**API Technical Specification document for Jira**

**Objective**

The objective of this document is to add new features or append the existing one in the Technical Specification document which helps in efficient Testing of Jira API’s

1. **Search for all issues (Bug, New feature,Improvement , task etc) in a Project Using JQL (Jira Query language)**

| **API Type** | REST |
| --- | --- |
| **HTTP METHOD** | GET |
| **Authorization** | Basic Authorization (User name and User Key) |
| **Params** | Key –JQL ,Value- project=”RA” |
| **Headers** | NA |
| **End Point** | https://api-may2020.atlassian.net/rest/api/2/search?jql=project=”{{projectName}}”  <https://api-may2020.atlassian.net/rest/api/2/search?jql=project=>” RA” |
| **Request Body(Sample)** | NA |
| **Response Body**  **(Sample)** | Response is too large (Please refer the same from Postman) |
| **Response Codes** | 200 🡪 If data retuned successfully  400🡪Returned if the JQL query is invalid.  401🡪 Returned if the authentication credentials are incorrect or missing. |

1. **List all issue Types (say Bug,New feature ,Improvement ,task ,sub task etc..) in Jira**

| **API Type** | REST |
| --- | --- |
| **HTTP METHOD** | GET |
| **Authorization** | Basic Authorization (User name and User Key) |
| **Params** | NA |
| **Headers** | NA |
| **End Point** | https://api-may2020.atlassian.net/rest/api/2/issuetype |
| **Request Body(Sample)** | NA |
| **Response Body**  **(Sample)** | [      {          "self": "https://api-may2020.atlassian.net/rest/api/2/issuetype/10004",          "id": "10004",          "description": "A new feature of the product, which has yet to be developed.",          "iconUrl": "https://api-may2020.atlassian.net/secure/viewavatar?size=medium&avatarId=10311&avatarType=issuetype",          "name": "New Feature",          "subtask": false,          "avatarId": 10311      },      {          "self": "https://api-may2020.atlassian.net/rest/api/2/issuetype/10001",          "id": "10001",          "description": "An improvement or enhancement to an existing feature or task.",          "iconUrl": "https://api-may2020.atlassian.net/secure/viewavatar?size=medium&avatarId=10310&avatarType=issuetype",          "name": "Improvement",          "subtask": false,          "avatarId": 10310      }  ] |
| **Response Codes** | 200 🡪 If data retuned successfully  401🡪 Returned if the authentication credentials are incorrect or missing. |

1. **List the specific issue with the ID (from the above request id for New feature is 10004 , searching with issue type ID )**

| **API Type** | REST |
| --- | --- |
| **HTTP METHOD** | GET |
| **Authorization** | Basic Authorization (User name and User Key) |
| **Params** | NA |
| **Headers** | NA |
| **End Point** | [https://api-may2020.atlassian.net/rest/api/2/issue/{id}](https://api-may2020.atlassian.net/rest/api/2/issue/%7bid%7d)  <https://api-may2020.atlassian.net/rest/api/2/issue/10004> |
| **Request Body(Sample)** | NA |
| **Response Body**  **(Sample)** | {      "self": "https://api-may2020.atlassian.net/rest/api/2/issue/10004",      "id": "10004",      "description": "A new feature of the product, which has yet to be developed.",      "iconUrl": "https://api-may2020.atlassian.net/secure/viewavatar?size=medium&avatarId=10311&avatarType=issuetype",      "name": "New Feature",      "subtask": false,      "avatarId": 10311  } |
| **Response Codes** | 200 🡪 If data retuned successfully  400🡪Returned if the issue type ID is invalid.  401🡪 Returned if the authentication credentials are incorrect or missing.  404🡪Returned if the issue type or property is not found or the user does not  have the required permissions. |

1. **Create an Issue in Jira (user can create issue types like Bug ,task, Sub task etc.) by entering the issue type in name say 🡪** "name": "Bug",**in the request**

| **API Type** | REST |
| --- | --- |
| **HTTP METHOD** | POST |
| **Authorization** | Basic Authorization (User name and User Key) |
| **Params** | NA |
| **Headers** | NA |
| **End Point** | https://api-may2020.atlassian.net/rest/api/2/issue/ |
| **Request Body(Sample)** | {      "fields": {      "project":                  {                      "key": "RA"                  },      "summary": "create issue in RA project",      "description": "Creating of an issue using project keys and issue type names using the REST API",      "issuetype": {                      "name": "Bug"                  }      }  } |
| **Response Body**  **(Sample)** | {      "id": "10744",      "key": "RA-745",      "self": "https://api-may2020.atlassian.net/rest/api/2/issue/10744"  } |
| **Response Codes** | 201 🡪 Returned if the request is successful.  400🡪 Returned if the request:   * is missing required fields. * contains invalid field values. * contains fields that cannot be set for the issue type. * is by a user who does not have the necessary permission. * is to create a subtype in a project different that of the the parent issue. * is for a subtask when the option to create subtasks is disabled. * is invalid for any other reason.   401 🡪 Returned if the authentication credentials are incorrect or missing.  403🡪 Returned if the user does not have the necessary permission. |

1. **Search Issue Based on the Issue ID or Key (Issue ID or Key will be Present in the response while creating an Issue)**

| **API Type** | REST |
| --- | --- |
| **HTTP METHOD** | GET |
| **Authorization** | Basic Authorization (User name and User Key) |
| **Params** | NA |
| **Headers** | NA |
| **End Point** | [https://api-may2020.atlassian.net/rest/api/2/issue/{issueidOrKey}](https://api-may2020.atlassian.net/rest/api/2/issue/%7bissueidOrKey%7d)  <https://api-may2020.atlassian.net/rest/api/2/issue/10843>  [https://api-may2020.atlassian.net/rest/api/2/issue/RA-32](https://api-mar2020.atlassian.net/rest/api/2/issue/RA-32) |
| **Request Body(Sample)** | NA |
| **Response Body**  **(Sample)** | {      "expand": "renderedFields,names,schema,operations,editmeta,changelog,versionedRepresentations",      "id": "10843",      "self": "https://api-may2020.atlassian.net/rest/api/2/issue/10843",      "key": "RA-32",      "fields": {          "statuscategorychangedate": "2020-05-11T11:12:10.603+0530",          "issuetype": {              "self": "https://api-may2020.atlassian.net/rest/api/2/issuetype/10005",              "id": "10005",              "description": "A problem or error.",              "iconUrl": "https://api-may2020.atlassian.net/secure/viewavatar?size=medium&avatarId=10303&avatarType=issuetype",              "name": "Bug",              "subtask": false,              "avatarId": 10303          },          "timespent": null,          "project": {              "self": "https://api-may2020.atlassian.net/rest/api/2/project/10001",              "id": "10001",              "key": "RA",              "name": "MAY",              "projectTypeKey": "software",              "simplified": false,              "avatarUrls": {                  "48x48": "https://api-may2020.atlassian.net/secure/projectavatar?pid=10001&avatarId=10410",                  "24x24": "https://api-may2020.atlassian.net/secure/projectavatar?size=small&s=small&pid=10001&avatarId=10410",                  "16x16": "https://api-may2020.atlassian.net/secure/projectavatar?size=xsmall&s=xsmall&pid=10001&avatarId=10410",                  "32x32": "https://api-may2020.atlassian.net/secure/projectavatar?size=medium&s=medium&pid=10001&avatarId=10410"              }          },          "fixVersions": [],          "aggregatetimespent": null,          "resolution": null,          "resolutiondate": null,          "workratio": -1,          "lastViewed": null,          "watches": {              "self": "https://api-may2020.atlassian.net/rest/api/2/issue/MAY-32/watchers",              "watchCount": 1,              "isWatching": true          },          "created": "2020-05-11T11:12:10.355+0530",          "customfield\_10020": null,          "customfield\_10021": null,          "customfield\_10022": null,          "customfield\_10023": null,          "priority": {              "self": "https://api-may2020.atlassian.net/rest/api/2/priority/3",              "iconUrl": "https://api-may2020.atlassian.net/images/icons/priorities/medium.svg",              "name": "Medium",              "id": "3"          },          "labels": [],          "customfield\_10016": null,          "customfield\_10017": null,          "customfield\_10018": {              "hasEpicLinkFieldDependency": false,              "showField": false,              "nonEditableReason": {                  "reason": "PLUGIN\_LICENSE\_ERROR",                  "message": "The Parent Link is only available to Jira Premium users."              }          },          "customfield\_10019": "0|i0049j:",          "aggregatetimeoriginalestimate": null,          "timeestimate": null,          "versions": [],          "issuelinks": [],          "assignee": null,          "updated": "2020-05-11T11:12:10.355+0530",          "status": {              "self": "https://api-may2020.atlassian.net/rest/api/2/status/10000",              "description": "",              "iconUrl": "https://api-may2020.atlassian.net/",              "name": "To Do",              "id": "10000",              "statusCategory": {                  "self": "https://api-may2020.atlassian.net/rest/api/2/statuscategory/2",                  "id": 2,                  "key": "new",                  "colorName": "blue-gray",                  "name": "To Do"              }          },          "components": [],          "timeoriginalestimate": null,          "description": "Improvement creation USing REST API",          "customfield\_10010": null,          "customfield\_10014": null,          "timetracking": {},          "customfield\_10015": null,          "customfield\_10005": null,          "customfield\_10006": null,          "security": null,          "customfield\_10007": null,          "customfield\_10008": null,          "aggregatetimeestimate": null,          "attachment": [],          "customfield\_10009": null,          "summayy": "New Improvement",          "creator": {              "self": "https://api-may2020.atlassian.net/rest/api/2/user?accountId=5e85e557caa47a0c199f7c37",              "accountId": "5e85e557caa47a0c199f7c37",              "emailAddress": "rajalakshmi.govindarajan@testleaf.com",              "avatarUrls": {                  "48x48": "https://secure.gravatar.com/avatar/f565a725f1cc399943f607a9e664d3ce?d=https%3A%2F%2Favatar-management--avatars.us-west-2.prod.public.atl-paas.net%2Finitials%2FR-5.png&size=48&s=48",                  "24x24": "https://secure.gravatar.com/avatar/f565a725f1cc399943f607a9e664d3ce?d=https%3A%2F%2Favatar-management--avatars.us-west-2.prod.public.atl-paas.net%2Finitials%2FR-5.png&size=24&s=24",                  "16x16": "https://secure.gravatar.com/avatar/f565a725f1cc399943f607a9e664d3ce?d=https%3A%2F%2Favatar-management--avatars.us-west-2.prod.public.atl-paas.net%2Finitials%2FR-5.png&size=16&s=16",                  "32x32": "https://secure.gravatar.com/avatar/f565a725f1cc399943f607a9e664d3ce?d=https%3A%2F%2Favatar-management--avatars.us-west-2.prod.public.atl-paas.net%2Finitials%2FR-5.png&size=32&s=32"              },              "displayName": "Raji",              "active": true,              "timeZone": "Asia/Calcutta",              "accountType": "atlassian"          },          "subtasks": [],          "reporter": {              "self": "https://api-may2020.atlassian.net/rest/api/2/user?accountId=5e85e557caa47a0c199f7c37",              "accountId": "5e85e557caa47a0c199f7c37",              "emailAddress": "rajalakshmi.govindarajan@testleaf.com",              "avatarUrls": {                  "48x48": "https://secure.gravatar.com/avatar/f565a725f1cc399943f607a9e664d3ce?d=https%3A%2F%2Favatar-management--avatars.us-west-2.prod.public.atl-paas.net%2Finitials%2FR-5.png&size=48&s=48",                  "24x24": "https://secure.gravatar.com/avatar/f565a725f1cc399943f607a9e664d3ce?d=https%3A%2F%2Favatar-management--avatars.us-west-2.prod.public.atl-paas.net%2Finitials%2FR-5.png&size=24&s=24",                  "16x16": "https://secure.gravatar.com/avatar/f565a725f1cc399943f607a9e664d3ce?d=https%3A%2F%2Favatar-management--avatars.us-west-2.prod.public.atl-paas.net%2Finitials%2FR-5.png&size=16&s=16",                  "32x32": "https://secure.gravatar.com/avatar/f565a725f1cc399943f607a9e664d3ce?d=https%3A%2F%2Favatar-management--avatars.us-west-2.prod.public.atl-paas.net%2Finitials%2FR-5.png&size=32&s=32"              },              "displayName": "Raji",              "active": true,              "timeZone": "Asia/Calcutta",              "accountType": "atlassian"          },          "aggregateprogress": {              "progress": 0,              "total": 0          },          "customfield\_10000": "{}",          "customfield\_10001": null,          "customfield\_10002": null,          "customfield\_10003": null,          "customfield\_10004": null,          "environment": null,          "duedate": null,          "progress": {              "progress": 0,              "total": 0          },          "votes": {              "self": "https://api-may2020.atlassian.net/rest/api/2/issue/MAY-32/votes",              "votes": 0,              "hasVoted": false          },          "comment": {              "comments": [],              "maxResults": 0,              "total": 0,              "startAt": 0          },          "worklog": {              "startAt": 0,              "maxResults": 20,              "total": 0,              "worklogs": []          }      }  } |
| **Response Codes** | 200 🡪 If data retuned successfully  401🡪 Returned if the authentication credentials are incorrect or missing.  404🡪Returned if the issue is not found or the user does not have  permission to view it. |

1. **Edit an Issue in Jira (Issue can be edited with Issue ID or Key)**

| **API Type** | REST |
| --- | --- |
| **HTTP METHOD** | PUT |
| **Authorization** | Basic Authorization (User name and User Key) |
| **Params** | NA |
| **Headers** | NA |
| **End Point** | [https://api-may2020.atlassian.net/rest/api/2/issue/{issueidOrKey}](https://api-mar2020.atlassian.net/rest/api/2/issue/%7bissueidOrKey%7d)  [https://api-may2020.atlassian.net/rest/api/2/issue/10843](https://api-mar2020.atlassian.net/rest/api/2/issue/10004)  <https://api-may2020.atlassian.net/rest/api/2/issue/RA-32> |
| **Request Body(Sample)** | {  "fields": {    "description": "Issue updated via RestAssured on Oct 21 2021 --second time  "  }  } |
| **Response Body**  **(Sample)** | NA |
| **Response Codes** | 204 🡪 Returned if the request is successful.  400🡪 Returned if the request:   * the request body is missing. * the user does not have the necessary permission to edit one or more fields. * the request includes one or more fields that are not found or are not associated with the issue's edit screen. * the request includes an invalid transition.   401 🡪 Returned if the authentication credentials are incorrect or missing.  403🡪 Returned if the user does not have the necessary permission.  404🡪Returned if the issue is not found or the user does not have permission to view it. |
|  |  |

1. **Delete an Issue in Jira (Issue can be edited with Issue ID or Key)**

| **API Type** | REST |
| --- | --- |
| **HTTP METHOD** | DELETE |
| **Authorization** | Basic Authorization (User name and User Key) |
| **Params** | NA |
| **Headers** | NA |
| **End Point** | [https://api-may2020.atlassian.net/rest/api/2/issue/{issueidOrKey}](https://api-mar2020.atlassian.net/rest/api/2/issue/%7bissueidOrKey%7d)  [https://api-may2020.atlassian.net/rest/api/2/issue/10843](https://api-mar2020.atlassian.net/rest/api/2/issue/10004)  [https://api-may2020.atlassian.net/rest/api/2/issue/RA-32](https://api-mar2020.atlassian.net/rest/api/2/issue/RA-32) |
| **Request Body(Sample)** | NA |
| **Response Body**  **(Sample)** | NA |
| **Response Codes** | 204 🡪 Returned if the request is successful.  400🡪 Returned if the issue has subtasks and delete Subtasks is not set to *true*.  401 🡪 Returned if the authentication credentials are incorrect or missing.  403🡪 Returned if the user does not have permission to delete the issue.  404🡪Returned if the issue is not found or the user does not have permission to view issue. |
|  |  |