:58.794Z",
      "version": 1
    }
  },
  {
    "id": 43616507,
    "name": "property2",
    "value": "value2",
    "config": {
      "id": 1001,
      "type": "app-config",
      "created": "2018-12-05T00:06:58.794Z",
      "modified": "2018-12-05T00:06:58.794Z",
      "version": 1
    }
  }
]

```

/api/scms

```

[
  {

```

```

    "id": 43616516,
    "name": "GitHub",
    "type": "GitHub",
    "url": "https://github.com",
    "token": "fb4b759297466f3230e823636cec2043e6938885",
    "disabled": false,
    "checked": true,
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,
    "modified": 1542823833,
    "sort": 1,
    "version": 4
  },
  {
    "id": 43616517,
    "name": "GitHub - Enterprise",
    "type": "GitHubEnterprise",
    "url": "https://org.github.com",
    "token": "fb4b759297466f3230e823636cec2043e6938885",
    "disabled": false,
    "checked": true,
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,
    "modified": 1542823833,
    "sort": 1,
    "version": 14
  },
  {
    "id": 43616518,
    "name": "Bitbucket",
    "type": "Bitbucket",
    "url": "https://bitbucket.org.com",
    "token": "fb4b759297466f3230e823636cec2043e6938885",
    "disabled": true,
    "checked": true,
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,
    "modified": 1542823833,
    "sort": 1,
    "version": 2
  },
  {
    "id": 43616519,
    "name": "GitLab",
    "token": "fb4b759297466f3230e823636cec2043e6938885",
    "type": "GitLab",
    "url": "https://gitlab.org.com",
    "disabled": true,
    "checked": true,
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,

```

```
"modified": 1542823833,  
"sort": 1,  
"version": 11  
}  
]
```

/api/orgs

```
[  
  {  
    "id": 43616527,  
    "ido": 11626503,  
    "name": "Veracode-Innovation-Lab",  
    "url": "https://api.github.com/orgs/Veracode-Innovation-Lab",  
    "scm": "GitHub",  
    "disabled": false,  
    "rank": 90,  
    "importance": 10,  
    "sort": 1,  
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",  
    "created": 1542823833,  
    "modified": 1542823833,  
    "version": 1  
  },  
  {  
    "id": 43616528,  
    "ido": 11626504,  
    "name": "devsecops-community",  
    "url": "https://api.github.com/orgs/devsecops-community",  
    "scm": "GitHub",  
    "disabled": false,  
    "rank": 80,  
    "importance": 1,  
    "sort": 2,  
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",  
    "created": 1542823833,  
    "modified": 1542823833,  
    "version": 7  
  }  
]
```

/api/teams

```
[
  {
    "id": 43616577,
    "ido": 11626546,
    "name": "DevTeam",
    "slug": "devteam",
    "membercount": 3,
    "repocount": 0,
    "url": "https://api.github.com/teams/2975315",
    "scm": "GitHub",
    "disabled": false,
    "rank": 80,
    "importance": 1,
    "org": {
      "id": 43616527,
      "name": "Veracode-Innovation-Lab",
      "order": 1,
      "rank": 90,
      "importance": 10,
      "scm": "GitHub",
      "sort": 1,
      "created": 1542823833,
      "modified": 1542823833,
      "version": 3
    },
    "sort": 2,
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,
    "modified": 1542823833,
    "version": 7
  }
]
```

/api/repos

```
[
  {
    "id": 43615012,
    "ido": 159556743,
    "name": "vc-inlab-cit-backend",
    "fullname": "Veracode-Innovation-Lab/vc-inlab-cit-backend",
    "url": "https://api.github.com/repos/Veracode-Innovation-Lab/vc-inlab-cit-backend",
    "cloneurl": "https://github.com/Veracode-Innovation-Lab/vc-inlab-cit-backend.git",
    "scm": "GitHub",
    "org": {
      "id": 43616527,
      "ido": 43616516,
```

```

    "name": "Veracode-Innovation-Lab",
    "order": 1,
    "rank": 90,
    "importance": 10,
    "scm": "GitHub",
    "sort": 1,
    "created": 1542823833,
    "modified": 1542823833,
    "version": 3
  },
  "disabled": false,
  "rank": 80,
  "importance": 10,
  "sortid": 1,
  "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
  "created": 1542823833,
  "modified": 1542823833,
  "version": 3
},
{
  "id": 43615013,
  "ido": 11626505,
  "name": "vc-inlab-cit-scm-mock",
  "fullname": "Veracode-Innovation-Lab/vc-inlab-cit-scm-mock",
  "url": "https://api.github.com/repos/Veracode-Innovation-Lab/vc-inlab-cit-scm-mock",
  "cloneurl": "https://github.com/Veracode-Innovation-Lab/vc-inlab-cit-scm-mock.git",
  "scm": "GitHub",
  "org": {
    "id": 43616527,
    "ido": 11626503,
    "name": "Veracode-Innovation-Lab",
    "order": 1,
    "rank": 90,
    "importance": 1,
    "scm": "GitHub",
    "sort": 1,
    "created": 1542823833,
    "modified": 1542823833,
    "version": 3
  },
  "disabled": false,
  "rank": 73,
  "importance": 10,
  "sortid": 2,
  "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
  "created": 1542823833,
  "modified": 1542823833,
  "version": 7
},

```

```
{
  "id": 43615014,
  "ido": 159226175,
  "name": "vc-inlab-parent-pom",
  "fullname": "Veracode-Innovation-Lab/vc-inlab-parent-pom",
  "url": "https://api.github.com/repos/Veracode-Innovation-Lab/vc-inlab-parent-pom",
  "cloneurl": "https://github.com/Veracode-Innovation-Lab/vc-inlab-parent-pom.git",
  "scm": "Bitbucket",
  "org": {
    "id": 43616527,
    "name": "Veracode-Innovation-Lab",
    "order": 1,
    "rank": 90,
    "importance": 1,
    "scm": "GitHub",
    "sort": 1,
    "created": 1542823833,
    "modified": 1542823833,
    "version": 3
  },
  "disabled": false,
  "rank": 70,
  "importance": 10,
  "sort": 3,
  "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
  "created": 1542823833,
  "modified": 1542823833,
  "version": 18
}
]
```

/api/tags

Serves app and geo tagging

```
[
  {
    "id": 43615701,
    "type": "app",
    "name": "App1",
    "description": "App description",
    "repos": [
      {
```

```
},  
{
```

```
    }  
  ],  
  "disabled": false,  
  "rank": 90,  
  "weight": 90,  
  "sort": 1,  
  "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",  
  "created": 1542823833,  
  "modified": 1542823833,  
  "version": 1  
},  
{  
  "id": 43615702,  
  "type": "geo",  
  "name": "Region-1",  
  "description": "The Americas",  
  "repos": [  
    {
```

```
},  
{
```

```
    }  
  ],  
  "disabled": false,  
  "rank": 70,  
  "weight": 50,  
  "sort": 2,  
  "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",  
  "created": 1542823833,  
  "modified": 1542823833,  
  "version": 1  
}  
]
```

- Allowed values for **type** field are: 'app', 'geo'.

/api/algorithms

Algorithm configurations for scraping, syncing, analysis, ranking etc.

```
[
```

```

{
  "id": 51115113,
  "type": "asset-syncher",
  "name": "Assetsync-1",
  "slug": "assetsync-1",
  "description": "Default algorithm for asset syncing",
  "invocation": "shell",
  "command": "java --jar /algorithms/asset-syncher.assetsync-1.jar ${backend-url}
${job-id}",
  "properties": [
    {
      "name": "scm-timeout-seconds",
      "value": "30"
    },
    {
      "name": "repo-timeout-seconds",
      "value": "60"
    }
  ],
  "disabled": false,
  "weight": 50,
  "sort": 1,
  "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
  "created": 1542823833,
  "modified": 1542823833,
  "version": 1
},
{
  "id": 51115114,
  "type": "metric-syncher",
  "name": "Metricsync-1",
  "slug": "metricsync-1",
  "description": "Default algorithm for metric syncing",
  "invocation": "shell",
  "command": "java --jar /algorithms/metric-syncher.metricsync-1.jar ${backend-url}
${job-id}",
  "properties": [
    {
      "name": "scm-timeout-seconds",
      "value": "30"
    },
    {
      "name": "repo-timeout-seconds",
      "value": "60"
    }
  ],
  "disabled": false,
  "weight": 50,
  "sort": 1,
  "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
  "created": 1542823833,

```



```

    "modified": 1542823833,
    "version": 1
  },
  {
    "id": 51115115,
    "type": "code-syncher",
    "name": "Codesync-1",
    "slug": "codesync-1",
    "description": "Default algorithm for code synching",
    "invocation": "shell",
    "command": "java --jar /algorithms/code-syncher.codesync-1.jar ${backend-url}
${job-id}",
    "properties": [
      {
        "name": "git-clone-params",
        "value": ""
      },
      {
        "name": "git-pull-params",
        "value": ""
      }
    ],
    "disabled": false,
    "weight": 50,
    "sort": 1,
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,
    "modified": 1542823833,
    "version": 1
  }
  {
    "id": 51115116,
    "type": "analyzer",
    "name": "Analyser-1",
    "slug": "analyzer-1",
    "description": "Default algorithm for local analysis",
    "invocation": "shell",
    "command": "java --jar /algorithms/analyzer.analyzer-1.jar ${backend-url} ${job-
id}",
    "properties": [
      {
        "name": "all-metrics",
        "value": "language, lines-of-code, size-k, total-contributors, commits,
prs"
      },
      {
        "name": "disabled-metrics",
        "value": "none"
      },
      {
        "name": "time-series-metrics",

```

```

    "value": "commits, prs"
  },
  {
    "name": "time-series",
    "value": "1 week, 1 month, 1 year"
  }
],
"disabled": false,
"weight": 50,
"sort": 1,
"tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
"created": 1542823833,
"modified": 1542823833,
"version": 1
},
{
  "id": 51115117,
  "type": "ranker",
  "name": "Ranker-1",
  "slug": "anker-1",
  "description": "Default ranking algorithm",
  "invocation": "shell",
  "command": "java --jar /algorithms/ranker.raanker-1.jar ${backend-url} ${job-id}",
  "properties": [
    {
      "name": "define size",
      "value": "size-k"
    },
    {
      "name": "define contributors",
      "value": "total-contributors"
    },
    {
      "name": "define commit-frequency",
      "value": "commits-in-last-1-week"
    },
    {
      "name": "define pr-frequency",
      "value": "prs-in-last-2-weeks"
    },
    {
      "name": "language-weight",
      "value": "10"
    },
    {
      "name": "size-weight",
      "value": "50"
    },
    {
      "name": "contributors-weight",
      "value": "50"
    }
  ]
}

```

```

    },
    {
      "name": "commit-frequency-weight",
      "value": "50"
    },
    {
      "name": "pr-frequency-weight",
      "value": "90"
    },
    {
      "name": "language-weights",
      "value": "Java: 60, Kotlin: 60, Go: 70, Python: 40"
    }
  ],
  "disabled": false,
  "weight": 50,
  "sort": 1,
  "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
  "created": 1542823833,
  "modified": 1542823833,
  "version": 1
}
]

```

Note:

1. Similarly to the /configs endpoint, despite the children entities (properties) being included with the GET responses, you cannot change them using POST/PUT - because this will only affect the parent object. To make changes to the children, use the **/api/algorithm-properties** endpoint described next.
2. DELETE request will automatically delete algorithm properties, no extra call needed.

/api/algorithm-properties

```
[
  {
    "id": 43616596,
    "name": "language-weight",
    "value": "10"
    "algorithm": {
      ...
    }
  },
  {
    "id": 43616597,
    "name": "size-weight",
    "value": "10"
    "algorithm": {
      ...
    }
  }, {
    "id": 43616598,
    "name": "commit-activity-weight",
    "value": "10"
    "algorithm": {
      ...
    }
  }, {
    "id": 43616599,
    "name": "exchange-activity-weight",
    "value": "50",
    "algorithm": {
    }
  }
]
```

Chapter 4. JOBS

Perform job invocations for Data Sync, Code Sync, Analysis, Ranking, Reports.

To execute various features of the system - Data Sync, Code Sync, Local Analysis, Ranker, Reports - create a job record using /jobs endpoint.

- Create a record of appropriate job type, and status equal to 'created'.
- The API will return the job id.
- The backend will start the job.
- Use job id and **percentdone** to monitor job progress.
- Use **lastheardfrom** to discover and deactivate stale jobs.
- User **refreshed** field to make the job pick up new data - that is, the data inserted into database after the job has started. To do so, update the job record with **refreshed** field set to current time.
- Some fields below show 'null' value. This is for illustration purposes only - in actual response JSON, these fields will be omitted.
- **Total** means how many objects were encountered. **Processed** means how many objects have been successfully processed.

/api/jobs

```
[
  {
    "id": 43615770,
    "type": "data-sync",
    "slug": "20181211015138-data-sync",
    "active": false,
    "status": "completed",
    "message": "Success",
    "processed": 35,
    "total": 35,
    "currentitem": null,
    "percentdone": 100,
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "started": 1542823800,
    "refreshed": 1542823820,
    "finished": 1542823833,
    "lastheardfrom": 1542823833,
    "created": 1542823800,
    "modified": 1542823833,
    "version": 12
  },
  {
    "id": 43615773,
    "jobtype": "code-sync",
```

```

    "slug": "20181211015138-code-sync",
    "active": true,
    "status": "ongoing",
    "message": null,
    "processed": 30,
    "total": 35,
    "currentitem": "Veracode-Innovation-Lab/vc-inlab-cit-backend",
    "percentdone": 80,
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "started": 1542823000,
    "refreshed": 1542823030,
    "finished": null,
    "lastheardfrom": 1542823033,
    "created": 1542823000,
    "modified": 1542823033,
    "version": 10
  },
  {
    "id": 43615791,
    "type": "local-analysis",
    "slug": "20181211015138-local-analysis",
    "active": true,
    "status": "ongoing",
    "message": null,
    "processed": 11,
    "total": 35,
    "currentitem": "Veracode-Innovation-Lab/vc-inlab-cit-frontend",
    "percentdone": 35,
    "started": 1542825000,
    "refreshed": 1542825005,
    "finished": null,
    "lastheardfrom": 1542823224,
    "created": 1542825000,
    "modified": 1542823224,
    "version": 4
  },
  {
    "id": 43615791,
    "type": "ranking",
    "slug": "20181211015138-ranking",
    "active": true,
    "status": "ongoing",
    "message": null,
    "processed": 3,
    "total": 35,
    "percentdone": 10,
    "currentitem": "Veracode-Innovation-Lab/vc-inlab-cit-assembly",
    "started": 1542823220,
    "refreshed": 1542823222,
    "finished": null,
    "lastheardfrom": 1542823224,

```

```

    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823210,
    "modified": 1542823224,
    "version": 2
  },
  {
    "id": 43615791,
    "type": "reporting",
    "slug": "20181211015138-reporting",
    "active": true,
    "status": "ongoing",
    "message": null,
    "processed": 9,
    "total": 10,
    "currentitem": "Veracode-Innovation-Lab/vc-inlab-cit-docs",
    "percentdone": 90,
    "started": 1542823220,
    "refreshed": 1542823223,
    "finished": null,
    "lastheardfrom": 1542823224,
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823210,
    "modified": 1542823224,
    "version": 5
  }
]

```

- The /jobs endpoint accepts sorting and filtering parameters:
- most recent jobs: /api/jobs?sort=id,desc
- most recent jobs of type: /api/jobs?sort=id,desc&type.equals=local-analysis
- most recent jobs of type and status: /api/jobs?sort=id,desc&type.equals=local-analysis&status.equals=completed

Chapter 5. FREE-FORM JSON

Allows for storage and modification of free-form JSON documents. In particular, stores the results of executed jobs (scraping, analysis, rankings, reports). You can also use this endpoint to store anything that does not fit anywhere else in the model.

This endpoint does not use foreign keys - just plain JSONs. That means that anything referred as a sub-object is a snapshot from the point of time when the record was created. In this sense, the records behave similarly to paper documents, i.e. do not change when the underlying objects change.

For example, the content of job sub-object below will not change if/when any changes happen to the original job entity:

/api/records


```
[
  {
    "id": 51115002,
    "type": "code-sync",
    "doc": {
      "id": 51115002,
      "type": "code-sync",
      "counts": [
        {
          "repos": "19",
          "cloned": "1",
          "pulled": "18"
        }
      ],
      "job": {
        "id": 43615791,
        "slug": "20181211015138-code-sync",
        "type": "code-sync",
        "active": false,
        "status": "completed",
        "message": null,
        "processed": 30,
        "total": 35,
        "currentitem": "Veracode-Innovation-Lab/vc-inlab-cit-backend",
        "percentdone": 100,
        "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
        "started": 1542825000,
        "refreshed": 1542823030,
        "finished": 1542823224,
        "lastheardfrom": 1542823224,
        "created": 1542825000,
        "modified": 1542823224,
        "version": 4
      }
    },
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,
    "modified": 1542823833,
    "version": 1
  }
]
```

- Internally, the **doc** field is stored in Postgres JSON-optimized JSOB type column.
- This '**doc**' column is indexed by 'id' and 'id'+ 'type' for fast retrieval.
- Similarly to regular database inserts, you don't need to specify the value for JSON's [doc.id](<http://doc.id>) when creating a record. It will be populated by the back-end upon record creation, similarly to the relational **id** field, and will receive the same value.

Chapter 6. LOCAL ANALYSIS

/api/records?type.equals=local-analysis

```
[
  {
    "id": 51115002,
    "type": "local-analysis",
    "doc": {
      "id": 51115002,
      "type": "local-analysis",
      "sha": "89d3d2ffe5338c56fd317d74a166b62e72129b39",
      "repo": {
        "id": 43615012,
        "ido": 159556743,
        "name": "vc-inlab-cit-backend",
        "fullname": "Veracode-Innovation-Lab/vc-inlab-cit-backend",
        "url": "https://api.github.com/repos/Veracode-Innovation-Lab/vc-inlab-cit-backend",
        "cloneurl": "https://github.com/Veracode-Innovation-Lab/vc-inlab-cit-backend.git",
        "scm": "GitHub",
        "org": {
          "id": 43616527,
          "ido": 43616516,
          "name": "Veracode-Innovation-Lab",
          "order": 1,
          "rank": 90,
          "scm": "GitHub",
          "sort": 1,
          "created": 1542823833,
          "modified": 1542823833,
          "version": 3
        },
        "disabled": false,
        "rank": 80,
        "sort": 1,
        "created": 1542823833,
        "modified": 1542823833,
        "version": 3
      },
      "metrics": [
        {
          "name": "language",
          "value": "Java"
        },
        {
          "name": "size-k",
          "value": 1024
        }
      ]
    }
  }
]
```

```

    {
      "name": "total-contributors",
      "value": 12
    },
    {
      "name": "commits-in-last-1-week",
      "value": 29
    },
    {
      "name": "commits-in-last-2-weeks",
      "value": 29
    },
    {
      "name": "commits-in-last-1-month",
      "value": 90
    },
    {
      "name": "commit-frequency",
      "value": 29.0
    },
    {
      "name": "prs-in-last-1-week",
      "value": 0
    },
    {
      "name": "prs-in-last-2-weeks",
      "value": 7
    },
    {
      "name": "prs-in-last-1-month",
      "value": 18
    },
    {
      "name": "avg-prs-having-at-least-3-comments-in-last-5-days",
      "value": 1
    },
    {
      "name": "avg-prs-having-at-least-3-comments-in-last-30-days",
      "value": 4
    },
    {
      "name": "code-complexity",
      "value": 8
    }
  ],
  "job": {
    "id": 43615791,
    "type": "local-analysis",
    "active": false,
    "status": "completed",
    "percentdone": 100,

```

```

    "started": 1542825000,
    "finished": 1542823224,
    "lastheardfrom": 1542823224,
    "created": 1542825000,
    "modified": 1542823224,
    "version": 4
  },
  "algorithm": {
    "id": 51115116,
    "type": "analyzer",
    "name": "Analyser-1",
    "slug": "analyzer-1",
    "description": "Default algorithm for local analysis",
    "invocation": "shell",
    "command": "java --jar /algorithms/analyzer.analyzer-1.jar ${backend-url}
${job-id}",
    "properties": [
      {
        "name": "all-metrics",
        "value": "language, line-numbers, repo-size-k, commits, prs"
      },
      {
        "name": "disabled-metrics",
        "value": "line-numbers"
      },
      {
        "name": "time-series-metrics",
        "value": "commits, prs"
      },
      {
        "name": "time-series",
        "value": "1 week, 2 weeks, 1 month"
      }
    ],
    "disabled": false,
    "weight": 50,
    "sort": 1,
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
    "created": 1542823833,
    "modified": 1542823833,
    "version": 1
  }
},
"tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",
"created": 1542823833,
"modified": 1542823833,
"version": 1
}
]

```

Chapter 7. RANKER RESULTS

The ranks are stored here, as well as directly written into each Repository entity's "rank" field.

`/api/records?type.equals=ranker-results`

```
[
  {
    "id": 51115002,
    "type": "ranker-results",
    "doc": {
      "id": 51115002,
      "type": "ranker-results",
      "rankings": [
        {
          "repoid": 43615012,
          "algorithmid": 51115117,
          "rank": 80
        },
        {
          "repoid": 43615013,
          "algorithmid": 51115119,
          "rank": 73
        },
        {
          "repoid": 43615014,
          "algorithmid": 51115117,
          "rank": 70
        },
        {
          "repoid": 43615015,
          "algorithmid": 51115119,
          "rank": 65
        },
        {
          "repoid": 43615016,
          "algorithmid": 51115117,
          "rank": 60
        },
        {
          "repoid": 43615017,
          "algorithmid": 51115119,
          "rank": 50
        }
      ]
    },
    "job": {
      "id": 43615791,
      "type": "ranking",

```

```
    "active": false,  
    "status": "completed",  
    "percentdone": 100,  
    "started": 1542823220,  
    "finished": 1542823224,  
    "lastheardfrom": 1542823224  
    "created": 1542823210,  
    "modified": 1542823224,  
    "version": 2  
  },  
  "scm": "GitHub",  
    "tenant": "7f9c84ed-c4cf-48e2-8825-80ef286c18ca",  
    "created": 1542823833,  
    "modified": 1542823833,  
    "version": 1  
}  
]
```

Chapter 8. Resources

8.1. Account-resource

Account Resource

8.1.1. isAuthenticated

GET /api/authenticate

Responses

HTTP Code	Description	Schema
200	OK	string
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.2. Algorithm-property-resource

Algorithm Property Resource

8.2.1. createAlgorithmProperty

POST /api/algorithm-properties

Parameters

Type	Name	Description	Schema
Body	algorithmProperty <i>required</i>	algorithmProperty	AlgorithmProperty

Responses

HTTP Code	Description	Schema
200	OK	AlgorithmProperty
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.2.2. getAllAlgorithmProperties

```
GET /api/algorithm-properties
```

Responses

HTTP Code	Description	Schema
200	OK	< AlgorithmProperty > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.2.3. updateAlgorithmProperty

```
PUT /api/algorithm-properties
```

Parameters

Type	Name	Description	Schema
Body	algorithmProperty <i>required</i>	algorithmProperty	AlgorithmProperty

Responses

HTTP Code	Description	Schema
200	OK	AlgorithmProperty
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.2.4. getAlgorithmProperty

```
GET /api/algorithm-properties/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	AlgorithmProperty
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.2.5. deleteAlgorithmProperty

```
DELETE /api/algorithm-properties/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

• /

8.3. Algorithm-resource

Algorithm Resource

8.3.1. createAlgorithm

```
POST /api/algorithms
```

Parameters

Type	Name	Description	Schema
Body	algorithm <i>required</i>	algorithm	Algorithm

Responses

HTTP Code	Description	Schema
200	OK	Algorithm
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.3.2. getAllAlgorithms

```
GET /api/algorithms
```

Responses

HTTP Code	Description	Schema
200	OK	< Algorithm > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.3.3. updateAlgorithm

```
PUT /api/algorithms
```

Parameters

Type	Name	Description	Schema
Body	algorithm <i>required</i>	algorithm	Algorithm

Responses

HTTP Code	Description	Schema
200	OK	Algorithm
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.3.4. getAlgorithm

```
GET /api/algorithms/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	Algorithm
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.3.5. deleteAlgorithm

```
DELETE /api/algorithms/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

• /

8.4. Config-property-resource

Config Property Resource

8.4.1. createConfigProperty

POST /api/config-properties

Parameters

Type	Name	Description	Schema
Body	configProperty <i>required</i>	configProperty	ConfigProperty

Responses

HTTP Code	Description	Schema
200	OK	ConfigProperty
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.4.2. getAllConfigProperties

GET /api/config-properties

Responses

HTTP Code	Description	Schema
200	OK	< ConfigProperty > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.4.3. updateConfigProperty

PUT /api/config-properties

Parameters

Type	Name	Description	Schema
Body	<code>configProperty</code> <i>required</i>	configProperty	ConfigProperty

Responses

HTTP Code	Description	Schema
200	OK	ConfigProperty
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

HTTP Code	Description	Schema
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.4.4. getConfigProperty

```
GET /api/config-properties/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	ConfigProperty
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.4.5. deleteConfigProperty

```
DELETE /api/config-properties/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

- /

8.5. Config-resource

Config Resource

8.5.1. createConfig

POST /api/configs

Parameters

Type	Name	Description	Schema
Body	config <i>required</i>	config	Config

Responses

HTTP Code	Description	Schema
200	OK	Config
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- /

8.5.2. getAllConfigs

GET /api/configs

Responses

HTTP Code	Description	Schema
200	OK	< Config > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- /

8.5.3. updateConfig

PUT /api/configs

Parameters

Type	Name	Description	Schema
Body	config <i>required</i>	config	Config

Responses

HTTP Code	Description	Schema
200	OK	Config
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- [application/json](#)

Produces

- /

8.5.4. getConfig

GET /api/configs/{id}

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	Config
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.5.5. deleteConfig

DELETE /api/configs/{id}

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

- /

8.6. Job-resource

Job Resource

8.6.1. createJob

POST /api/jobs

Parameters

Type	Name	Description	Schema
Body	job <i>required</i>	job	Job

Responses

HTTP Code	Description	Schema
200	OK	Job
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- /

8.6.2. getAllJobs

GET /api/jobs

Parameters

Type	Name	Description	Schema
Query	active.equals <i>optional</i>		boolean

Type	Name	Description	Schema
Query	active.in <i>optional</i>		< boolean > array(multi)
Query	active.specified <i>optional</i>		boolean
Query	created.equals <i>optional</i>		string (date-time)
Query	created.greaterThanOrEqualTo <i>optional</i>		string (date-time)
Query	created.greaterThan <i>optional</i>		string (date-time)
Query	created.in[0].epochSecond <i>optional</i>		integer (int64)
Query	created.in[0].nano <i>optional</i>		integer (int32)
Query	created.lessThanOrEqualTo <i>optional</i>		string (date-time)
Query	created.lessThan <i>optional</i>		string (date-time)
Query	created.specified <i>optional</i>		boolean
Query	currentitem.contains <i>optional</i>		string
Query	currentitem.equals <i>optional</i>		string
Query	currentitem.in <i>optional</i>		< string > array(multi)
Query	currentitem.specified <i>optional</i>		boolean
Query	finished.equals <i>optional</i>		string (date-time)

Type	Name	Description	Schema
Query	finished.greaterOrEqualThan <i>optional</i>		string (date-time)
Query	finished.greaterThan <i>optional</i>		string (date-time)
Query	finished.in[0].epochSecond <i>optional</i>		integer (int64)
Query	finished.in[0].nano <i>optional</i>		integer (int32)
Query	finished.lessOrEqualThan <i>optional</i>		string (date-time)
Query	finished.lessThan <i>optional</i>		string (date-time)
Query	finished.specified <i>optional</i>		boolean
Query	id.equals <i>optional</i>		integer (int64)
Query	id.greaterOrEqualThan <i>optional</i>		integer (int64)
Query	id.greaterThan <i>optional</i>		integer (int64)
Query	id.in <i>optional</i>		< integer (int64) > array(multi)
Query	id.lessOrEqualThan <i>optional</i>		integer (int64)
Query	id.lessThan <i>optional</i>		integer (int64)
Query	id.specified <i>optional</i>		boolean
Query	lastheardfrom.equals <i>optional</i>		string (date-time)

Type	Name	Description	Schema
Query	lastheardfrom .greaterOrEqualThan <i>optional</i>		string (date-time)
Query	lastheardfrom .greaterThan <i>optional</i>		string (date-time)
Query	lastheardfrom .in[0].epochSecond <i>optional</i>		integer (int64)
Query	lastheardfrom .in[0].nano <i>optional</i>		integer (int32)
Query	lastheardfrom .lessOrEqualThan <i>optional</i>		string (date-time)
Query	lastheardfrom .lessThan <i>optional</i>		string (date-time)
Query	lastheardfrom .specified <i>optional</i>		boolean
Query	message.contains <i>optional</i>		string
Query	message.equals <i>optional</i>		string
Query	message.in <i>optional</i>		< string > array(multi)
Query	message.specified <i>optional</i>		boolean
Query	modified.equals <i>optional</i>		string (date-time)
Query	modified.greaterOrEqualThan <i>optional</i>		string (date-time)
Query	modified.greaterThan <i>optional</i>		string (date-time)

Type	Name	Description	Schema
Query	modified.in[0].epochSecond <i>optional</i>		integer (int64)
Query	modified.in[0].nano <i>optional</i>		integer (int32)
Query	modified.lessOrEqualThan <i>optional</i>		string (date-time)
Query	modified.lessThan <i>optional</i>		string (date-time)
Query	modified.specified <i>optional</i>		boolean
Query	offset <i>optional</i>		integer (int64)
Query	page <i>optional</i>	Page number of the requested page	integer (int32)
Query	pageNumber <i>optional</i>		integer (int32)
Query	pageSize <i>optional</i>		integer (int32)
Query	paged <i>optional</i>		boolean
Query	percentdone.equals <i>optional</i>		integer (int32)
Query	percentdone.greaterOrEqualThan <i>optional</i>		integer (int32)
Query	percentdone.greaterThan <i>optional</i>		integer (int32)
Query	percentdone.in <i>optional</i>		< integer (int32) > array(multi)
Query	percentdone.lessOrEqualThan <i>optional</i>		integer (int32)

Type	Name	Description	Schema
Query	percentdone.lessThan <i>optional</i>		integer (int32)
Query	percentdone.specified <i>optional</i>		boolean
Query	processed.equals <i>optional</i>		integer (int32)
Query	processed.greaterOrEqualThan <i>optional</i>		integer (int32)
Query	processed.greaterThan <i>optional</i>		integer (int32)
Query	processed.in <i>optional</i>		< integer (int32) > array(multi)
Query	processed.lessOrEqualThan <i>optional</i>		integer (int32)
Query	processed.lessThan <i>optional</i>		integer (int32)
Query	processed.specified <i>optional</i>		boolean
Query	refreshed.equals <i>optional</i>		string (date-time)
Query	refreshed.greaterOrEqualThan <i>optional</i>		string (date-time)
Query	refreshed.greaterThan <i>optional</i>		string (date-time)
Query	refreshed.in[0].epochSecond <i>optional</i>		integer (int64)
Query	refreshed.in[0].nano <i>optional</i>		integer (int32)

Type	Name	Description	Schema
Query	refreshed.lessOrEqualThan <i>optional</i>		string (date-time)
Query	refreshed.lessThan <i>optional</i>		string (date-time)
Query	refreshed.specified <i>optional</i>		boolean
Query	size <i>optional</i>	Size of a page	integer (int32)
Query	slug.contains <i>optional</i>		string
Query	slug.equals <i>optional</i>		string
Query	slug.in <i>optional</i>		< string > array(multi)
Query	slug.specified <i>optional</i>		boolean
Query	sort <i>optional</i>	Sorting criteria in the format: property(,asc desc). Default sort order is ascending. Multiple sort criteria are supported.	< string > array(multi)
Query	sort.sorted <i>optional</i>		boolean
Query	sort.unsorted <i>optional</i>		boolean
Query	started.equals <i>optional</i>		string (date-time)
Query	started.greaterOrEqualThan <i>optional</i>		string (date-time)
Query	started.greaterThan <i>optional</i>		string (date-time)
Query	started.in[0].epochSecond <i>optional</i>		integer (int64)
Query	started.in[0].nano <i>optional</i>		integer (int32)
Query	started.lessOrEqualThan <i>optional</i>		string (date-time)

Type	Name	Description	Schema
Query	started.lessThan <i>optional</i>		string (date-time)
Query	started.specified <i>optional</i>		boolean
Query	status.contains <i>optional</i>		string
Query	status.equals <i>optional</i>		string
Query	status.in <i>optional</i>		< string > array(multi)
Query	status.specified <i>optional</i>		boolean
Query	tenant.contains <i>optional</i>		string
Query	tenant.equals <i>optional</i>		string (uuid)
Query	tenant.in <i>optional</i>		< string (uuid) > array(multi)
Query	tenant.specified <i>optional</i>		boolean
Query	total.equals <i>optional</i>		integer (int32)
Query	total.greaterOrEqualThan <i>optional</i>		integer (int32)
Query	total.greaterThan <i>optional</i>		integer (int32)
Query	total.in <i>optional</i>		< integer (int32) > array(multi)
Query	total.lessOrEqualThan <i>optional</i>		integer (int32)
Query	total.lessThan <i>optional</i>		integer (int32)
Query	total.specified <i>optional</i>		boolean

Type	Name	Description	Schema
Query	type.contains <i>optional</i>		string
Query	type.equals <i>optional</i>		string
Query	type.in <i>optional</i>		< string > array(multi)
Query	type.specified <i>optional</i>		boolean
Query	unpaged <i>optional</i>		boolean
Query	version.equals <i>optional</i>		integer (int64)
Query	version.greaterOrEqualThan <i>optional</i>		integer (int64)
Query	version.greaterThan <i>optional</i>		integer (int64)
Query	version.in <i>optional</i>		< integer (int64) > array(multi)
Query	version.lessOrEqualThan <i>optional</i>		integer (int64)
Query	version.lessThan <i>optional</i>		integer (int64)
Query	version.specified <i>optional</i>		boolean

Responses

HTTP Code	Description	Schema
200	OK	< Job > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.6.3. updateJob

PUT /api/jobs

Parameters

Type	Name	Description	Schema
Body	job <i>required</i>	job	Job

Responses

HTTP Code	Description	Schema
200	OK	Job
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- [application/json](#)

Produces

- [/](#)

8.6.4. countJobs

GET /api/jobs/count

Parameters

Type	Name	Schema
Query	active.equals <i>optional</i>	boolean
Query	active.in <i>optional</i>	< boolean > array(multi)
Query	active.specified <i>optional</i>	boolean
Query	created.equals <i>optional</i>	string (date-time)

Type	Name	Schema
Query	created.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	created.greaterThan <i>optional</i>	string (date-time)
Query	created.in[0].epochSecond <i>optional</i>	integer (int64)
Query	created.in[0].nano <i>optional</i>	integer (int32)
Query	created.lessOrEqualThan <i>optional</i>	string (date-time)
Query	created.lessThan <i>optional</i>	string (date-time)
Query	created.specified <i>optional</i>	boolean
Query	currentitem.contains <i>optional</i>	string
Query	currentitem.equals <i>optional</i>	string
Query	currentitem.in <i>optional</i>	< string > array(multi)
Query	currentitem.specified <i>optional</i>	boolean
Query	finished.equals <i>optional</i>	string (date-time)
Query	finished.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	finished.greaterThan <i>optional</i>	string (date-time)
Query	finished.in[0].epochSecond <i>optional</i>	integer (int64)
Query	finished.in[0].nano <i>optional</i>	integer (int32)
Query	finished.lessOrEqualThan <i>optional</i>	string (date-time)
Query	finished.lessThan <i>optional</i>	string (date-time)
Query	finished.specified <i>optional</i>	boolean
Query	id.equals <i>optional</i>	integer (int64)
Query	id.greaterOrEqualThan <i>optional</i>	integer (int64)

Type	Name	Schema
Query	id.greaterThan <i>optional</i>	integer (int64)
Query	id.in <i>optional</i>	< integer (int64) > array(multi)
Query	id.lessOrEqualThan <i>optional</i>	integer (int64)
Query	id.lessThan <i>optional</i>	integer (int64)
Query	id.specified <i>optional</i>	boolean
Query	lastheardfrom.equals <i>optional</i>	string (date-time)
Query	lastheardfrom.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	lastheardfrom.greaterThan <i>optional</i>	string (date-time)
Query	lastheardfrom.in[0].epochSecond <i>optional</i>	integer (int64)
Query	lastheardfrom.in[0].nano <i>optional</i>	integer (int32)
Query	lastheardfrom.lessOrEqualThan <i>optional</i>	string (date-time)
Query	lastheardfrom.lessThan <i>optional</i>	string (date-time)
Query	lastheardfrom.specified <i>optional</i>	boolean
Query	message.contains <i>optional</i>	string
Query	message.equals <i>optional</i>	string
Query	message.in <i>optional</i>	< string > array(multi)
Query	message.specified <i>optional</i>	boolean
Query	modified.equals <i>optional</i>	string (date-time)
Query	modified.greaterOrEqualThan <i>optional</i>	string (date-time)

Type	Name	Schema
Query	modified.greaterThan <i>optional</i>	string (date-time)
Query	modified.in[0].epochSecond <i>optional</i>	integer (int64)
Query	modified.in[0].nano <i>optional</i>	integer (int32)
Query	modified.lessOrEqualThan <i>optional</i>	string (date-time)
Query	modified.lessThan <i>optional</i>	string (date-time)
Query	modified.specified <i>optional</i>	boolean
Query	percentdone.equals <i>optional</i>	integer (int32)
Query	percentdone.greaterOrEqualThan <i>optional</i>	integer (int32)
Query	percentdone.greaterThan <i>optional</i>	integer (int32)
Query	percentdone.in <i>optional</i>	< integer (int32) > array(multi)
Query	percentdone.lessOrEqualThan <i>optional</i>	integer (int32)
Query	percentdone.lessThan <i>optional</i>	integer (int32)
Query	percentdone.specified <i>optional</i>	boolean
Query	processed.equals <i>optional</i>	integer (int32)
Query	processed.greaterOrEqualThan <i>optional</i>	integer (int32)
Query	processed.greaterThan <i>optional</i>	integer (int32)
Query	processed.in <i>optional</i>	< integer (int32) > array(multi)
Query	processed.lessOrEqualThan <i>optional</i>	integer (int32)
Query	processed.lessThan <i>optional</i>	integer (int32)
Query	processed.specified <i>optional</i>	boolean

Type	Name	Schema
Query	refreshed.equals <i>optional</i>	string (date-time)
Query	refreshed.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	refreshed.greaterThan <i>optional</i>	string (date-time)
Query	refreshed.in[0].epochSecond <i>optional</i>	integer (int64)
Query	refreshed.in[0].nano <i>optional</i>	integer (int32)
Query	refreshed.lessOrEqualThan <i>optional</i>	string (date-time)
Query	refreshed.lessThan <i>optional</i>	string (date-time)
Query	refreshed.specified <i>optional</i>	boolean
Query	slug.contains <i>optional</i>	string
Query	slug.equals <i>optional</i>	string
Query	slug.in <i>optional</i>	< string > array(multi)
Query	slug.specified <i>optional</i>	boolean
Query	started.equals <i>optional</i>	string (date-time)
Query	started.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	started.greaterThan <i>optional</i>	string (date-time)
Query	started.in[0].epochSecond <i>optional</i>	integer (int64)
Query	started.in[0].nano <i>optional</i>	integer (int32)
Query	started.lessOrEqualThan <i>optional</i>	string (date-time)
Query	started.lessThan <i>optional</i>	string (date-time)
Query	started.specified <i>optional</i>	boolean

Type	Name	Schema
Query	status.contains <i>optional</i>	string
Query	status.equals <i>optional</i>	string
Query	status.in <i>optional</i>	< string > array(multi)
Query	status.specified <i>optional</i>	boolean
Query	tenant.contains <i>optional</i>	string
Query	tenant.equals <i>optional</i>	string (uuid)
Query	tenant.in <i>optional</i>	< string (uuid) > array(multi)
Query	tenant.specified <i>optional</i>	boolean
Query	total.equals <i>optional</i>	integer (int32)
Query	total.greaterOrEqualThan <i>optional</i>	integer (int32)
Query	total.greaterThan <i>optional</i>	integer (int32)
Query	total.in <i>optional</i>	< integer (int32) > array(multi)
Query	total.lessOrEqualThan <i>optional</i>	integer (int32)
Query	total.lessThan <i>optional</i>	integer (int32)
Query	total.specified <i>optional</i>	boolean
Query	type.contains <i>optional</i>	string
Query	type.equals <i>optional</i>	string
Query	type.in <i>optional</i>	< string > array(multi)
Query	type.specified <i>optional</i>	boolean
Query	version.equals <i>optional</i>	integer (int64)
Query	version.greaterOrEqualThan <i>optional</i>	integer (int64)

Type	Name	Schema
Query	version.greaterThan <i>optional</i>	integer (int64)
Query	version.in <i>optional</i>	< integer (int64) > array(multi)
Query	version.lessOrEqualThan <i>optional</i>	integer (int64)
Query	version.lessThan <i>optional</i>	integer (int64)
Query	version.specified <i>optional</i>	boolean

Responses

HTTP Code	Description	Schema
200	OK	integer (int64)
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.6.5. getJob

```
GET /api/jobs/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	Job
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.6.6. deleteJob

```
DELETE /api/jobs/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

• /

8.7. Org-resource

Org Resource

8.7.1. createOrg

```
POST /api/orgs
```

Parameters

Type	Name	Description	Schema
Body	org <i>required</i>	org	Org

Responses

HTTP Code	Description	Schema
200	OK	Org
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.7.2. getAllOrgs

GET /api/orgs

Responses

HTTP Code	Description	Schema
200	OK	< Org > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.7.3. updateOrg

PUT /api/orgs

Parameters

Type	Name	Description	Schema
Body	org <i>required</i>	org	Org

Responses

HTTP Code	Description	Schema
200	OK	Org
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.7.4. getOrg

```
GET /api/orgs/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	Org
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.7.5. deleteOrg

```
DELETE /api/orgs/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

• /

8.8. Record-resource

Record Resource

8.8.1. createRecord

POST /api/records

Parameters

Type	Name	Description	Schema
Body	record <i>required</i>	record	Record

Responses

HTTP Code	Description	Schema
200	OK	Record
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.8.2. getAllRecords

GET /api/records

Parameters

Type	Name	Schema
Query	created.equals <i>optional</i>	string (date-time)
Query	created.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	created.greaterThan <i>optional</i>	string (date-time)
Query	created.in[0].epochSecond <i>optional</i>	integer (int64)
Query	created.in[0].nano <i>optional</i>	integer (int32)
Query	created.lessOrEqualThan <i>optional</i>	string (date-time)
Query	created.lessThan <i>optional</i>	string (date-time)
Query	created.specified <i>optional</i>	boolean
Query	doc.contains <i>optional</i>	< string > array(multi)
Query	doc.equals.array <i>optional</i>	boolean
Query	doc.equals.bigDecimal <i>optional</i>	boolean
Query	doc.equals.bigInteger <i>optional</i>	boolean
Query	doc.equals.binary <i>optional</i>	boolean
Query	doc.equals.boolean <i>optional</i>	boolean
Query	doc.equals.containerNode <i>optional</i>	boolean

Type	Name	Schema
Query	doc.equals.double <i>optional</i>	boolean
Query	doc.equals.float <i>optional</i>	boolean
Query	doc.equals.floatingPointNumber <i>optional</i>	boolean
Query	doc.equals.int <i>optional</i>	boolean
Query	doc.equals.integerNumber <i>optional</i>	boolean
Query	doc.equals.long <i>optional</i>	boolean
Query	doc.equals.missingNode <i>optional</i>	boolean
Query	doc.equals.nodeType <i>optional</i>	enum (ARRAY, BINARY, BOOLEAN, MISSING, NULL, NUMBER, OBJECT, POJO, STRING)
Query	doc.equals.null <i>optional</i>	boolean
Query	doc.equals.number <i>optional</i>	boolean
Query	doc.equals.object <i>optional</i>	boolean
Query	doc.equals.pojo <i>optional</i>	boolean
Query	doc.equals.short <i>optional</i>	boolean
Query	doc.equals.textual <i>optional</i>	boolean
Query	doc.equals.valueNode <i>optional</i>	boolean
Query	doc.in[0].array <i>optional</i>	boolean
Query	doc.in[0].bigDecimal <i>optional</i>	boolean
Query	doc.in[0].bigInteger <i>optional</i>	boolean
Query	doc.in[0].binary <i>optional</i>	boolean
Query	doc.in[0].boolean <i>optional</i>	boolean

Type	Name	Schema
Query	doc.in[0].containerNode <i>optional</i>	boolean
Query	doc.in[0].double <i>optional</i>	boolean
Query	doc.in[0].float <i>optional</i>	boolean
Query	doc.in[0].floatingPointNumber <i>optional</i>	boolean
Query	doc.in[0].int <i>optional</i>	boolean
Query	doc.in[0].integralNumber <i>optional</i>	boolean
Query	doc.in[0].long <i>optional</i>	boolean
Query	doc.in[0].missingNode <i>optional</i>	boolean
Query	doc.in[0].nodeType <i>optional</i>	enum (ARRAY, BINARY, BOOLEAN, MISSING, NULL, NUMBER, OBJECT, POJO, STRING)
Query	doc.in[0].null <i>optional</i>	boolean
Query	doc.in[0].number <i>optional</i>	boolean
Query	doc.in[0].object <i>optional</i>	boolean
Query	doc.in[0].pojo <i>optional</i>	boolean
Query	doc.in[0].short <i>optional</i>	boolean
Query	doc.in[0].textual <i>optional</i>	boolean
Query	doc.in[0].valueNode <i>optional</i>	boolean
Query	doc.matches[0].key <i>optional</i>	< string > array(multi)
Query	doc.matches[0].left <i>optional</i>	< string > array(multi)
Query	doc.matches[0].right <i>optional</i>	string
Query	doc.matches[0].value <i>optional</i>	string

Type	Name	Schema
Query	doc.specified <i>optional</i>	boolean
Query	id.equals <i>optional</i>	integer (int64)
Query	id.greaterOrEqualThan <i>optional</i>	integer (int64)
Query	id.greaterThan <i>optional</i>	integer (int64)
Query	id.in <i>optional</i>	< integer (int64) > array(multi)
Query	id.lessOrEqualThan <i>optional</i>	integer (int64)
Query	id.lessThan <i>optional</i>	integer (int64)
Query	id.specified <i>optional</i>	boolean
Query	modified.equals <i>optional</i>	string (date-time)
Query	modified.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	modified.greaterThan <i>optional</i>	string (date-time)
Query	modified.in[0].epochSecond <i>optional</i>	integer (int64)
Query	modified.in[0].nano <i>optional</i>	integer (int32)
Query	modified.lessOrEqualThan <i>optional</i>	string (date-time)
Query	modified.lessThan <i>optional</i>	string (date-time)
Query	modified.specified <i>optional</i>	boolean
Query	tenant.contains <i>optional</i>	string
Query	tenant.equals <i>optional</i>	string (uuid)
Query	tenant.in <i>optional</i>	< string (uuid) > array(multi)
Query	tenant.specified <i>optional</i>	boolean

Type	Name	Schema
Query	type.contains <i>optional</i>	string
Query	type.equals <i>optional</i>	string
Query	type.in <i>optional</i>	< string > array(multi)
Query	type.specified <i>optional</i>	boolean
Query	version.equals <i>optional</i>	integer (int64)
Query	version.greaterOrEqualThan <i>optional</i>	integer (int64)
Query	version.greaterThan <i>optional</i>	integer (int64)
Query	version.in <i>optional</i>	< integer (int64) > array(multi)
Query	version.lessOrEqualThan <i>optional</i>	integer (int64)
Query	version.lessThan <i>optional</i>	integer (int64)
Query	version.specified <i>optional</i>	boolean

Responses

HTTP Code	Description	Schema
200	OK	< Record > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.8.3. updateRecord

```
PUT /api/records
```

Parameters

Type	Name	Description	Schema
Body	record <i>required</i>	record	Record

Responses

HTTP Code	Description	Schema
200	OK	Record
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- [application/json](#)

Produces

- [/](#)

8.8.4. countRecords

```
GET /api/records/count
```

Parameters

Type	Name	Schema
Query	created.equals <i>optional</i>	string (date-time)
Query	created.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	created.greaterThan <i>optional</i>	string (date-time)
Query	created.in[0].epochSecond <i>optional</i>	integer (int64)
Query	created.in[0].nano <i>optional</i>	integer (int32)
Query	created.lessOrEqualThan <i>optional</i>	string (date-time)
Query	created.lessThan <i>optional</i>	string (date-time)

Type	Name	Schema
Query	created.specified <i>optional</i>	boolean
Query	doc.contains <i>optional</i>	< string > array(multi)
Query	doc.equals.array <i>optional</i>	boolean
Query	doc.equals.bigDecimal <i>optional</i>	boolean
Query	doc.equals.bigInteger <i>optional</i>	boolean
Query	doc.equals.binary <i>optional</i>	boolean
Query	doc.equals.boolean <i>optional</i>	boolean
Query	doc.equals.containerNode <i>optional</i>	boolean
Query	doc.equals.double <i>optional</i>	boolean
Query	doc.equals.float <i>optional</i>	boolean
Query	doc.equals.floatingPointNumber <i>optional</i>	boolean
Query	doc.equals.int <i>optional</i>	boolean
Query	doc.equals.integralNumber <i>optional</i>	boolean
Query	doc.equals.long <i>optional</i>	boolean
Query	doc.equals.missingNode <i>optional</i>	boolean
Query	doc.equals.nodeType <i>optional</i>	enum (ARRAY, BINARY, BOOLEAN, MISSING, NULL, NUMBER, OBJECT, POJO, STRING)
Query	doc.equals.null <i>optional</i>	boolean
Query	doc.equals.number <i>optional</i>	boolean
Query	doc.equals.object <i>optional</i>	boolean
Query	doc.equals.pojo <i>optional</i>	boolean

Type	Name	Schema
Query	doc.equals.short <i>optional</i>	boolean
Query	doc.equals.textual <i>optional</i>	boolean
Query	doc.equals.valueNode <i>optional</i>	boolean
Query	doc.in[0].array <i>optional</i>	boolean
Query	doc.in[0].bigDecimal <i>optional</i>	boolean
Query	doc.in[0].bigInteger <i>optional</i>	boolean
Query	doc.in[0].binary <i>optional</i>	boolean
Query	doc.in[0].boolean <i>optional</i>	boolean
Query	doc.in[0].containerNode <i>optional</i>	boolean
Query	doc.in[0].double <i>optional</i>	boolean
Query	doc.in[0].float <i>optional</i>	boolean
Query	doc.in[0].floatingPointNumber <i>optional</i>	boolean
Query	doc.in[0].int <i>optional</i>	boolean
Query	doc.in[0].integralNumber <i>optional</i>	boolean
Query	doc.in[0].long <i>optional</i>	boolean
Query	doc.in[0].missingNode <i>optional</i>	boolean
Query	doc.in[0].nodeType <i>optional</i>	enum (ARRAY, BINARY, BOOLEAN, MISSING, NULL, NUMBER, OBJECT, POJO, STRING)
Query	doc.in[0].null <i>optional</i>	boolean
Query	doc.in[0].number <i>optional</i>	boolean
Query	doc.in[0].object <i>optional</i>	boolean

Type	Name	Schema
Query	doc.in[0].pojo <i>optional</i>	boolean
Query	doc.in[0].short <i>optional</i>	boolean
Query	doc.in[0].textual <i>optional</i>	boolean
Query	doc.in[0].valueNode <i>optional</i>	boolean
Query	doc.matches[0].key <i>optional</i>	< string > array(multi)
Query	doc.matches[0].left <i>optional</i>	< string > array(multi)
Query	doc.matches[0].right <i>optional</i>	string
Query	doc.matches[0].value <i>optional</i>	string
Query	doc.specified <i>optional</i>	boolean
Query	id.equals <i>optional</i>	integer (int64)
Query	id.greaterOrEqualThan <i>optional</i>	integer (int64)
Query	id.greaterThan <i>optional</i>	integer (int64)
Query	id.in <i>optional</i>	< integer (int64) > array(multi)
Query	id.lessOrEqualThan <i>optional</i>	integer (int64)
Query	id.lessThan <i>optional</i>	integer (int64)
Query	id.specified <i>optional</i>	boolean
Query	modified.equals <i>optional</i>	string (date-time)
Query	modified.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	modified.greaterThan <i>optional</i>	string (date-time)
Query	modified.in[0].epochSecond <i>optional</i>	integer (int64)

Type	Name	Schema
Query	modified.in[0].nano <i>optional</i>	integer (int32)
Query	modified.lessOrEqualThan <i>optional</i>	string (date-time)
Query	modified.lessThan <i>optional</i>	string (date-time)
Query	modified.specified <i>optional</i>	boolean
Query	tenant.contains <i>optional</i>	string
Query	tenant.equals <i>optional</i>	string (uuid)
Query	tenant.in <i>optional</i>	< string (uuid) > array(multi)
Query	tenant.specified <i>optional</i>	boolean
Query	type.contains <i>optional</i>	string
Query	type.equals <i>optional</i>	string
Query	type.in <i>optional</i>	< string > array(multi)
Query	type.specified <i>optional</i>	boolean
Query	version.equals <i>optional</i>	integer (int64)
Query	version.greaterOrEqualThan <i>optional</i>	integer (int64)
Query	version.greaterThan <i>optional</i>	integer (int64)
Query	version.in <i>optional</i>	< integer (int64) > array(multi)
Query	version.lessOrEqualThan <i>optional</i>	integer (int64)
Query	version.lessThan <i>optional</i>	integer (int64)
Query	version.specified <i>optional</i>	boolean

Responses

HTTP Code	Description	Schema
200	OK	integer (int64)
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.8.5. getRecord

```
GET /api/records/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	Record
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.8.6. deleteRecord

```
DELETE /api/records/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

- /

8.9. Repo-resource

Repo Resource

8.9.1. createRepo

POST /api/repos

Parameters

Type	Name	Description	Schema
Body	repo <i>required</i>	repo	Repo

Responses

HTTP Code	Description	Schema
200	OK	Repo
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- [application/json](#)

Produces

- /

8.9.2. getAllRepos

GET /api/repos

Parameters

Type	Name	Schema
Query	cloneurl.contains <i>optional</i>	string
Query	cloneurl.equals <i>optional</i>	string
Query	cloneurl.in <i>optional</i>	< string > array(multi)
Query	cloneurl.specified <i>optional</i>	boolean
Query	created.equals <i>optional</i>	string (date-time)
Query	created.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	created.greaterThan <i>optional</i>	string (date-time)
Query	created.in[0].epochSecond <i>optional</i>	integer (int64)
Query	created.in[0].nano <i>optional</i>	integer (int32)
Query	created.lessOrEqualThan <i>optional</i>	string (date-time)
Query	created.lessThan <i>optional</i>	string (date-time)
Query	created.specified <i>optional</i>	boolean
Query	disabled.equals <i>optional</i>	boolean
Query	disabled.in <i>optional</i>	< boolean > array(multi)
Query	disabled.specified <i>optional</i>	boolean
Query	fullname.contains <i>optional</i>	string
Query	fullname.equals <i>optional</i>	string
Query	fullname.in <i>optional</i>	< string > array(multi)

Type	Name	Schema
Query	fullname.specified <i>optional</i>	boolean
Query	id.equals <i>optional</i>	integer (int64)
Query	id.greaterOrEqualThan <i>optional</i>	integer (int64)
Query	id.greaterThan <i>optional</i>	integer (int64)
Query	id.in <i>optional</i>	< integer (int64) > array(multi)
Query	id.lessOrEqualThan <i>optional</i>	integer (int64)
Query	id.lessThan <i>optional</i>	integer (int64)
Query	id.specified <i>optional</i>	boolean
Query	ido.equals <i>optional</i>	integer (int64)
Query	ido.greaterOrEqualThan <i>optional</i>	integer (int64)
Query	ido.greaterThan <i>optional</i>	integer (int64)
Query	ido.in <i>optional</i>	< integer (int64) > array(multi)
Query	ido.lessOrEqualThan <i>optional</i>	integer (int64)
Query	ido.lessThan <i>optional</i>	integer (int64)
Query	ido.specified <i>optional</i>	boolean
Query	modified.equals <i>optional</i>	string (date-time)
Query	modified.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	modified.greaterThan <i>optional</i>	string (date-time)
Query	modified.in[0].epochSecond <i>optional</i>	integer (int64)
Query	modified.in[0].nano <i>optional</i>	integer (int32)

Type	Name	Schema
Query	modified.lessOrEqualThan <i>optional</i>	string (date-time)
Query	modified.lessThan <i>optional</i>	string (date-time)
Query	modified.specified <i>optional</i>	boolean
Query	name.contains <i>optional</i>	string
Query	name.equals <i>optional</i>	string
Query	name.in <i>optional</i>	< string > array(multi)
Query	name.specified <i>optional</i>	boolean
Query	rank.equals <i>optional</i>	integer (int32)
Query	rank.greaterOrEqualThan <i>optional</i>	integer (int32)
Query	rank.greaterThan <i>optional</i>	integer (int32)
Query	rank.in <i>optional</i>	< integer (int32) > array(multi)
Query	rank.lessOrEqualThan <i>optional</i>	integer (int32)
Query	rank.lessThan <i>optional</i>	integer (int32)
Query	rank.specified <i>optional</i>	boolean
Query	scm.contains <i>optional</i>	string
Query	scm.equals <i>optional</i>	string
Query	scm.in <i>optional</i>	< string > array(multi)
Query	scm.specified <i>optional</i>	boolean
Query	sortid.equals <i>optional</i>	integer (int32)
Query	sortid.greaterOrEqualThan <i>optional</i>	integer (int32)
Query	sortid.greaterThan <i>optional</i>	integer (int32)

Type	Name	Schema
Query	sortid.in <i>optional</i>	< integer (int32) > array(multi)
Query	sortid.lessOrEqualThan <i>optional</i>	integer (int32)
Query	sortid.lessThan <i>optional</i>	integer (int32)
Query	sortid.specified <i>optional</i>	boolean
Query	url.contains <i>optional</i>	string
Query	url.equals <i>optional</i>	string
Query	url.in <i>optional</i>	< string > array(multi)
Query	url.specified <i>optional</i>	boolean
Query	version.equals <i>optional</i>	integer (int64)
Query	version.greaterOrEqualThan <i>optional</i>	integer (int64)
Query	version.greaterThan <i>optional</i>	integer (int64)
Query	version.in <i>optional</i>	< integer (int64) > array(multi)
Query	version.lessOrEqualThan <i>optional</i>	integer (int64)
Query	version.lessThan <i>optional</i>	integer (int64)
Query	version.specified <i>optional</i>	boolean

Responses

HTTP Code	Description	Schema
200	OK	< Repo > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.9.3. updateRepo

PUT /api/repos

Parameters

Type	Name	Description	Schema
Body	repo <i>required</i>	repo	Repo

Responses

HTTP Code	Description	Schema
200	OK	Repo
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.9.4. countRepos

GET /api/repos/count

Parameters

Type	Name	Schema
Query	cloneurl.contains <i>optional</i>	string
Query	cloneurl.equals <i>optional</i>	string
Query	cloneurl.in <i>optional</i>	< string > array(multi)
Query	cloneurl.specified <i>optional</i>	boolean

Type	Name	Schema
Query	created.equals <i>optional</i>	string (date-time)
Query	created.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	created.greaterThan <i>optional</i>	string (date-time)
Query	created.in[0].epochSecond <i>optional</i>	integer (int64)
Query	created.in[0].nano <i>optional</i>	integer (int32)
Query	created.lessOrEqualThan <i>optional</i>	string (date-time)
Query	created.lessThan <i>optional</i>	string (date-time)
Query	created.specified <i>optional</i>	boolean
Query	disabled.equals <i>optional</i>	boolean
Query	disabled.in <i>optional</i>	< boolean > array(multi)
Query	disabled.specified <i>optional</i>	boolean
Query	fullname.contains <i>optional</i>	string
Query	fullname.equals <i>optional</i>	string
Query	fullname.in <i>optional</i>	< string > array(multi)
Query	fullname.specified <i>optional</i>	boolean
Query	id.equals <i>optional</i>	integer (int64)
Query	id.greaterOrEqualThan <i>optional</i>	integer (int64)
Query	id.greaterThan <i>optional</i>	integer (int64)
Query	id.in <i>optional</i>	< integer (int64) > array(multi)
Query	id.lessOrEqualThan <i>optional</i>	integer (int64)
Query	id.lessThan <i>optional</i>	integer (int64)

Type	Name	Schema
Query	id.specified <i>optional</i>	boolean
Query	ido.equals <i>optional</i>	integer (int64)
Query	ido.greaterOrEqualThan <i>optional</i>	integer (int64)
Query	ido.greaterThan <i>optional</i>	integer (int64)
Query	ido.in <i>optional</i>	< integer (int64) > array(multi)
Query	ido.lessOrEqualThan <i>optional</i>	integer (int64)
Query	ido.lessThan <i>optional</i>	integer (int64)
Query	ido.specified <i>optional</i>	boolean
Query	modified.equals <i>optional</i>	string (date-time)
Query	modified.greaterOrEqualThan <i>optional</i>	string (date-time)
Query	modified.greaterThan <i>optional</i>	string (date-time)
Query	modified.in[0].epochSecond <i>optional</i>	integer (int64)
Query	modified.in[0].nano <i>optional</i>	integer (int32)
Query	modified.lessOrEqualThan <i>optional</i>	string (date-time)
Query	modified.lessThan <i>optional</i>	string (date-time)
Query	modified.specified <i>optional</i>	boolean
Query	name.contains <i>optional</i>	string
Query	name.equals <i>optional</i>	string
Query	name.in <i>optional</i>	< string > array(multi)
Query	name.specified <i>optional</i>	boolean

Type	Name	Schema
Query	rank.equals <i>optional</i>	integer (int32)
Query	rank.greaterOrEqualThan <i>optional</i>	integer (int32)
Query	rank.greaterThan <i>optional</i>	integer (int32)
Query	rank.in <i>optional</i>	< integer (int32) > array(multi)
Query	rank.lessOrEqualThan <i>optional</i>	integer (int32)
Query	rank.lessThan <i>optional</i>	integer (int32)
Query	rank.specified <i>optional</i>	boolean
Query	scm.contains <i>optional</i>	string
Query	scm.equals <i>optional</i>	string
Query	scm.in <i>optional</i>	< string > array(multi)
Query	scm.specified <i>optional</i>	boolean
Query	sortid.equals <i>optional</i>	integer (int32)
Query	sortid.greaterOrEqualThan <i>optional</i>	integer (int32)
Query	sortid.greaterThan <i>optional</i>	integer (int32)
Query	sortid.in <i>optional</i>	< integer (int32) > array(multi)
Query	sortid.lessOrEqualThan <i>optional</i>	integer (int32)
Query	sortid.lessThan <i>optional</i>	integer (int32)
Query	sortid.specified <i>optional</i>	boolean
Query	url.contains <i>optional</i>	string
Query	url.equals <i>optional</i>	string
Query	url.in <i>optional</i>	< string > array(multi)

Type	Name	Schema
Query	url.specified <i>optional</i>	boolean
Query	version.equals <i>optional</i>	integer (int64)
Query	version.greaterOrEqualThan <i>optional</i>	integer (int64)
Query	version.greaterThan <i>optional</i>	integer (int64)
Query	version.in <i>optional</i>	< integer (int64) > array(multi)
Query	version.lessOrEqualThan <i>optional</i>	integer (int64)
Query	version.lessThan <i>optional</i>	integer (int64)
Query	version.specified <i>optional</i>	boolean

Responses

HTTP Code	Description	Schema
200	OK	integer (int64)
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.9.5. getRepo

```
GET /api/repos/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	Repo
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.9.6. deleteRepo

```
DELETE /api/repos/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

• /

8.10. Scm-resource

Scm Resource

8.10.1. createScm

```
POST /api/scms
```

Parameters

Type	Name	Description	Schema
Body	scm <i>required</i>	scm	Scm

Responses

HTTP Code	Description	Schema
200	OK	Scm
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- [application/json](#)

Produces

- [/](#)

8.10.2. getAllScms

```
GET /api/scms
```

Responses

HTTP Code	Description	Schema
200	OK	< Scm > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- [/](#)

8.10.3. updateScm

```
PUT /api/scms
```

Parameters

Type	Name	Description	Schema
Body	scm <i>required</i>	scm	Scm

Responses

HTTP Code	Description	Schema
200	OK	Scm
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- [application/json](#)

Produces

- [/](#)

8.10.4. getScm

```
GET /api/scms/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	Scm
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

• /

8.10.5. deleteScm

```
DELETE /api/scms/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

• /

8.11. Tag-resource

Tag Resource

8.11.1. createTag

```
POST /api/tags
```

Parameters

Type	Name	Description	Schema
Body	tag <i>required</i>	tag	Tag

Responses

HTTP Code	Description	Schema
200	OK	Tag
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.11.2. getAllTags

GET /api/tags

Responses

HTTP Code	Description	Schema
200	OK	< Tag > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.11.3. updateTag

PUT /api/tags

Parameters

Type	Name	Description	Schema
Body	tag <i>required</i>	tag	Tag

Responses

HTTP Code	Description	Schema
200	OK	Tag
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.11.4. getTag

```
GET /api/tags/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	Tag
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.11.5. deleteTag

```
DELETE /api/tags/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

• /

8.12. Team-resource

Team Resource

8.12.1. createTeam

POST /api/teams

Parameters

Type	Name	Description	Schema
Body	team <i>required</i>	team	Team

Responses

HTTP Code	Description	Schema
200	OK	Team
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.12.2. getAllTeams

GET /api/teams

Responses

HTTP Code	Description	Schema
200	OK	< Team > array
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.12.3. updateTeam

PUT /api/teams

Parameters

Type	Name	Description	Schema
Body	team <i>required</i>	team	Team

Responses

HTTP Code	Description	Schema
200	OK	Team
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- `/`

8.12.4. getTeam

```
GET /api/teams/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	Team
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Produces

- `/`

8.12.5. deleteTeam

```
DELETE /api/teams/{id}
```

Parameters

Type	Name	Description	Schema
Path	id <i>required</i>	id	integer (int64)

Responses

HTTP Code	Description	Schema
200	OK	No Content

HTTP Code	Description	Schema
204	No Content	No Content
401	Unauthorized	No Content
403	Forbidden	No Content

Produces

- /

8.13. User-jwt-controller

User JWT Controller

8.13.1. authorize

POST /api/authenticate

Parameters

Type	Name	Description	Schema
Body	loginVM <i>required</i>	loginVM	LoginVM

Responses

HTTP Code	Description	Schema
200	OK	JWTToken
201	Created	No Content
401	Unauthorized	No Content
403	Forbidden	No Content
404	Not Found	No Content

Consumes

- `application/json`

Produces

- /

Chapter 9. Definitions

9.1. Algorithm

Algorithm for syncing, analysis, ranking, etc. Algorithms run as part of scheduled jobs.

Name	Description	Schema
command <i>optional</i>	Shell command to invoke the algorithm (for 'shell' invocations) Length : 1 - 250	string
created <i>optional</i>	Created date	string (date-time)
description <i>optional</i>	Algorithm description Length : 0 - 500	string
disabled <i>optional</i>	Is disabled?	boolean
id <i>optional</i>	Database id	integer (int64)
invocation <i>optional</i>	Algorithm invocation mechanism, such as 'internal', 'shell', 'url' Pattern : "(internal shell rest url)"	string
modified <i>optional</i>	Modified date	string (date-time)
name <i>optional</i>	Algorithm name, such as 'Assetsync-1' Length : 1 - 100	string
properties <i>optional</i>	Algorithm's configuration properties	< AlgorithmProperty > array
slug <i>optional</i>	Whitespace-less algorithm name, for creation of filesystem directories Length : 1 - 100 Pattern : "[a-zA-Z0-9_-]*"	string
sort <i>optional</i>	Sort order	integer (int32)
tenant <i>optional</i>	Tenant id	string (uuid)
type <i>optional</i>	Algorithm type, such as 'asset-syncher', 'metric-syncher', 'code-syncher', 'analyzer', 'ranker', and the like Length : 1 - 50	string
version <i>optional</i>	Record version	integer (int64)
weight <i>optional</i>	Weight [0-100]	integer (int32)

9.2. AlgorithmProperty

Configurable property for Algorithm entity

Name	Description	Schema
algorithm <i>optional</i>	Parent object	Algorithm
id <i>optional</i>	Database id	integer (int64)
name <i>optional</i>	Property name Length : 1 - 100	string
value <i>optional</i>	Property value	string

9.3. Config

User-facing configuration such as App Config, Veracode API Config, Reports Config and the like

Name	Description	Schema
created <i>optional</i>	Created date	string (date-time)
id <i>optional</i>	Database id	integer (int64)
modified <i>optional</i>	Modified date	string (date-time)
properties <i>optional</i>	Config properties	< ConfigProperty > array
tenant <i>optional</i>	Tenant id	string (uuid)
type <i>optional</i>	Config type, such as 'app-config', 'veracode-api-config', 'ranker-config', 'reports-config' Length : 1 - 50	string
version <i>optional</i>	Record version	integer (int64)

9.4. ConfigProperty

Configurable property for Config entity

Name	Description	Schema
config <i>optional</i>	Parent object	Config
id <i>optional</i>	Database id	integer (int64)

Name	Description	Schema
name <i>optional</i>	Property name Length : 1 - 100	string
value <i>optional</i>	Property value	string

9.5. JWTToken

Name	Schema
id_token <i>optional</i>	string

9.6. Job

Asynchronous job such as Data Sync, Code Sync, Analysis, Ranking, Reports. Runs (possibly multiple) Algorithms of corresponding type, such as 'asset-syncher', 'code-syncher', 'analyzer', 'ranker', etc.

Name	Description	Schema
active <i>optional</i>	Is job currently running?	boolean
created <i>optional</i>	Created date	string (date-time)
currentitem <i>optional</i>	The name of currently processed item, e.g. repo name Length : 1 - 500	string
finished <i>optional</i>	Is job finished?	string (date-time)
id <i>optional</i>	Database id	integer (int64)
lastheardfrom <i>optional</i>	The most recent time the job updated this record with its progress	string (date-time)
message <i>optional</i>	Diagnostic messages Length : 0 - 1000	string
modified <i>optional</i>	Modified date	string (date-time)
percentdone <i>optional</i>	Percent done, to monitor job progress, [0-100]	integer (int32)
processed <i>optional</i>	The number of items already been processed	integer (int32)
refreshed <i>optional</i>	Refreshed date	string (date-time)

Name	Description	Schema
slug <i>optional</i>	Timestamp+job type, to create job dir. Example: '20181229214156.data-sync' Length : 1 - 500 Pattern : "[0-9]{14}.[a-zA-Z0-9_-]+"	string
started <i>optional</i>	Started date	string (date-time)
status <i>optional</i>	Job status: one of 'created', 'ongoing', 'completed', 'failed', 'abandoned' Length : 1 - 50	string
tenant <i>optional</i>	Tenant id	string (uuid)
total <i>optional</i>	Total number of items to process	integer (int32)
type <i>optional</i>	Job type, such as 'data-sync', 'code-sync', 'local-analysis', 'ranking', 'reporting' Length : 1 - 50	string
version <i>optional</i>	Record version	integer (int64)

9.7. JsonNode

Name	Schema
array <i>optional</i>	boolean
bigDecimal <i>optional</i>	boolean
bigInteger <i>optional</i>	boolean
binary <i>optional</i>	boolean
boolean <i>optional</i>	boolean
containerNode <i>optional</i>	boolean
double <i>optional</i>	boolean
float <i>optional</i>	boolean
floatingPointNumber <i>optional</i>	boolean
int <i>optional</i>	boolean

Name	Schema
integralNumber <i>optional</i>	boolean
long <i>optional</i>	boolean
missingNode <i>optional</i>	boolean
nodeType <i>optional</i>	enum (ARRAY, BINARY, BOOLEAN, MISSING, NULL, NUMBER, OBJECT, POJO, STRING)
null <i>optional</i>	boolean
number <i>optional</i>	boolean
object <i>optional</i>	boolean
pojo <i>optional</i>	boolean
short <i>optional</i>	boolean
textual <i>optional</i>	boolean
valueNode <i>optional</i>	boolean

9.8. LoginVM

Username/password for use with /api/authenticate

Name	Description	Schema
password <i>optional</i>	Password Length : 4 - 100	string
rememberMe <i>optional</i>	Remember me?	boolean
username <i>optional</i>	Username/login Length : 1 - 50	string

9.9. Org

Source code repository Org

Name	Description	Schema
created <i>optional</i>	Created date	string (date-time)

Name	Description	Schema
disabled <i>optional</i>	Is disabled?	boolean
id <i>optional</i>	Database id	integer (int64)
ido <i>optional</i>	Original (external) id	integer (int64)
modified <i>optional</i>	Modified date	string (date-time)
name <i>optional</i>	Org's name Length : 1 - 255	string
rank <i>optional</i>	Rank [0-100]	integer (int32)
scm <i>optional</i>	SCM type Length : 1 - 50	string
sort <i>optional</i>	Sort order	integer (int32)
teams <i>optional</i>	Org's teams	< Team > array
url <i>optional</i>	Org URL Length : 1 - 500	string
version <i>optional</i>	Record version	integer (int64)

9.10. Record

Free-form JSON such as results of executed jobs (scraping, analysis, rankings, reports)

Name	Description	Schema
created <i>optional</i>	Created date	string (date-time)
doc <i>optional</i>	Free-form JSON document. Indexed by 'id' and 'id'+ 'type' for fast retrieval. You don't need to specify the value for JSON's doc.id when creating a record. It will be populated by the back-end upon record creation, similarly to the relational id field, and will receive the same value.	JsonNode
id <i>optional</i>	Database id	integer (int64)
modified <i>optional</i>	Modified date	string (date-time)
tenant <i>optional</i>	Tenant id	string (uuid)
type <i>optional</i>	Record type such as 'local-analysis', 'ranker-results' Length : 1 - 50	string

Name	Description	Schema
version <i>optional</i>	Record version	integer (int64)

9.11. Repo

Source Code Repository as exists at one of SCMs (GitHub, GitLab, BitBucket)

Name	Description	Schema
cloneurl <i>optional</i>	Repo's clone URL Length : 1 - 500	string
created <i>optional</i>	Created date	string (date-time)
disabled <i>optional</i>	Is disabled?	boolean
fullname <i>optional</i>	Repo's full name, in the form of org/name Length : 1 - 255	string
id <i>optional</i>	Database id	integer (int64)
ido <i>optional</i>	Original (external) id	integer (int64)
modified <i>optional</i>	Modified date	string (date-time)
name <i>optional</i>	Repo name Length : 1 - 255	string
org <i>optional</i>	Repos's parent org	Org
rank <i>optional</i>	Rank [0-100]	integer (int32)
scm <i>optional</i>	SCM type Length : 1 - 50	string
sortid <i>optional</i>	Sort order	integer (int32)
tags <i>optional</i>	Repos's tags	< Tag > array
url <i>optional</i>	Repo's original URL at SCM Length : 1 - 500	string
version <i>optional</i>	Record version	integer (int64)

9.12. Scm

Source Code Management System, such as GitHub, GitLab, BitBucket

Name	Description	Schema
checked <i>optional</i>	Is checked?	boolean
created <i>optional</i>	Created date	string (date-time)
disabled <i>optional</i>	Is disabled?	boolean
id <i>optional</i>	Database id	integer (int64)
modified <i>optional</i>	Modified date	string (date-time)
name <i>optional</i>	User-editable SCM name, e.g. 'GitHub - MyCompany' Length : 1 - 50	string
sort <i>optional</i>	Sort order	integer (int32)
token <i>optional</i>	Personal access token, for API access Length : 1 - 255	string
type <i>optional</i>	SCM type; a fixed field e.g. 'GitHub', 'GitHubEnterprise'. This value is used by Org, Team and Repo collections for referensing this SCM Length : 1 - 50	string
url <i>optional</i>	The URL for accessing your SCM Length : 1 - 500	string
version <i>optional</i>	Record version	integer (int64)

9.13. Tag

Provides app and geo tagging

Name	Description	Schema
created <i>optional</i>	Created date	string (date-time)
disabled <i>optional</i>	Is disabled?	boolean
id <i>optional</i>	Database id	integer (int64)
modified <i>optional</i>	Modified date	string (date-time)
name <i>optional</i>	Tag name Length : 1 - 100	string
rank <i>optional</i>	Rank [0-100]	integer (int32)

Name	Description	Schema
sort <i>optional</i>	Sort order	integer (int32)
type <i>optional</i>	Tag type Length : 1 - 50 Pattern : "app geo"	string
version <i>optional</i>	Record version	integer (int64)
weight <i>optional</i>	Weight, for ranking	integer (int32)

9.14. Team

Source code repository Team

Name	Description	Schema
created <i>optional</i>	Created date	string (date-time)
disabled <i>optional</i>	Is disabled?	boolean
id <i>optional</i>	Database id	integer (int64)
ido <i>optional</i>	Original (external) id	integer (int64)
membercount <i>optional</i>	Member count	integer (int32)
modified <i>optional</i>	Modified date	string (date-time)
name <i>optional</i>	Team's name Length : 1 - 255	string
org <i>optional</i>	Team's parent org	Org
rank <i>optional</i>	Rank [0-100]	integer (int32)
repocount <i>optional</i>	Repo count	integer (int32)
scm <i>optional</i>	SCM type Length : 1 - 50	string
slug <i>optional</i>	Team slug (name with whitespaces replaced by '-') Length : 1 - 255	string
sort <i>optional</i>	Sort order	integer (int32)
url <i>optional</i>	Team's original URL at SCM Length : 1 - 500	string

Name	Description	Schema
version <i>optional</i>	Record version	integer (int64)