

## *SRIP Intern Evaluation Guide*

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## Introduction

This document describes the steps to evaluate your assigned intern's work on SRIP Scoreboard.

## Process

There are two parts to the process of evaluating your intern's score. The first part needs to be done only once during your mentorship period or whenever there is change in the codebase which will be intimated to you by the SRIP coordinator. The second part is a continuous process for evaluating the interns that you are mentoring.

Part 1 : Getting code base/executable for calculating function points

Part 2 : Evaluating your Interns

## Part 1 : Getting code base/executable for calculating function points

Source Code Repository for calculating function points-

<https://gitlab.com/srip-project/srip-scoreboard/tree/master>

Steps to install the function point evaluator:

1. Please go to this link  
<https://gitlab.com/srip-project/srip-scoreboard/tree/master/Evaluator-Codes>
2. Download the four files(fpevaluator.py, script.py and codeit.sh, pull.sh), the four files can be downloaded together as a zip, tar file.

## Part 2 : Evaluating Your Interns

Document describe working of scoreboard:

[https://docs.google.com/document/d/1Gb8a5iFCmelmEeivzt7gXz8OMWzq6f\\_qiF5ZUxnYDnA/edit?usp=sharing](https://docs.google.com/document/d/1Gb8a5iFCmelmEeivzt7gXz8OMWzq6f_qiF5ZUxnYDnA/edit?usp=sharing)

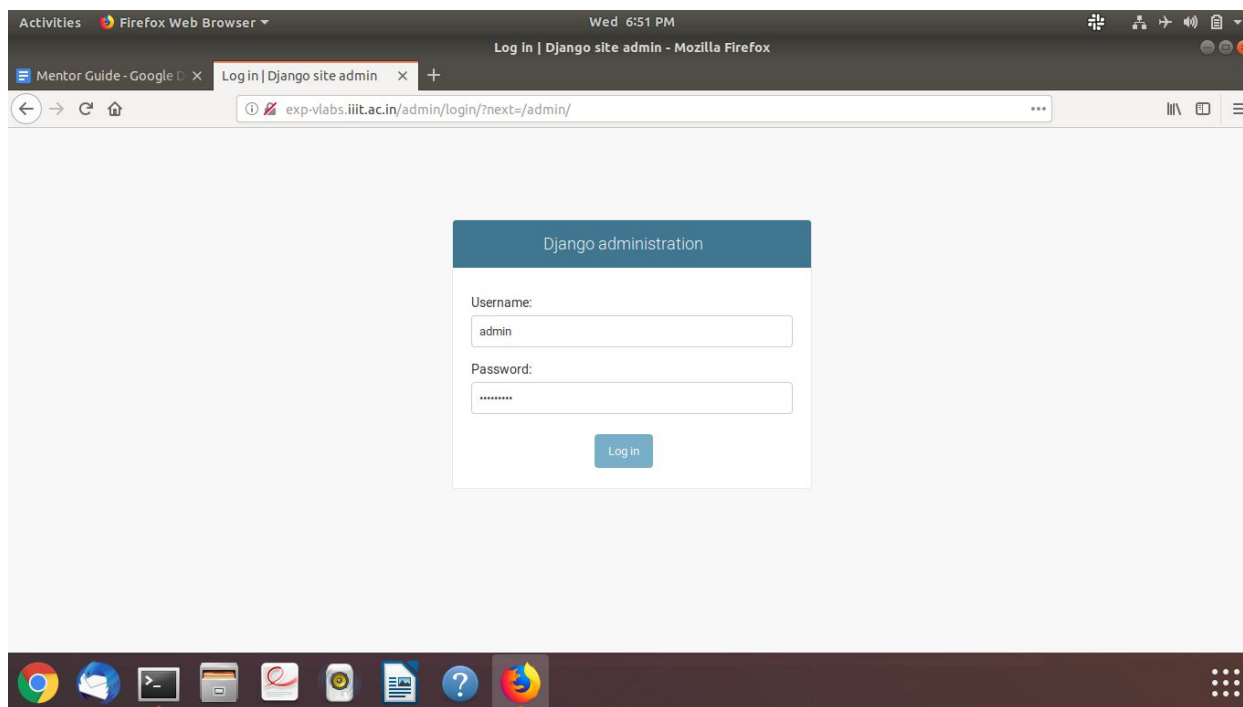
This part is a continuous process for evaluating the interns that you are mentoring.

## Evaluating Your Interns

**Step 0:** Copy the four files i.e. script.py, codeit.sh, fpevaluator.py , pull.sh (which you have downloaded) that you downloaded in a zip folder and extract it to a new folder called “TEST” and then start evaluating.

The following are the steps to be followed to evaluating your interns and updating their work ( function points and effort in hours) on SRIP Scoreboard.

**Step 1:** Go to <http://srrip.vlabs.ac.in/admin>. Login with the following username and password.



**Step 2 :** Go to Logged issues for evaluating the commit. Select the intern and the commit to be evaluated.

Activities Firefox Web Browser Fri 4:42 PM

Select logged issue to change X Intern Evaluation Guide -> New message in escalation-mentors1  
Lalit (SRIP): Looks like there is a query pending on project 5!

exp-vlabs.iiit.ac.in/admin/portalapp/loggedissue/ 133%

iiith/issues/248

<input type="checkbox"/>	varunkabra2008	7c3a791cb80fef2d93b9affc589c3557ce7f30f9	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/386">https://github.com/virtual-labs/vlsi-iiith/issues/386</a>	0.0	Aditya	vk1309	May 17,
<input type="checkbox"/>	varunkabra2008	89ef9325d6d6c63e4f3c772dd121c1c150bd929e	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/386">https://github.com/virtual-labs/vlsi-iiith/issues/386</a>	0.0	Aditya	vk1309	May 17,
<input type="checkbox"/>	arihant.jain821999	526ffebc5f3e2f1deccff34e01b1bc71c29425d	<a href="https://github.com/arihantJn/k-means-clustering/commits/master">https://github.com/arihantJn/k-means-clustering/commits/master</a>	0.0	Ayush	arihantJn	May 17,
<input type="checkbox"/>	vishwanimadasu2001	daa0d9b3d9729ac48e4b3e1e0b2fa6014fd42ab9	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/380">https://github.com/virtual-labs/vlsi-iiith/issues/380</a>	0.0	Aditya	MadasuVishwani	May 17,
<input type="checkbox"/>	vishwanimadasu2001	def2b7e2e76aceaa593487241ddeb1a52d4624f4	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/380">https://github.com/virtual-labs/vlsi-iiith/issues/380</a>	0.0	Aditya	MadasuVishwani	May 17,
<input type="checkbox"/>	shinde.shantanu21	d2c7b435bf9c16f0e7abbfee9570cd8412015a42	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/380">https://github.com/virtual-labs/vlsi-iiith/issues/380</a>	0.84	Paryul	Shantanu Shinde	May 17,

varunka Highlight All Match Case Whole Words 1 of 1 match

Chrome, Mail, Terminal, File Manager, SRIP, VS Code, Help, Firefox, Ubuntu Dash

Step 3 : Check if you are the mentor for the selected intern

Activities Firefox Web Browser Fri 4:38 PM

Select logged issue to change | Django site admin - Mozilla Firefox

Select logged issue to change X +

exp-vlabs.iiit.ac.in/admin/portalapp/loggedissue/ 133%

### Django administration

WELCOME, ADMIN. [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home > Portalapp > Logged Issues

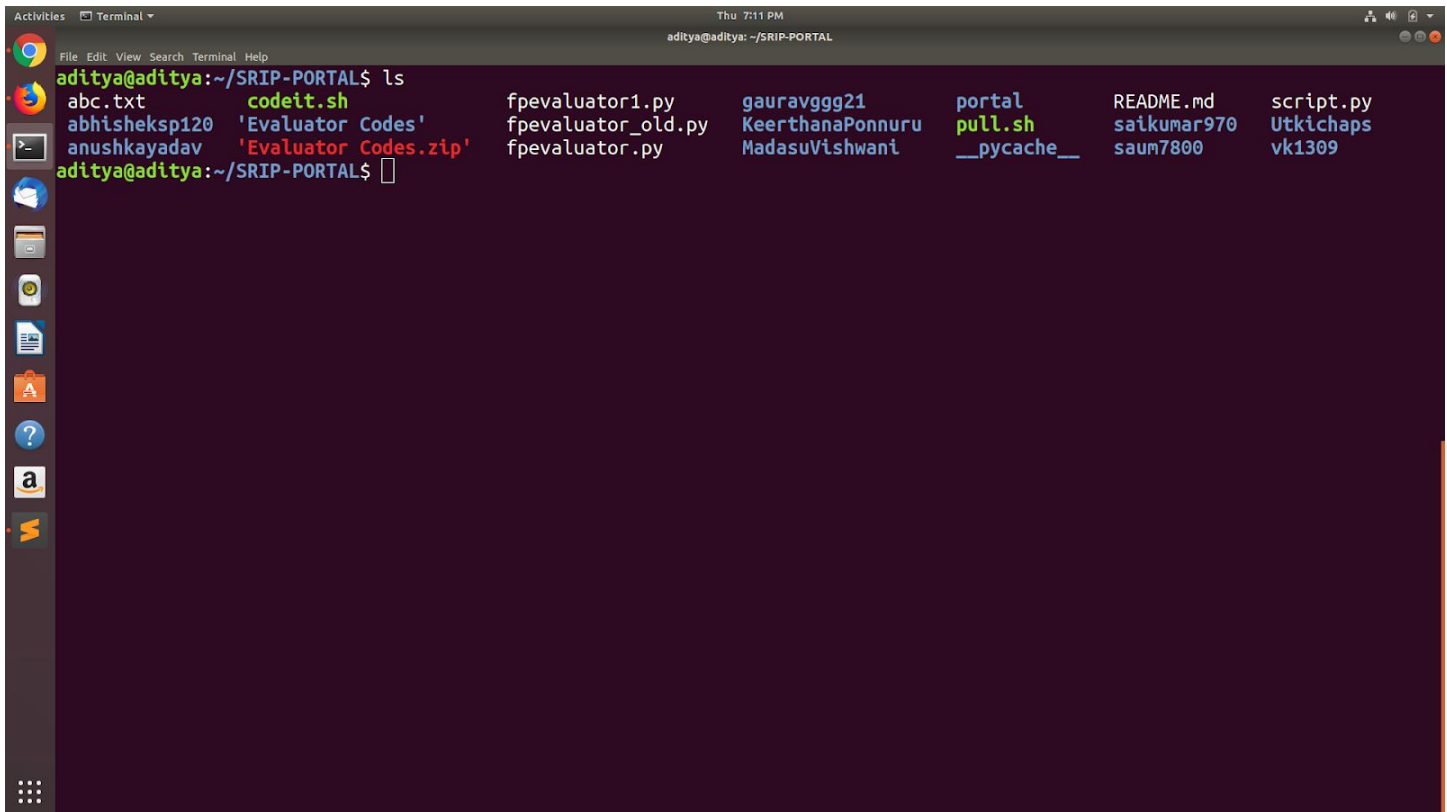
Select logged issue to change ADD LOGGED ISSUE +

Action:  Go 0 of 27 selected

<input type="checkbox"/>	USERNAME	COMMIT ID	URL	ISSUE POINTS	MENTOR	HANDLE	TOC
<input type="checkbox"/>	varunkabra2008	7c3a791cb80fef2d93b9affc589c3557ce7f30f9	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/386">https://github.com/virtual-labs/vlsi-iiith/issues/386</a>	0.0	Aditya	vk1309	May 17,
<input type="checkbox"/>	varunkabra2008	89ef9325d6d6c63e4f3c772dd121c1c150bd929e	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/386">https://github.com/virtual-labs/vlsi-iiith/issues/386</a>	0.0	Aditya	vk1309	May 17,
<input type="checkbox"/>	arihant.jain821999	526ffebc5f3e2f1deccff34e01b1bc71c29425d	<a href="https://github.com/arihantJn/k-means-clustering/commits/master">https://github.com/arihantJn/k-means-clustering/commits/master</a>	0.0	Ayush	arihantJn	May 17,

Taskbar icons: Chrome, Mail, Terminal, File Manager, SRIP, Camera, Documents, Help, Firefox, Ubuntu Dash

**Step 4 :** Run terminal where all the evaluator files are there(test folder).



```
aditya@aditya:~/SRIP-PORTAL$ ls
abc.txt          codeit.sh        fpevaluator1.py  gauravggg21     portal          README.md       script.py
abhisheksp120    'Evaluator Codes' fpevaluator_old.py KeerthanaPonnuru pull.sh         saikumar970    Utkichaps
anushkayadav     'Evaluator Codes.zip' fpevaluator.py   MadasuVishwani  __pycache__    saum7800       vk1309
aditya@aditya:~/SRIP-PORTAL$
```

Step 5 : Type **chmod 777 codeit.sh pull.sh**.

Step 6 : `./codeit.sh` takes in two arguments which you have to provide using this page(Only for the first time that a new user has committed on the portal)

- 1st argument - Github handle
- 2nd argument - Project number i.e. VLSI is project 4 so number 4(similarly for other projects you can get the number via slack or the project assignment doc)

### 1st argument

Activities Firefox Web Browser Fri 4:43 PM

Select logged issue to change | Django site admin - Mozilla Firefox

Select logged issue to change x Intern Evaluation Guide x +

exp-vlabs.iiit.ac.in/admin/portalapp/loggedissue/ 133%

<input type="checkbox"/>	varunkabra2008	7c3a791cb80fef2d93b9affc589c3557ce7f30f9	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/248">https://github.com/virtual-labs/vlsi-iiith/issues/248</a>	0.0	Aditya	vk1309	May 17,	
<input type="checkbox"/>	varunkabra2008	89ef9325d6d6c63e4f3c772dd121c1c150bd929e	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/386">https://github.com/virtual-labs/vlsi-iiith/issues/386</a>	0.0	Aditya	vk1309	May 17,	
<input type="checkbox"/>	arihant.jain821999	526ffe5f3e2f1deccff34e01b1bc71c29425d	<a href="https://github.com/arihantJn/k-means-clustering/commits/master">https://github.com/arihantJn/k-means-clustering/commits/master</a>	0.0	Ayush	arihantJn	May 17,	
<input type="checkbox"/>	vishwanimadasu2001	daa0d9b3d9729ac48e4b3e1e0b2fa6014fd42ab9	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/380">https://github.com/virtual-labs/vlsi-iiith/issues/380</a>	0.0	Aditya	MadasuVishwani	May 17,	
<input type="checkbox"/>	vishwanimadasu2001	def2b7e2e76aceaa593487241ddeb1a52d4624f4	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/380">https://github.com/virtual-labs/vlsi-iiith/issues/380</a>	0.0	Aditya	MadasuVishwani	May 17,	
<input type="checkbox"/>	shinde.shantanu21	d2c7b435bf9c16f0e7abbfee9570cd8412015a42	<a href="https://github.com/virtual-labs/vlsi-iiith/issues/380">https://github.com/virtual-labs/vlsi-iiith/issues/380</a>	0.84	Paryul	Shantanu Shinde	May 17,	

varunka Highlight All Match Case Whole Words 1 of 1 match

Chrome, Mail, Terminal, File Manager, LibreOffice, VLC, Firefox, etc.

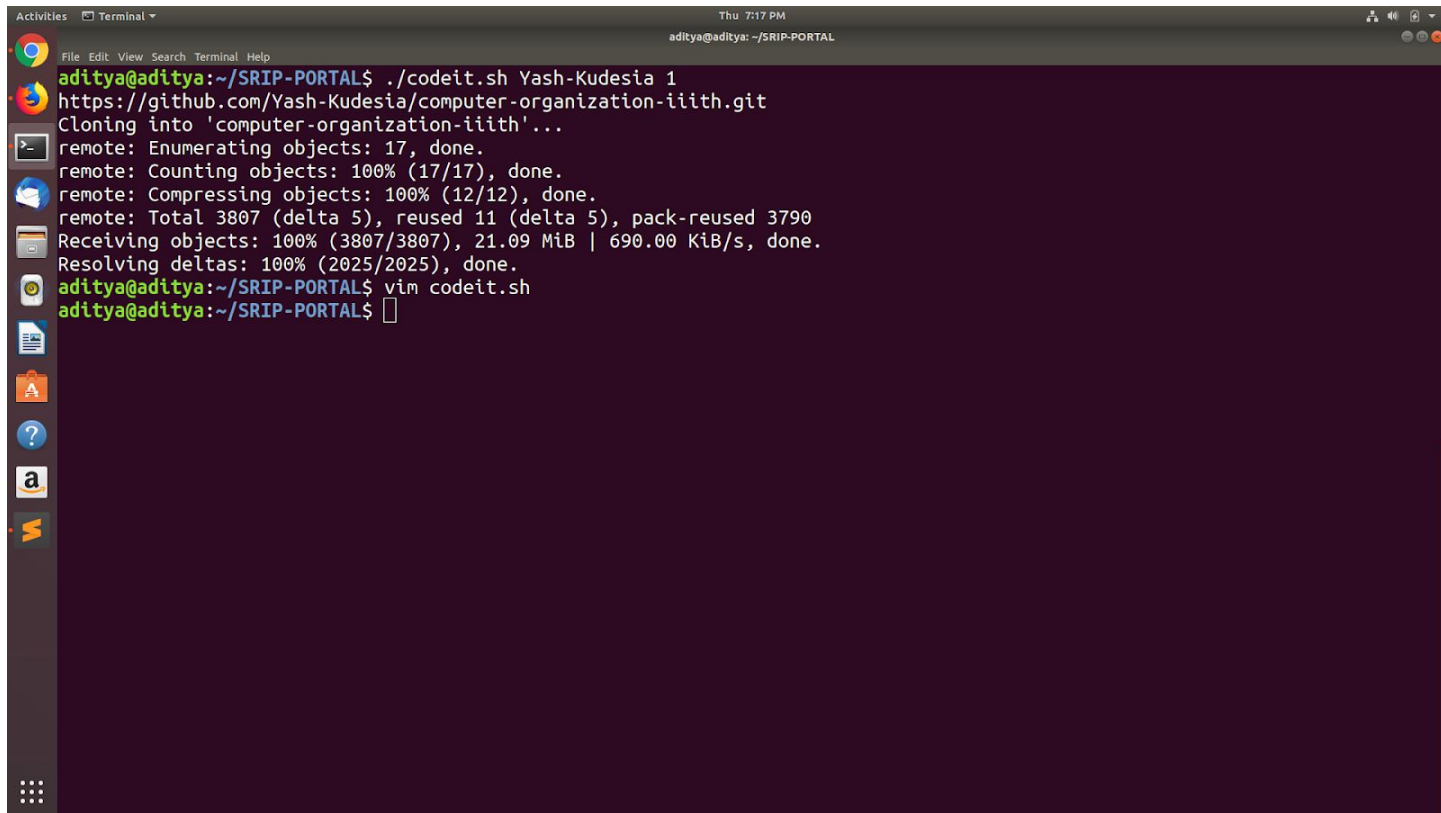


2nd argument

```
aditya@aditya:~/SRIP-PORTAL$ ./codeit.sh vk1309 4
https://github.com/vk1309/vlsi-iiith.git
Cloning into 'vlsi-iiith'...
remote: Enumerating objects: 22, done.
remote: Counting objects: 100% (22/22), done.
remote: Compressing objects: 100% (22/22), done.
Receiving objects: 2% (76/3127), 4.07 MiB | 640.00 KiB/s
```



Step 7 : Run codeit.sh for the first time for a new user followed by the two arguments.

A screenshot of a Linux terminal window showing the execution of a script. The terminal has a dark purple background and a light-colored font. The user 'aditya' is logged in as 'aditya' on the machine 'aditya' in the directory '~/SRIP-PORTAL'. The command './codeit.sh Yash-Kudesia 1' is executed, which clones a GitHub repository. The output shows the progress of cloning, including enumerating, counting, and compressing objects, and receiving and resolving deltas. The terminal window also shows a sidebar with various application icons and a top bar with system information like the date and time (Thu 7:17 PM).

```
aditya@aditya:~/SRIP-PORTAL$ ./codeit.sh Yash-Kudesia 1
https://github.com/Yash-Kudesia/computer-organization-iiith.git
Cloning into 'computer-organization-iiith'...
remote: Enumerating objects: 17, done.
remote: Counting objects: 100% (17/17), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 3807 (delta 5), reused 11 (delta 5), pack-reused 3790
Receiving objects: 100% (3807/3807), 21.09 MiB | 690.00 KiB/s, done.
Resolving deltas: 100% (2025/2025), done.
aditya@aditya:~/SRIP-PORTAL$ vim codeit.sh
aditya@aditya:~/SRIP-PORTAL$
```

```

Activities Terminal Thu 7:19 PM
aditya@aditya: ~/SRIP-PORTAL
File Edit View Search Terminal Help
aditya@aditya:~/SRIP-PORTAL$ ./codeit.sh Yash-Kudesia 1
https://github.com/Yash-Kudesia/computer-organization-iiith.git
Cloning into 'computer-organization-iiith'...
remote: Enumerating objects: 17, done.
remote: Counting objects: 100% (17/17), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 3807 (delta 5), reused 11 (delta 5), pack-reused 3790
Receiving objects: 100% (3807/3807), 21.09 MiB | 690.00 KiB/s, done.
Resolving deltas: 100% (2025/2025), done.
aditya@aditya:~/SRIP-PORTAL$ vim codeit.sh
aditya@aditya:~/SRIP-PORTAL$ ls
abc.txt          'Evaluator Codes'      fpevaluator.py         portal             saikumar970        vk1309
abhisheksp120    'Evaluator Codes.zip'   gauravggg21            pull.sh            saum7800           Yash-Kudesia
anushkayadav     fpevaluator1.py        KeerthanaPonnuru       __pycache__        script.py
codeit.sh         fpevaluator_old.py     MadasuVishwani         README.md          Utkichaps
aditya@aditya:~/SRIP-PORTAL$

```

Step 8: Most important step as you will be using this continuously, once you use codeit to get the github repo of the student inside his github handle, the repo is now forever with you and you never have to use codeit.sh again. Now this is where pull.sh comes into play. Any new commit by the same intern whose directory you already have you just need to run pull.sh

The pull.sh file is a script that takes in the handle directory as input and a second input as the commit id and hard resets it to that commit id. So basically all code is evaluated till that commit id.

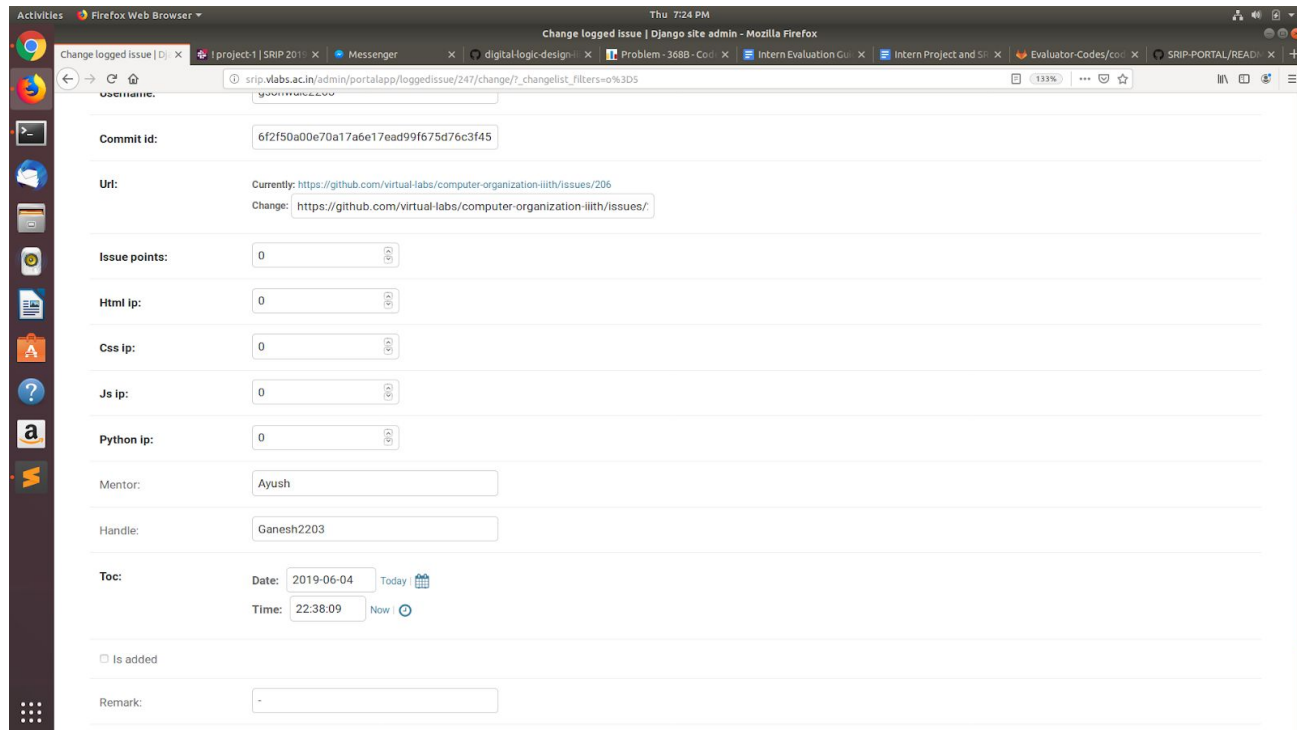
```

Activities Terminal
Thu 7:22 PM
aditya@aditya: ~/SRIP-PORTAL

abc.txt      'Evaluator Codes'      fpevaluator.py      portal      saikumar970      vk1309
abhisheksp120 'Evaluator Codes.zip'    gauravggg21         pull.sh      saum7800         Yash-Kudesia
anushkayadav  fpevaluator1.py         KeerthanaPonnuru    __pycache__  script.py        Utkichaps
codeit.sh     fpevaluator_old.py      MadasuVishwani      README.md
aditya@aditya:~/SRIP-PORTAL$ ./pull.sh Yash-Kudesia/ 1481c3b2f9e0a1048fbafc7888877a89567c0a44
Already up to date.
HEAD is now at 1481c3b Hover Dropdown
-----
JavaScript
724
Function Points: 10.342857142857143
Man_months: 0.8677626355646124
Man_hours: 138.842021690338
-----
HTML
1050
Function Points: 6.5625
Man_months: 0.46954780317608635
Man_hours: 75.12764850817382
-----
CSS
142
Function Points: 0.8875
Man_months: 0.03152561185331568
Man_hours: 5.044097896530508
-----
Total_function_points: 17.79285714285714
Total_man_hours: 219.0137680950423
Yash-Kudesia/
aditya@aditya:~/SRIP-PORTAL$

```

Step 8 : Take every function point from the output that will be shown when you run the file pull.sh and then click on user in the django admin page put it inside each respective box labelled html, css and js and then click on is added green tick should appear on the right and save it.



The screenshot shows a web browser window with the title 'Change logged issue | Django site admin - Mozilla Firefox'. The address bar shows the URL 'srip.vlabs.ac.in/admin/portalapp/loggedissue/247/change/?\_changelist\_filters=0%3D5'. The form contains the following fields:

- Commit id:** 6f2f50a00e70a17a6e17ead99f675d76c3f45
- Url:** Currently: <https://github.com/virtual-labs/computer-organization-iiith/issues/206>  
Change: <https://github.com/virtual-labs/computer-organization-iiith/issues/>
- Issue points:** 0
- Html ip:** 0
- Css ip:** 0
- Js ip:** 0
- Python ip:** 0
- Mentor:** Ayush
- Handle:** Ganesh2203
- To:** Date: 2019-06-04 (Today), Time: 22:38:09 (Now)
- ☐ Is added
- Remark:** -

**Step 9 :** There is a remark box, if you get a file not found error during codeit running then you can type in the remark box about what to improve or otherwise also to give feedback about any improvement in the code if required.

**Important: Step 10:** The most important step to note is that the directory structure is extremely crucial as we have hardcoded this directory structure. So all code has to be put in Codes folder and all Libraries inside Libraries folder.

## Completion of the Experiment

Step 1: If the intern mentions that they have completed their experiment, then, first ask them the following questions:

1. Did you followed the coding standards?
2. Have you done static code analysis test, with the tools which we have suggested in coding standards?
3. Did you submitted all the commit ids in SRIP scoreboard portal?
4. Did you document ?

Step 2: If the answer to the above is no, then the mentors have to give the following instructions:

1. Code clean-up for coding standards, modularity including running against codacy, JLint and W3C validators
2. Please write test cases
3. Please write Documentation
4. 4. Submit all the commit id's in SRIP scoreboard portal

Step 3: After that, please verify if the above are done correctly. Once, the changes are done to the mentor's satisfaction, then please log an issue to "Create dynamic quiz for every experiment". The quiz questions and choices have to come from DB/JSON and the order/count should be randomized. The answers should be displayed only on submission. For experiments that do not have quiz - please have them create quiz with support from mentor.

Step 4: If this work is also done, the interns need to support other interns doing conversions of the lab, before their next experiments are assigned