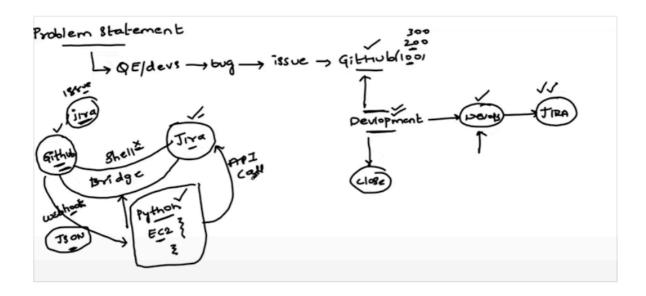
JIRA PROJECT with Python Flask

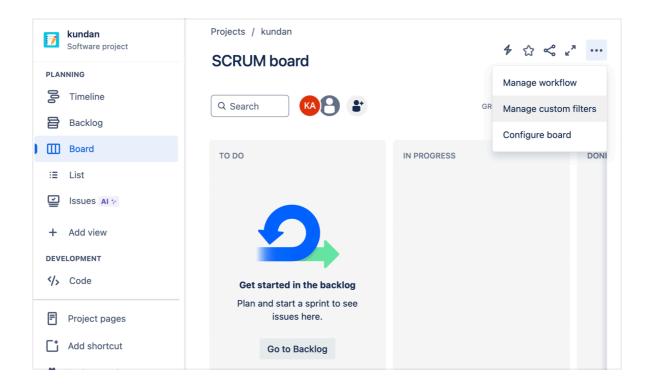


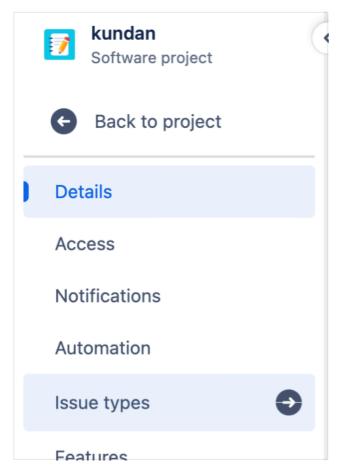
```
GET
import requests
from requests.auth import HTTPBasicAuth
import json
url = "https://kundan-antyakula.atlassian.net/rest/api/3/
project"
API_TOKEN = "ATATT3xFfGF0pWinVpqi5I7_W6k9G4k9aMRL1IBimLd0oK-
yt1zGeXgWlciI679oNRfnfAZbQvY6mFJfae3fsDyru7pJLnq8z7PpZwPwGBc
2g7kkqMWfbG01IFfl0F_wCKXsR9IM5ghRXDx0nIHjcw4Wyyk2nxneySs_0kJ
Xk971YZMu_QjmWrQ=2F3784E9"
auth = HTTPBasicAuth("kundanantyakula@gmail.com", API_TOKEN)
headers = {
  "Accept": "application/json"
response = requests.request(
   "GET",
   url,
   headers=headers,
   auth=auth
)
```

```
print(json.dumps(json.loads(response.text), sort_keys=True,
indent=4, separators=(",", ": ")))
ouput = json.loads(response.text)
name = ouput[0]["name"]
print(name)
for i in ouput:
     print(i['name'])
o/p -
python3 list_project.py
  {
    "avatarUrls": {
      "16x16": "https://kundan-antyakula.atlassian.net/rest/api/3/
universal_avatar/view/type/project/avatar/10401?size=xsmall",
       "24x24": "https://kundan-antyakula.atlassian.net/rest/api/3/
universal_avatar/view/type/project/avatar/10401?size=small",
       "32x32": "https://kundan-antyakula.atlassian.net/rest/api/3/
universal_avatar/view/type/project/avatar/10401?size=medium",
       "48x48": "https://kundan-antyakula.atlassian.net/rest/api/3/
universal_avatar/view/type/project/avatar/10401"
    "entityId": "6c11e543-8d19-405d-8092-9573ebe71c4b",
    "expand":
"description,lead,issueTypes,url,projectKeys,permissions,insight",
    "id": "10001",
    "isPrivate": false,
    "key": "KUN",
    "name": "kundan",
    "projectTypeKey": "software",
    "properties": {},
    "self": "https://kundan-antyakula.atlassian.net/rest/api/3/project/10001",
    "simplified": true,
    "style": "next-gen",
    "uuid": "6c11e543-8d19-405d-8092-9573ebe71c4b"
  },
    "avatarUrls": {
      "16x16": "https://kundan-antyakula.atlassian.net/rest/api/3/
universal_avatar/view/type/project/avatar/10405?size=xsmall",
       "24x24": "https://kundan-antyakula.atlassian.net/rest/api/3/
universal_avatar/view/type/project/avatar/10405?size=small",
       "32x32": "https://kundan-antyakula.atlassian.net/rest/api/3/
```

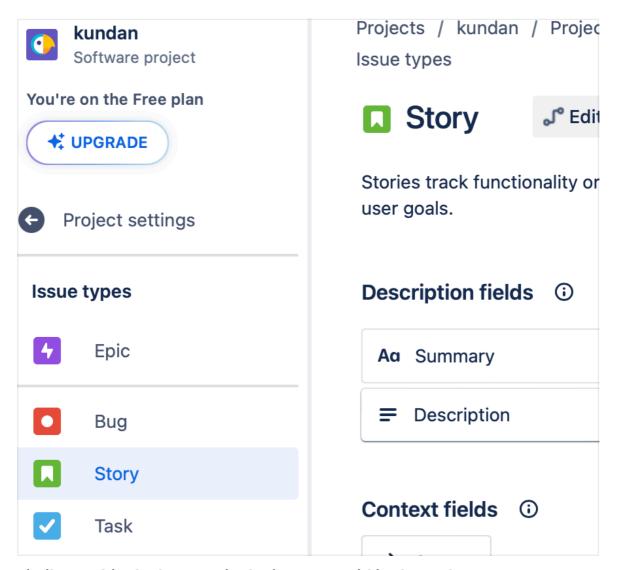
```
universal_avatar/view/type/project/avatar/10405?size=medium",
       "48x48": "https://kundan-antyakula.atlassian.net/rest/api/3/
universal_avatar/view/type/project/avatar/10405"
    },
     "expand":
"description,lead,issueTypes,url,projectKeys,permissions,insight",
     "id": "10000",
     "isPrivate": false,
     "key": "SUP",
     "name": "Support",
     "projectTypeKey": "service_desk",
     "properties": {},
    "self": "https://kundan-antyakula.atlassian.net/rest/api/3/project/10000",
     "simplified": false,
     "style": "classic"
  }
1
kundan
kundan
Support
```

Create Automated issues

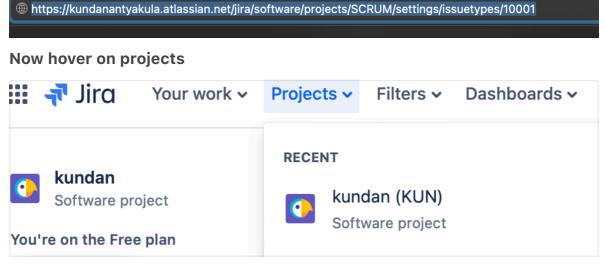




select story then you will be getting project id in the web link on top of the web page



similar to this the last one is the issue type id in the code



Project key will be KUN

```
# This code sample uses the 'requests' library:
# http://docs.python-requests.org
import requests
from requests.auth import HTTPBasicAuth
```

```
import json
url = "https://kundan-antyakula.atlassian.net/rest/api/3/
issue"
APITOKEN = "ATATT3xFfGF0pWinVpqi5I7_W6k9G4k9aMRL1IBimLd0oK-
yt1zGeXgWlciI679oNRfnfAZbQvY6mFJfae3fsDyru7pJLnq8z7PpZwPwGBc
2g7kkqMWfbG01IFfl0F_wCKXsR9IM5ghRXDx0nIHjcw4Wyyk2nxneySs_0kJ
Xk971YZMu QjmWrQ=2F3784E9"
auth = HTTPBasicAuth("kundanantyakula@gmail.com", APITOKEN)
headers = {
  "Accept": "application/json",
  "Content-Type": "application/json"
}
payload = json.dumps( {
  "fields": {
    "description": {
      "content": [
        {
          "content": [
              "text": "Order entry fails when selecting
supplier.",
              "type": "text"
            }
          ],
          "type": "paragraph"
        }
      ],
      "type": "doc",
      "version": 1
    },
    "issuetype": {
      "id": "10006"
    },
    "project": {
      "kev": "KUN"
    },
    "summary": "first jira ticket",
  },
```

```
"update": {}
} )

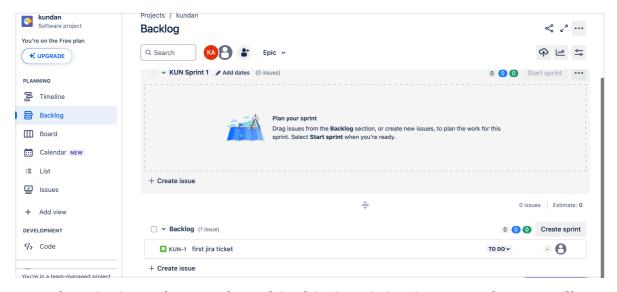
response = requests.request(
   "POST",
   url,
   data=payload,
   headers=headers,
   auth=auth
)

print(json.dumps(json.loads(response.text), sort_keys=True,
indent=4, separators=(",", ": ")))
```

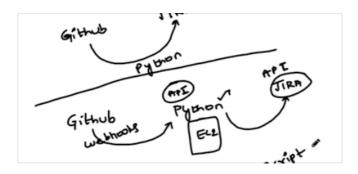
o/p-

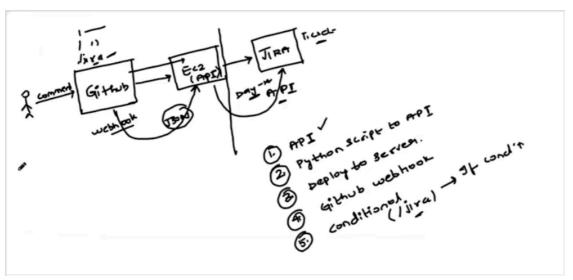
```
(myenv) → Jiraproject python3 creat_jira.py
{
    "id": "10000",
    "key": "KUN-1",
    "self": "https://kundan-antyakula.atlassian.net/rest/api/3/issue/10000"
}
```

finally output indicating that it created a jira ticket



Creating Flask API integrating with github web hook creates issue on /jira





Create Flask app returning hello world

Ec2 ubuntu instance creation

```
from flask import Flask
app = Flask(__name__) #creating flask app instance
```

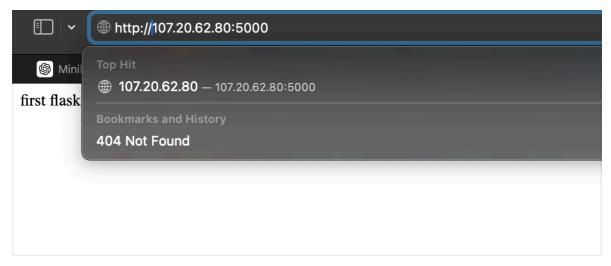
@app.route("/") # decorator purpose is before invoking
function it perform action
#if someone is working on API but before he needs to be

authenticated so decorator can be used in such circumstances #similarly here if someone wants to access this hello API are they trying to access on particular path or not def fl():

return "first flask"

app.run('0.0.0.0')

#to build we need server but flask has inbuilt development server without deploying on tomcat or bla bla



@app.route("/") this decorator is not letting us enter anything after / can only accesed before /



what is we keep someother after / ?

Intergate above falsk code with GET code from jira first program & convert into POST method as we need post operation performed to push issues through /jira in github issues & automatically generate issue in jira.

Run this code on the ec2 instance

```
# This code sample uses the 'requests' library:
# http://docs.python-requests.org
import requests
from requests.auth import HTTPBasicAuth
import json
from flask import Flask
app = Flask(__name__)
# Define a route that handles GET requests
@app.route('/createJira', methods=['POST'])
def createJira():
    url = "https://kundan-antyakula.atlassian.net/rest/api/
3/issue"
```

```
auth = HTTPBasicAuth("kundanantyakula@gmail.com",
API_TOKEN)
    headers = {
        "Accept": "application/json",
        "Content-Type": "application/json"
    }
    payload = json.dumps( {
        "fields": {
        "description": {
            "content": [
                {
                     "content": [
                         {
                             "text": "Order entry fails when
selecting supplier.",
                             "type": "text"
                         }
                     ],
                     "type": "paragraph"
                ],
            "type": "doc",
             "version": 1
        },
        "project": {
           "key": "KUN"
        "issuetype": {
            "id": "10006"
        "summary": "Main order flow broken",
    },
    "update": {}
    } )
    response = requests.request(
        "POST",
        url,
        data=payload,
        headers=headers,
        auth=auth
    )
```

```
return json.dumps(json.loads(response.text),
sort_keys=True, indent=4, separators=(",", ": "))
if __name__ == '__main__':
    app.run(host='0.0.0.0', port=5000)
```

```
ubuntu@ip-172-31-17-101:~$ vt githubjira.py

* Serving Flask app 'githubjira'

* Debug mode: off

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

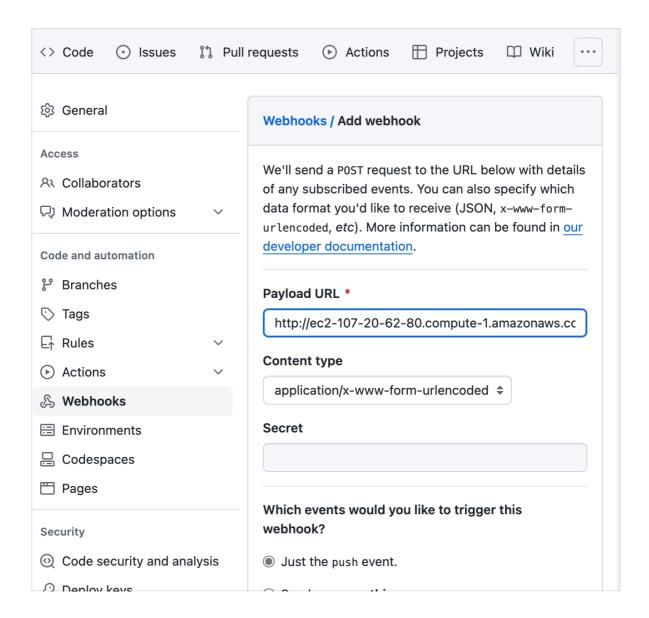
* Running on all addresses (0.0.0.0)

* Running on http://127.0.0.1:5000

* Running on http://172.31.17.101:5000

Press CTRL+C to quit
```

Github Repo settings -> Now, Add web hook from public dns of EC2 instance



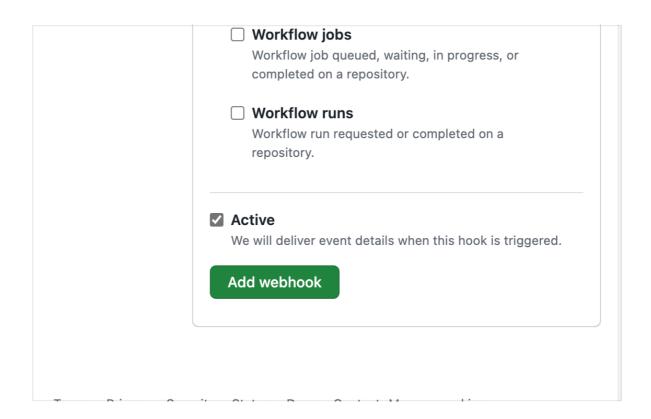
Payload URL *

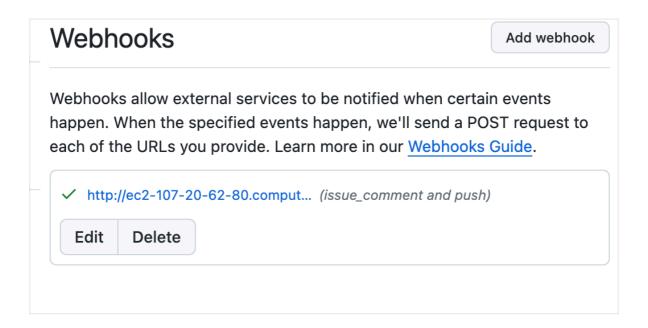
ec2-107-20-62-80.compute-1.amazonaws.com:5000/createJira

Be extra cautious while entering payload URL make sure port no and createJira added in code is similar.

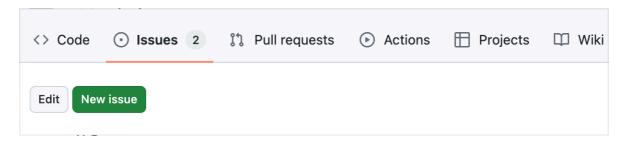
Select radio button -> Let me select individual events -> Issue Comments

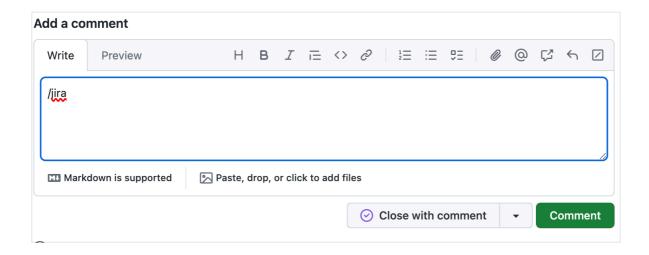
Issue comments Issue comment created, edited, or deleted.
Issues Issue opened, edited, deleted, transferred, pinned, unpinned, closed, reopened, assigned, unassigned, labeled, unlabeled, milestoned, demilestoned, locked, or unlocked.
☐ Labels Label created, edited or deleted.
Merge groups Merge Group requested checks, or was destroyed.





Click on New issue -> add comment





"summary": "Main order flow broken" issue is generated in jira automatically

