

“Continuous Integration Report(CIR)”

Framework: *Django*
















CI Tool: *GitHub Actions as an integration tool*


Introduction: Continuous Integration (CI) in GitHub is a development practice where code changes are automatically tested and verified as part of the software development process. It involves integrating code changes into a shared repository frequently, typically several times a day. Each integration triggers automated builds and tests, ensuring that the codebase remains in a functional state at all times.


There are several tools that can be used like Jenkins, CircleCI, JitLab, GitHub Actions etc. As we used GitHub and It is very much a neighbour feature, That's why we selected GutHub actions as our CI tool.


Working Procedure:


Step-1: [Marge All Braches into the main brach on GitHub.](#)


	.github/workflows	Create python-package.yml for running pytest	5 hours ago
	Resources	Adding testing tools pdf documentation for our project	8 hours ago
	SQA_SMS	Generating documentation using sphinx	5 hours ago
	__pycache__	Generating documentation using sphinx	5 hours ago
	base	Generating documentation using sphinx	5 hours ago
	docs	Generating documentation using sphinx	5 hours ago
	env	Merging the add notice and notice view branch	last week
	htmlcov	Minor changes to push htmlcov	yesterday
	static/images	student_info has been added	2 weeks ago
	templates	Commenting for Search and Delete Student done	2 days ago
	.coverage	Minor changes to push htmlcov	yesterday
	.coveragerc	Resource folder is created	yesterday
	.gitignore	common page has been created	2 weeks ago
	CSE-455_SQA	Merging Search_delete_student with the main branch	2 days ago
	README.md	Create README.md	last week

 Readme

 Activity

 0 stars

 1 watching

 0 forks

Report repository






Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

Contributors 5



Languages

Python 68.0%

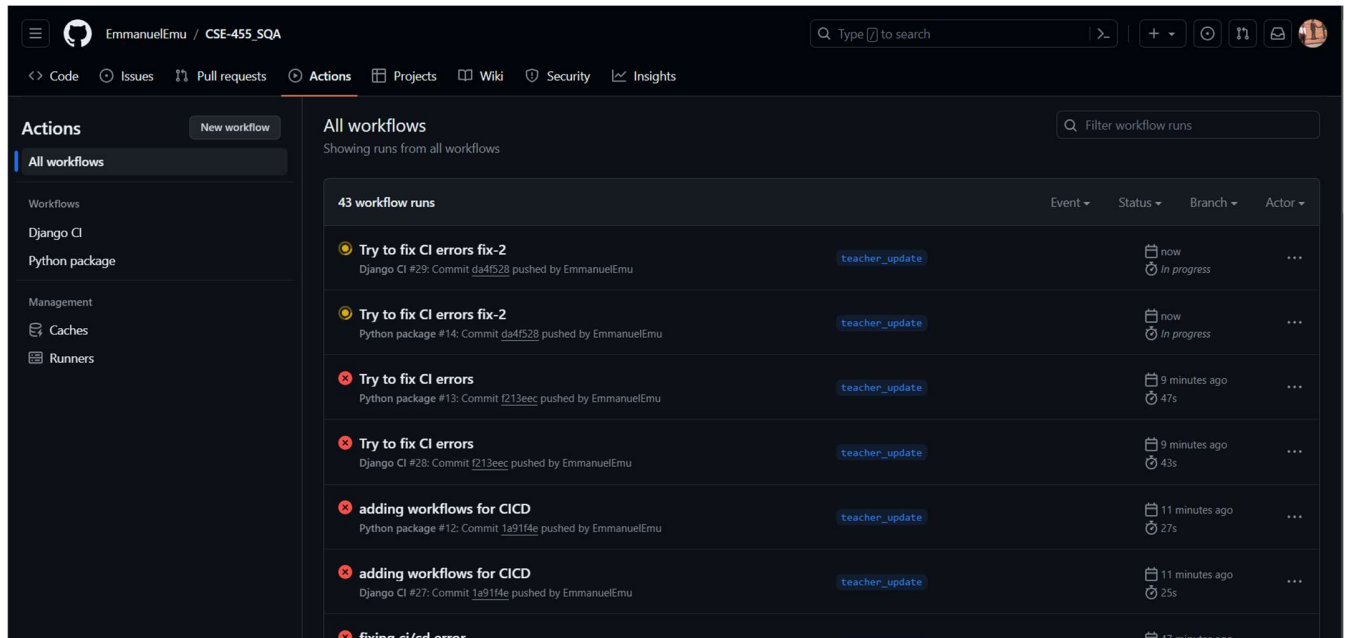
HTML 32.0%

Step-2: [Create a “requiriement.txt” file by VS code and pushed in the main branch](#)

```
Code Blame 81 lines (80 loc) · 1.44 KB Code 55% faster with GitHub Copilot

1 altgraph==0.17
2 asgiref==3.4.1
3 atomicwrites==1.4.0
4 attrs==21.2.0
5 backports.entry-points-selectable==1.1.1
6 bcrypt==3.2.0
7 bottle==0.12.19
8 bottle-websocket==0.2.9
9 cached-property==1.5.2
10 certifi==2021.10.8
11 cffi==1.14.3
12 charset-normalizer==2.0.7
13 colorama==0.4.4
14 coverage==6.3
15 cryptography==35.0.0
16 distlib==0.3.4
17 distro==1.6.0
18 Django==3.2.10
19 django-crispy-forms==1.13.0
20 django-debug-toolbar==3.2.3
21 django-filter==1.1.0
22 django-utils-six==2.0
23 djangorestframework==3.13.1
24 djangorestframework-filters==0.11.1
25 docker==5.0.3
26 docker-compose==1.29.2
27 dockerpty==0.4.1
28 docopt==0.6.2
29 Eel==0.14.0
30 Faker==11.3.0
31 filelock==3.4.0
32 future==0.18.2
33 gevent==20.9.0
```

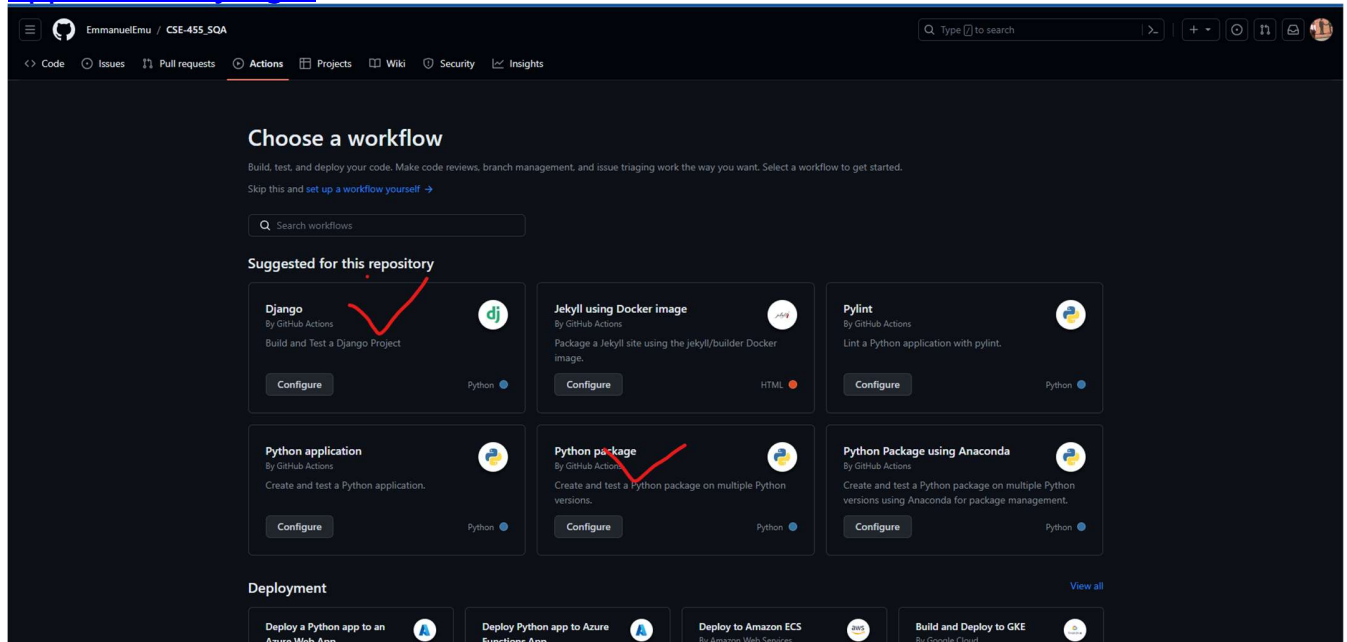
Step-3: [Go to the “GitHub Actions” option and create a “new workflow”](#)



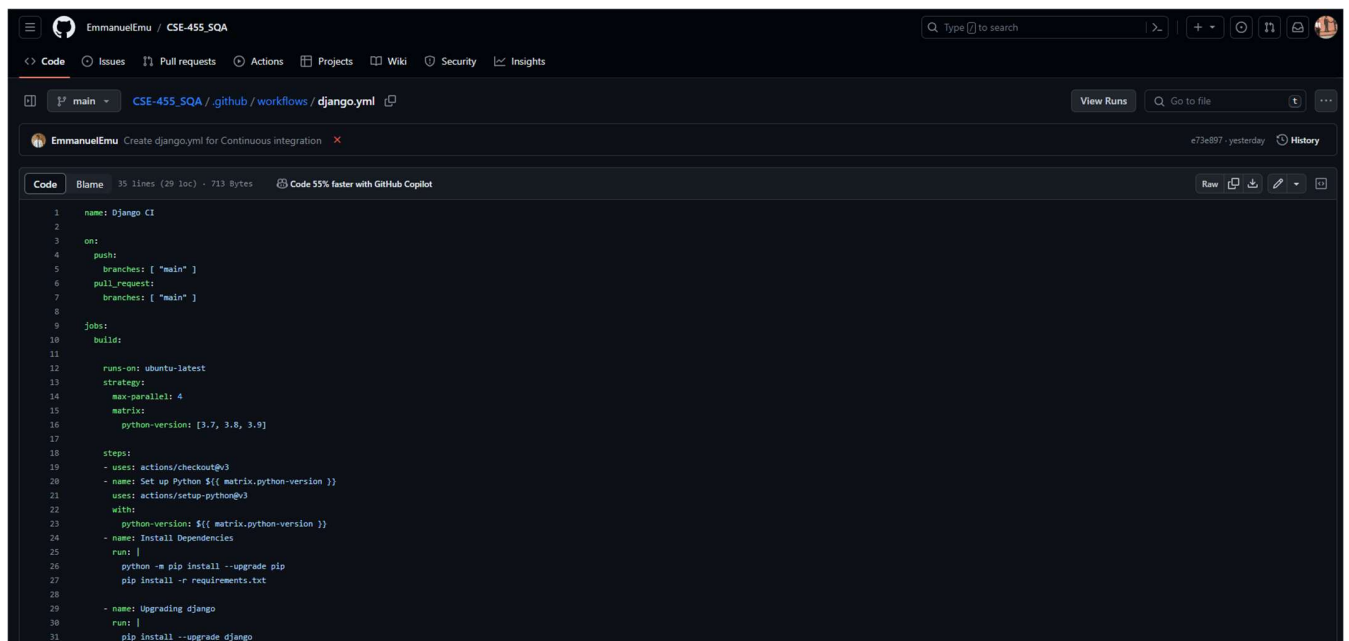
The screenshot displays the GitHub Actions interface for the repository 'EmmanuelEmu / CSE-455_SQA'. The 'Actions' tab is selected in the top navigation bar. On the left sidebar, under 'Actions', the 'All workflows' option is highlighted. The main content area, titled 'All workflows', shows a list of 43 workflow runs. The runs are filtered by 'teacher_update' and are in various states: 'In progress' (yellow circle with a dot) and 'Failed' (red circle with an 'x'). The runs are sorted by time, with the most recent at the top. The first two runs are 'Try to fix CI errors fix-2' for Django CI #29 and Python package #14, both pushed by EmmanuelEmu. The next two are 'Try to fix CI errors' for Python package #13 and Django CI #28, also pushed by EmmanuelEmu. The following two are 'adding workflows for CICD' for Python package #12 and Django CI #27, pushed by EmmanuelEmu. The last visible run is 'fixing ci/cd error'.

Workflow Name	Event	Status	Branch	Actor
Try to fix CI errors fix-2	teacher_update	In progress		EmmanuelEmu
Try to fix CI errors fix-2	teacher_update	In progress		EmmanuelEmu
Try to fix CI errors	teacher_update	Failed		EmmanuelEmu
Try to fix CI errors	teacher_update	Failed		EmmanuelEmu
adding workflows for CICD	teacher_update	Failed		EmmanuelEmu
adding workflows for CICD	teacher_update	Failed		EmmanuelEmu
fixing ci/cd error		Failed		

Step-4: Choose a frame work according to our project for CI, “Python application-Django”



Step-5: Update Django .yaml file belongs to in “.github/workflows” in main repo on Github path for committing the CI test and build



Step-6: [Build States execution](#)

Accept phases:

1. Setup Job
2. Run actions/checkout@v3
3. Set up Python 3.7
4. Install dependencies
5. Upgrading django
6. Post Run actions/checkout@v3
7. Complete job

Error phase:

1. Run test

The screenshot displays the GitHub Actions interface for a workflow run. On the left, the 'Summary' tab is active, showing a list of jobs: 'build (3.7)', 'build (3.8)', and 'build (3.9)'. The 'build (3.7)' job is highlighted with a red error icon. Below the job list, the 'Run details' section shows 'Usage' and 'Workflow file' links.

The main panel shows the 'build (3.7)' job details, indicating it 'failed 4 minutes ago in 48s'. A 'Beta Give feedback' button and a 'Search logs' input are visible. The 'Run Tests' section is expanded, showing a list of files and lines. The error message is highlighted in red at the bottom of the log:

```
39 Error: Process completed with exit code 1.
```

Below the error message, a list of steps is shown:

- Post Set up Python 3.7 (0s)
- Post Run actions/checkout@v3 (0s)
- Complete job (0s)

```

417 Stored in directory: /home/runner/.cache/pip/wheels/54/c7/ff/ead8e8b78db7e4146f1981d8fb6d0d08b51f467c34791bde4
418 Building wheel for docopt (pyproject.toml): started
419 Building wheel for docopt (pyproject.toml): finished with status 'done'
420 Created wheel for docopt: filename=docopt-0.6.2-py2.py3-none-any.whl size=13786 sha256=bb745cd81cd81a28fd823dfd5cc87e155f5c6b31bb97d0b350eaa329b03df2
421 Stored in directory: /home/runner/.cache/pip/wheels/70/4a/46/1309fc853b8d395e0baf1b6df7845bdd82c95fd59dd8d2b
422 Building wheel for Eel (pyproject.toml): started
423 Building wheel for Eel (pyproject.toml): finished with status 'done'
424 Created wheel for Eel: filename=Eel-0.14.0-py3-none-any.whl size=17439 sha256=53b099b778d61355ced44770f1cfd16b33c1aced27f2fcb2aa7065a430d93a
425 Stored in directory: /home/runner/.cache/pip/wheels/f1/c2/5c/5f6bc6e471a5ea3c3d9b46f832e1ca0a2a66d229c4efb13c9
426 Building wheel for future (pyproject.toml): started
427 Building wheel for future (pyproject.toml): finished with status 'done'
428 Created wheel for future: filename=future-0.18.2-py3-none-any.whl size=491058 sha256=bbe0b989ab9eb1ba10e0d8f69d0f10461b0fd4ddc5d41dfffa35fd3afb253b1c6
429 Stored in directory: /home/runner/.cache/pip/wheels/2f/a0/d3/4830d9f80e6b3be787f19fc911b8e7aa462986a40ab1e4bb94
430 Building wheel for mysqlclient (pyproject.toml): started
431 Building wheel for mysqlclient (pyproject.toml): finished with status 'done'
432 Created wheel for mysqlclient: filename=mysqlclient-2.1.0-cp39-cp39-linux_x86_64.whl size=106833 sha256=340df74effd7647feb596d5699f0b61d80fd72c49ee33be339368717bc4eb737
433 Stored in directory: /home/runner/.cache/pip/wheels/87/b7/2c/de7dba0ac2f491d1bbc8c56b7320041ef58621ea75b47bdc9
434 Building wheel for pefile (pyproject.toml): started
435 Building wheel for pefile (pyproject.toml): finished with status 'done'
436 Created wheel for pefile: filename=pefile-2019.4.18-py3-none-any.whl size=60817 sha256=be87e12e44fa952c3a04fe642f5989da8a63af4fc95f7a7732c1c4c37ae5af6e
437 Stored in directory: /home/runner/.cache/pip/wheels/f4/da/18/d53583cd2746d6d4a38630ac2ed3adf1c4c87cb893f4c29b3
438 Building wheel for pyinstaller (pyproject.toml): started
439 Building wheel for pyinstaller (pyproject.toml): finished with status 'done'
440 Created wheel for pyinstaller: filename=pyinstaller-4.1-py3-none-any.whl size=2790257 sha256=938f050b516896d594629800aed3ef775712887e1a95fd996ae3a77a1eb83d8e
441 Stored in directory: /home/runner/.cache/pip/wheels/30/0b/3c/7692e73baa6781c79b3945d2baabacc43889546a430324cd83
442 Successfully built bottle-websocket django-allauth dockerpty docopt Eel future mysqlclient pefile pyinstaller
443 Installing collected packages: whichcraft, texttable, text-unidecode, pytz, pyinstaller-hooks-contrib, iniconfig, greenlet, docopt, django-filter, distro, distlib, certifi, cached-property, bottle, altgraph,
zope.interface, zope.event, zipp, virtualenv-clone, urllib3, typing_extensions, toml, toml, sqlparse, six, simplejson, PyYAML, python-dotenv, pyrsistent, pyparsing, PyMySQL, pyinstaller, pycparser, py, pluggy,
platformdirs, Pillow, oauthlib, mysqlclient, idna, future, filelock, django-utils-six, django-crispy-forms, defusedxml, coverage, colorama, charset-normalizer, backports.entry-points-selectable, attrs, atomicwrites,
asgiref, websocket-client, virtualenv, requests, reportlab, python3-openid, python-dateutil, pefile, packaging, jsonschema, importlib-metadata, gevent, dockerpty, django-advanced-filters, Django, cffi, requests-
oauthlib, pytest, PyNaCl, pipenv, gevent-websocket, Faker, docker, django-rest-framework, django-debug-toolbar, cryptography, bcrypt, pytest-django, pytest-cov, paramiko, mixer, dj
444 Error: The operation was canceled.

```

Reason :

The failure in the GitHub Actions workflow is likely due to an import issue with Django's `FieldDoesNotExist` within the `django_filters` module. This can occur when there's a version mismatch between Django and Django Filters specified in the project dependencies. It's important to ensure compatibility between these packages and address any potential issues with the installation or dependencies to resolve the failure in the workflow.

