

Test Compliance Report

Online Class Management System

Team - Peace

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Compliance Report Generated by the manage.py test utility:

```
$ python3 manage.py test --verbosity=2 base classroom comments  
contactus courses ide newsletter posts users whiteboard assignments
```

```
$ coverage run --include='.*' manage.py test  
$ coverage report
```

The apps: base classroom comments contactus courses ide newsletter posts users whiteboard assignments are tested using the django.test module.

The compliance report generated by the same is pasted below. A total of **81 tests** were run and all of them passed successfully with an '**ok**' remark from the utility.

We then run `coverage` utility to find the percentage of the code covered by our tests, we have achieved **76%** code coverage by our tests, (the target and acceptance criteria being **70%**).

```
Operations to perform:
```

```
  Synchronize unmigrated apps: crispy_forms, messages, staticfiles,  
  widget_tweaks
```

```
  Apply all migrations: admin, auth, base, classroom, comments, contactus,  
  contenttypes, courses, newsletter, openforms, posts, sessions, users
```

```
Synchronizing apps without migrations:
```

```
  Creating tables...
```

```
  Running deferred SQL...
```

```
Running migrations:
```

```
  Applying contenttypes.0001_initial... OK
```

```
  Applying auth.0001_initial... OK
```

```
  Applying admin.0001_initial... OK
```

```
  Applying admin.0002_logentry_remove_auto_add... OK
```

```
  Applying admin.0003_logentry_add_action_flag_choices... OK
```

```
  Applying contenttypes.0002_remove_content_type_name... OK
```

```
  Applying auth.0002_alter_permission_name_max_length... OK
```

```
  Applying auth.0003_alter_user_email_max_length... OK
```

```
  Applying auth.0004_alter_user_username_opts... OK
```

```
  Applying auth.0005_alter_user_last_login_null... OK
```

```
  Applying auth.0006_require_contenttypes_0002... OK
```

```
Applying auth.0007_alter_validators_add_error_messages... OK

Applying auth.0008_alter_user_username_max_length... OK

Applying auth.0009_alter_user_last_name_max_length... OK

Applying auth.0010_alter_group_name_max_length... OK

Applying auth.0011_update_proxy_permissions... OK

Applying auth.0012_alter_user_first_name_max_length... OK

Applying base.0001_initial... OK

Applying classroom.0001_initial... OK

Applying classroom.0002_auto_20201118_1003... OK

Applying classroom.0003_classroom_time_slot... OK

Applying classroom.0004_auto_20220328_1648... OK

Applying classroom.0005_auto_20220328_1702... OK

Applying classroom.0006_auto_20220328_1706... OK

Applying classroom.0007_auto_20220328_1716... OK

Applying classroom.0008_auto_20220328_1719... OK

Applying posts.0001_initial... OK

Applying posts.0002_assignmentfile_submittedassignment... OK

Applying posts.0003_auto_20201119_1923... OK

Applying posts.0004_assignment_due_date... OK
```

```
Applying comments.0001_initial... OK

Applying comments.0002_auto_20201126_1549... OK

Applying comments.0003_comment_created_at... OK

Applying comments.0004_privatecomment... OK

Applying contactus.0001_initial... OK

Applying courses.0001_initial... OK

Applying courses.0002_auto_20201127_1653... OK

Applying courses.0003_auto_20201127_1719... OK

Applying courses.0004_course_created_by... OK

Applying courses.0005_auto_20201128_0451... OK

Applying courses.0006_auto_20201128_1044... OK

Applying newsletter.0001_initial... OK

Applying newsletter.0002_auto_20201129_0933... OK

Applying openforms.0001_initial... OK

Applying posts.0005_auto_20201127_2129... OK

Applying sessions.0001_initial... OK

Applying users.0001_initial... OK

Applying users.0002_auto_20201118_1003... OK

System check identified no issues (0 silenced).
```

```
Creating test database for alias 'default'  
('file:memorydb_default?mode=memory&cache=shared')...  
  
test_lobby_GET (base.tests.test_views.TestViews) ... ok  
  
test_room_GET (base.tests.test_views.TestViews) ... ok  
  
test_class_create (classroom.tests.test_forms.Test_forms) ... ok  
  
test_join_class (classroom.tests.test_forms.Test_forms) ... ok  
  
test_ass_create_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_ass_submit_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_class_members_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_create_class_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_cw_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_delete_class_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_home_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_join_class_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_open_classroom_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_redir_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_stu_work_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_todo_GET (classroom.tests.tests_views.TestViews) ... ok  
  
test_toreview_GET (classroom.tests.tests_views.TestViews) ... ok
```

```
test_turnin_GET (classroom.tests.tests_views.TestViews) ... ok

test_unsub_f_GET (classroom.tests.tests_views.TestViews) ... ok

test_unsubmit_GET (classroom.tests.tests_views.TestViews) ... ok

test_create (comments.tests.test_forms.Test_forms) ... ok

test_private (comments.tests.test_forms.Test_forms) ... ok

test_comment_GET (comments.tests.tests_views.TestViews) ... ok

test_private_comment_GET (comments.tests.tests_views.TestViews) ... ok

test_form (contactus.tests.test_forms.Testing) ... ok

test_contact_GET (contactus.tests.tests_views.TestViews) ... ok

test_update (courses.tests.test_forms.Test_forms) ... ok

test_course_create_get (courses.tests.tests_views.TestViews) ... ok

test_course_list_get (courses.tests.tests_views.TestViews) ... ok

test_delete_course_GET (courses.tests.tests_views.TestViews) ... ok

test_update_course_GET (courses.tests.tests_views.TestViews) ... ok

test_ide_GET (ide.tests.tests_views.TestViews) ... ok

test_subscribeform (newsletter.tests.test_forms.TestForms) ... ok

test_subscribe_url_isresolved (newsletter.tests.test_urls.TestUrls) ... ok

test_sub_GET (newsletter.tests.tests_views.TestViews) ... ok

test_turnin_url_isresolved (posts.tests.test_urls.TestUrls) ... ok
```

```
test_whiteboard_GET (posts.tests.tests_views.TestViews) ... ok

test_profile_update_form (users.tests.test_forms.Testforms) ... ok

test_user_reg_form (users.tests.test_forms.Testforms) ... ok

test_user_update_form (users.tests.test_forms.Testforms) ... ok

test_live_GET (users.tests.tests_views.TestViews) ... ok

test_whiteboard_GET (users.tests.tests_views.TestViews) ... ok

test_live_GET (whiteboard.tests.tests_views.TestViews) ... ok

test_whiteboard_GET (whiteboard.tests.tests_views.TestViews) ... ok

test_grade_GET (assignments.tests.tests_views.TestViews) ... ok

test_view_grades_GET (assignments.tests.tests_views.TestViews) ... ok

test_create_class_url_isresolved (base.tests.test_urls.TestUrls) ... ok

test_delete_class_url_isresolved (base.tests.test_urls.TestUrls) ... ok

test_home_url_isresolved (base.tests.test_urls.TestUrls) ... ok

test_join_class_url_isresolved (base.tests.test_urls.TestUrls) ... ok

test_open_class_url_isresolved (base.tests.test_urls.TestUrls) ... ok

test_redir_url_isresolved (base.tests.test_urls.TestUrls) ... ok

test_ass_create_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_ass_submit_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_classwork_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok
```

```
test_create_class_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_delete_class_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_home_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_join_class_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_member_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_open_class_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_stu_work_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_todo_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_toreview_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_turnin_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_unsubmit_url_isresolved (classroom.tests.test_urls.TestUrls) ... ok

test_create_url_isresolved (comments.tests.test_urls.TestUrls) ... ok

test_list_url_isresolved (comments.tests.test_urls.TestUrls) ... ok

test_list_url_isresolved (contactus.tests.test_urls.TestUrls) ... ok

test_create_url_isresolved (courses.tests.test_urls.TestUrls) ... ok

test_delete_url_isresolved (courses.tests.test_urls.TestUrls) ... ok

test_list_url_isresolved (courses.tests.test_urls.TestUrls) ... ok

test_update_url_isresolved (courses.tests.test_urls.TestUrls) ... ok

test_ide_url_isresolved (ide.tests.test_urls.TestUrls) ... ok
```

```
test_problems_url_isresolved (ide.tests.test_urls.TestUrls) ... ok

test_profile_url_isresolved (users.tests.test_urls.TestUrls) ... ok

test_register_url_isresolved (users.tests.test_urls.TestUrls) ... ok

test_liveboard_url_isresolved (whiteboard.tests.test_urls.TestUrls) ... ok

test_whiteboard_url_isresolved (whiteboard.tests.test_urls.TestUrls) ... ok

test_assignment_url_isresolved (assignments.tests.test_urls.TestUrls) ... ok

test_home_url_isresolved (assignments.tests.test_urls.TestUrls) ... ok
```

Ran 81 tests in 0.364s

OK

Name	Cover	Stmts	Miss

assignments/__init__.py	100%	0	0
assignments/admin.py	100%	1	0
assignments/forms.py	100%	4	0
assignments/migrations/__init__.py	100%	0	0
assignments/models.py	100%	1	0
assignments/tests/__init__.py		0	0

100%		
assignments/tests/test_forms.py	0	0
100%		
assignments/tests/test_model.py	0	0
100%		
assignments/tests/test_urls.py	12	0
100%		
assignments/tests/tests_views.py	11	0
100%		
assignments/urls.py	4	0
100%		
assignments/views.py	27	17
37%		
base/__init__.py	0	0
100%		
base/admin.py	1	0
100%		
base/migrations/0001_initial.py	5	0
100%		
base/migrations/__init__.py	0	0
100%		
base/models.py	8	1
88%		
base/tests/__init__.py	0	0
100%		
base/tests/test_urls.py	24	0
100%		
base/tests/test_views.py	11	0
100%		
base/urls.py	4	0
100%		
base/views.py	40	22
45%		
classroom/__init__.py	0	0
100%		
classroom/admin.py	5	0
100%		
classroom/forms.py	31	7
77%		
classroom/migrations/0001_initial.py	8	0
100%		
classroom/migrations/0002_auto_20201118_1003.py	6	0
100%		
classroom/migrations/0003_classroom_time_slot.py	4	0
100%		
classroom/migrations/0004_auto_20220328_1648.py	4	0
100%		
classroom/migrations/0005_auto_20220328_1702.py	4	0

100%		
classroom/migrations/0006_auto_20220328_1706.py	4	0
100%		
classroom/migrations/0007_auto_20220328_1716.py	4	0
100%		
classroom/migrations/0008_auto_20220328_1719.py	4	0
100%		
classroom/migrations/__init__.py	0	0
100%		
classroom/models.py	24	3
88%		
classroom/tests/__init__.py	0	0
100%		
classroom/tests/test_forms.py	9	0
100%		
classroom/tests/test_model.py	0	0
100%		
classroom/tests/test_urls.py	48	0
100%		
classroom/tests/tests_views.py	67	0
100%		
classroom/urls.py	4	0
100%		
classroom/views.py	185	145
22%		
comments/__init__.py	0	0
100%		
comments/admin.py	4	0
100%		
comments/forms.py	5	0
100%		
comments/migrations/0001_initial.py	7	0
100%		
comments/migrations/0002_auto_20201126_1549.py	5	0
100%		
comments/migrations/0003_comment_created_at.py	5	0
100%		
comments/migrations/0004_privatecomment.py	7	0
100%		
comments/migrations/__init__.py	0	0
100%		
comments/models.py	18	2
89%		
comments/tests/__init__.py	0	0
100%		
comments/tests/test_forms.py	10	0
100%		
comments/tests/test_model.py	0	0

100%		
comments/tests/test_urls.py	12	0
100%		
comments/tests/tests_views.py	11	0
100%		
comments/urls.py	4	0
100%		
comments/views.py	24	14
42%		
contactus/__init__.py	0	0
100%		
contactus/admin.py	3	0
100%		
contactus/forms.py	7	0
100%		
contactus/migrations/0001_initial.py	6	0
100%		
contactus/migrations/__init__.py	0	0
100%		
contactus/models.py	10	1
90%		
contactus/tests/__init__.py	0	0
100%		
contactus/tests/test_forms.py	6	0
100%		
contactus/tests/test_model.py	0	0
100%		
contactus/tests/test_urls.py	9	0
100%		
contactus/tests/tests_views.py	7	0
100%		
contactus/urls.py	4	0
100%		
contactus/views.py	9	4
56%		
core/__init__.py	0	0
100%		
core/settings.py	33	0
100%		
core/urls.py	9	0
100%		
core/views.py	20	11
45%		
courses/__init__.py	0	0
100%		
courses/admin.py	4	0
100%		
courses/forms.py	11	0

100%		
courses/migrations/0001_initial.py	7	0
100%		
courses/migrations/0002_auto_20201127_1653.py	4	0
100%		
courses/migrations/0003_auto_20201127_1719.py	4	0
100%		
courses/migrations/0004_course_created_by.py	6	0
100%		
courses/migrations/0005_auto_20201128_0451.py	4	0
100%		
courses/migrations/0006_auto_20201128_1044.py	4	0
100%		
courses/migrations/__init__.py	0	0
100%		
courses/models.py	19	6
68%		
courses/tests/__init__.py	0	0
100%		
courses/tests/test_forms.py	7	0
100%		
courses/tests/test_model.py	0	0
100%		
courses/tests/test_urls.py	21	0
100%		
courses/tests/tests_views.py	22	0
100%		
courses/urls.py	4	0
100%		
courses/views.py	39	25
36%		
ide/__init__.py	0	0
100%		
ide/admin.py	1	0
100%		
ide/migrations/__init__.py	0	0
100%		
ide/models.py	1	0
100%		
ide/tests/__init__.py	0	0
100%		
ide/tests/test_model.py	0	0
100%		
ide/tests/test_urls.py	11	0
100%		
ide/tests/tests_views.py	10	0
100%		
ide/urls.py	4	0

100%		
ide/views.py	7	2
71%		
manage.py	12	2
83%		
newsletter/__init__.py	0	0
100%		
newsletter/admin.py	3	0
100%		
newsletter/forms.py	3	0
100%		
newsletter/migrations/0001_initial.py	6	0
100%		
newsletter/migrations/0002_auto_20201129_0933.py	4	0
100%		
newsletter/migrations/__init__.py	0	0
100%		
newsletter/models.py	7	1
86%		
newsletter/tests/__init__.py	0	0
100%		
newsletter/tests/test_forms.py	5	0
100%		
newsletter/tests/test_model.py	0	0
100%		
newsletter/tests/test_urls.py	8	0
100%		
newsletter/tests/tests_views.py	10	0
100%		
newsletter/urls.py	4	0
100%		
newsletter/views.py	9	5
44%		
openforms/__init__.py	0	0
100%		
openforms/admin.py	8	0
100%		
openforms/migrations/0001_initial.py	9	0
100%		
openforms/migrations/__init__.py	0	0
100%		
openforms/models.py	38	2
95%		
openforms/tests.py	1	0
100%		
posts/__init__.py	0	0
100%		
posts/admin.py	8	0

100%		
posts/migrations/0001_initial.py	8	0
100%		
posts/migrations/0002_assignmentfile_submittedassignment.py	6	0
100%		
posts/migrations/0003_auto_20201119_1923.py	4	0
100%		
posts/migrations/0004_assignment_due_date.py	5	0
100%		
posts/migrations/0005_auto_20201127_2129.py	4	0
100%		
posts/migrations/__init__.py	0	0
100%		
posts/models.py	91	25
73%		
posts/tests/__init__.py	0	0
100%		
posts/tests/test_model.py	0	0
100%		
posts/tests/test_urls.py	12	0
100%		
posts/tests/tests_views.py	7	0
100%		
posts/urls.py	4	0
100%		
posts/views.py	21	12
43%		
users/__init__.py	0	0
100%		
users/admin.py	3	0
100%		
users/forms.py	18	0
100%		
users/migrations/0001_initial.py	7	0
100%		
users/migrations/0002_auto_20201118_1003.py	4	0
100%		
users/migrations/__init__.py	0	0
100%		
users/models.py	16	7
56%		
users/tests/__init__.py	0	0
100%		
users/tests/test_forms.py	12	0
100%		
users/tests/test_model.py	0	0
100%		
users/tests/test_urls.py	11	0

100%		
users/tests/tests_views.py	11	0
100%		
users/urls.py	6	0
100%		
users/views.py	36	25
31%		
whiteboard/__init__.py	0	0
100%		
whiteboard/admin.py	1	0
100%		
whiteboard/migrations/__init__.py	0	0
100%		
whiteboard/models.py	1	0
100%		
whiteboard/tests/__init__.py	0	0
100%		
whiteboard/tests/test_model.py	0	0
100%		
whiteboard/tests/test_urls.py	10	0
100%		
whiteboard/tests/tests_views.py	14	0
100%		
whiteboard/urls.py	4	0
100%		
whiteboard/views.py	10	4
60%		

TOTAL	1450	343
76%		

GUI Testing:

[NOTE: The captions explain the working of the GUI as well as compliance, hence no other description has been added.]

The GUI of the web-app was tested (acceptance testing) and the below test cases were (successfully) run and documented. All results were as expected.

1. The Landing Page

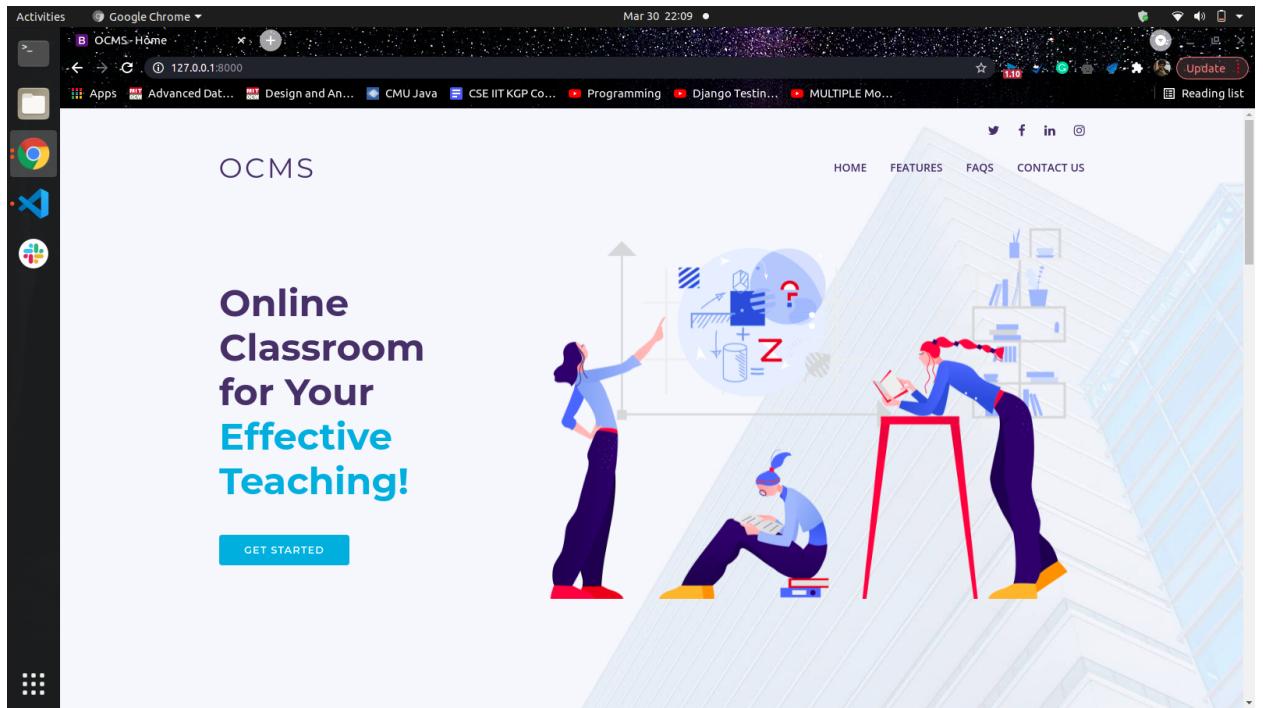
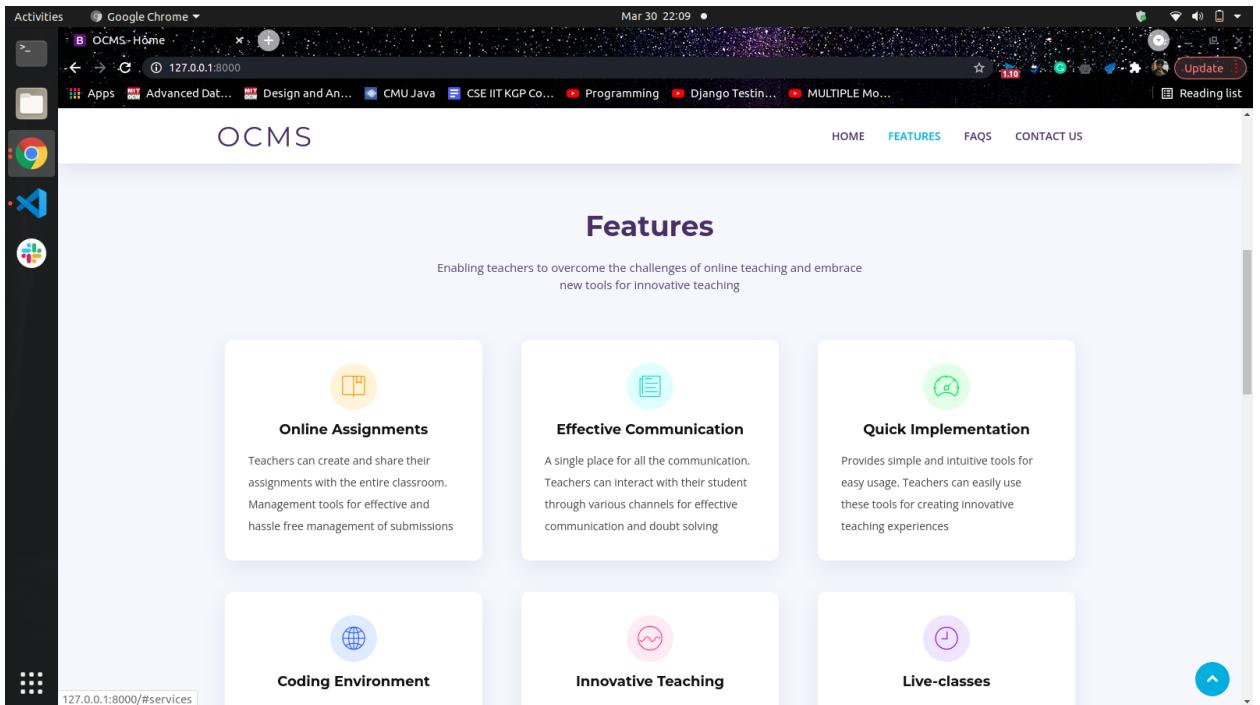


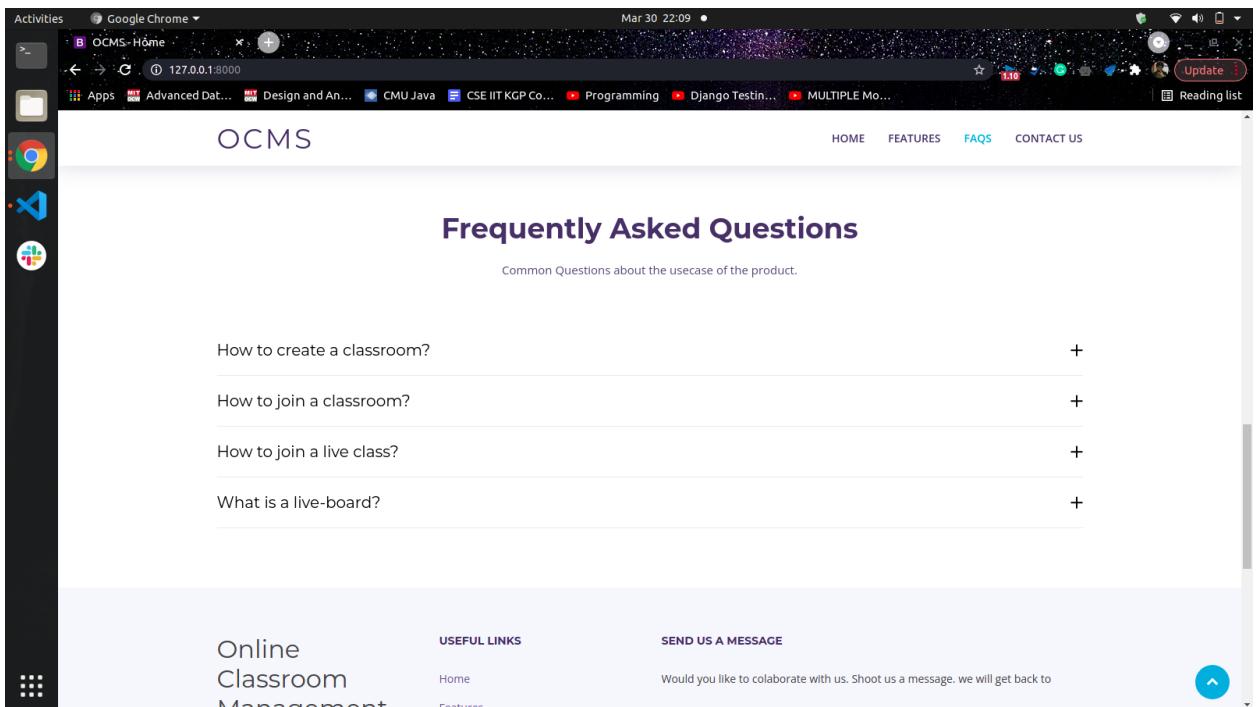
Figure-1



The screenshot shows the 'Features' section of the OCMS website. The title 'Features' is centered at the top. Below it is a subtitle: 'Enabling teachers to overcome the challenges of online teaching and embrace new tools for innovative teaching'. The page is divided into six sections, each with an icon and a brief description:

- Online Assignments**: Teachers can create and share their assignments with the entire classroom. Management tools for effective and hassle free management of submissions.
- Effective Communication**: A single place for all the communication. Teachers can interact with their student through various channels for effective communication and doubt solving.
- Quick Implementation**: Provides simple and intuitive tools for easy usage. Teachers can easily use these tools for creating innovative teaching experiences.
- Coding Environment**
- Innovative Teaching**
- Live-classes**

Figure-2 (Features)



The screenshot shows the 'Frequently Asked Questions' section of the OCMS website. The title 'Frequently Asked Questions' is centered at the top. Below it is a subtitle: 'Common Questions about the usecase of the product.' There are four expandable questions listed:

- How to create a classroom?
- How to join a classroom?
- How to join a live class?
- What is a live-board?

At the bottom of the page, there is a footer with links to 'Online Classroom Management', 'USEFUL LINKS' (Home, Features), and 'SEND US A MESSAGE'. A message box states: 'Would you like to collaborate with us. Shoot us a message. we will get back to you.'

Figure-3 (FAQs)

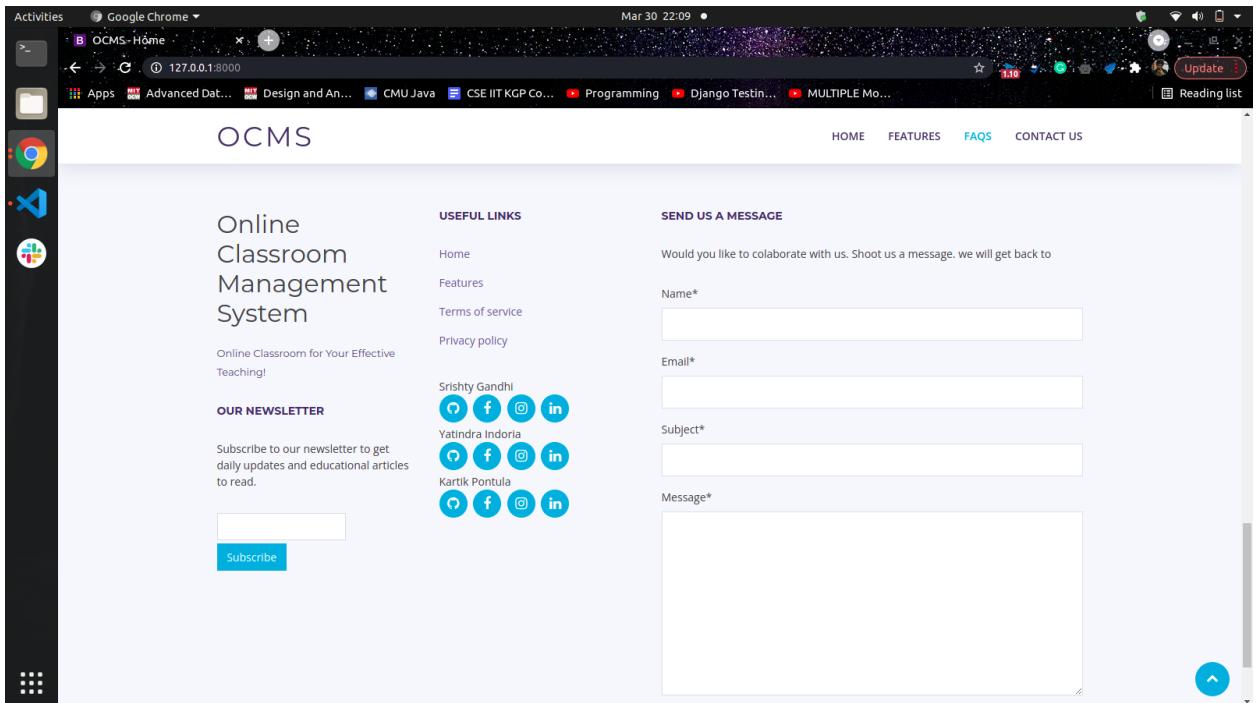


Figure-4 (Contact Us)

- The **HOME**, **FEATURES**, **FAQS** and **CONTACT US** options on the navigation bar of the landing page (Figure-1, 2, 3 and 4) take you to the respective sections as illustrated in Figures 1, 2, 3 and 4.
- When not logged in, the '**Get Started**' button takes you to the log-in screen (Figure-5).

Figure-5 (Log-in screen)

- If you go to the '**Create an Account**' option, you can see the sign-up form (Figure-6 and 7).

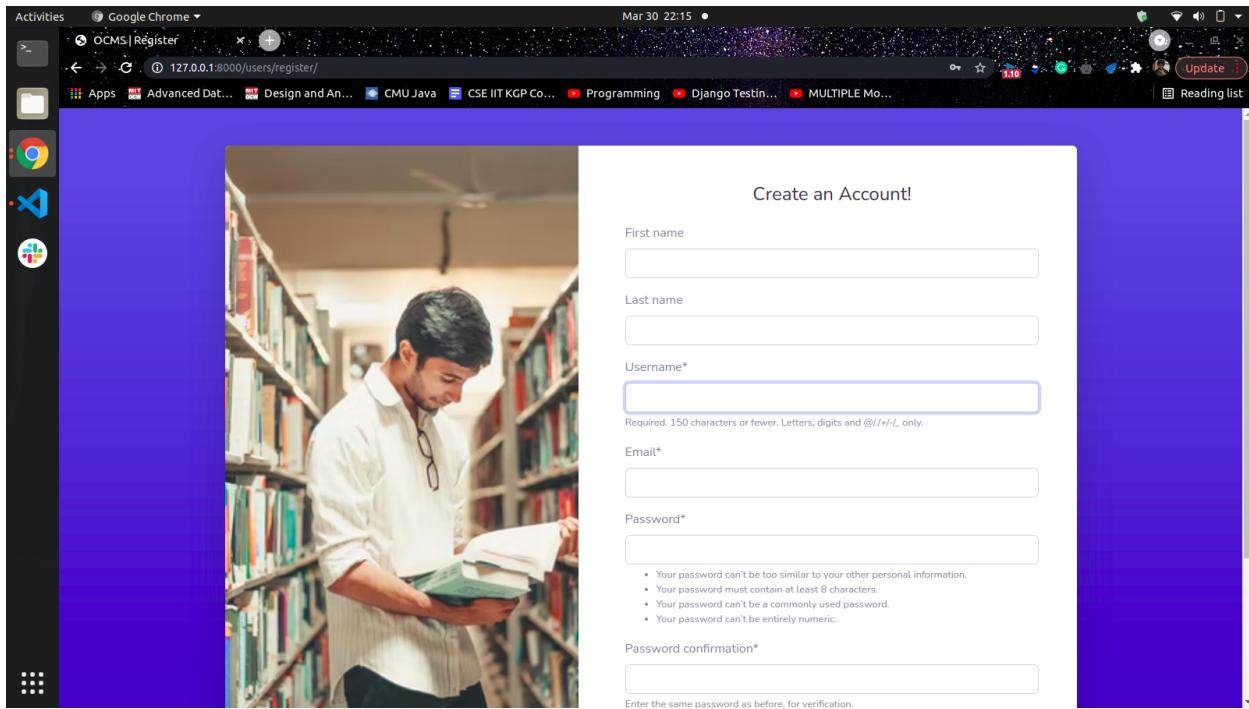


Figure-6 (Sign-up form)

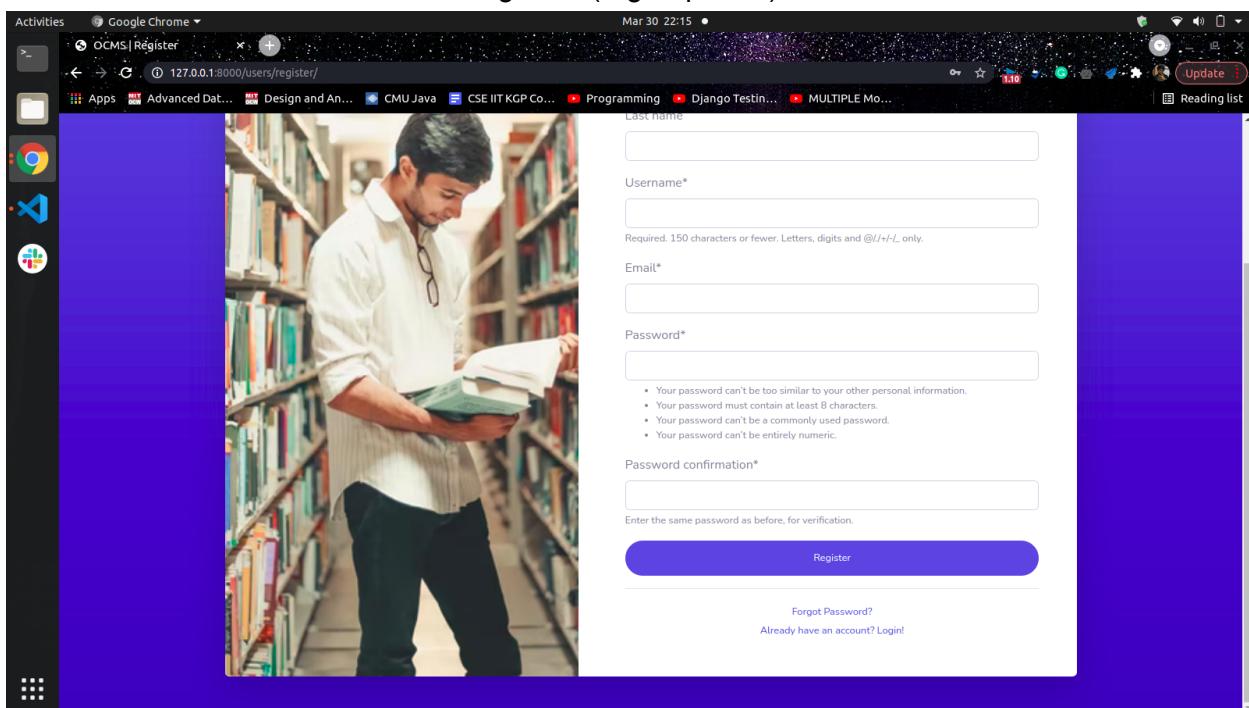


Figure-7 (Sign-up form)

2. Post Log-In screen, classroom

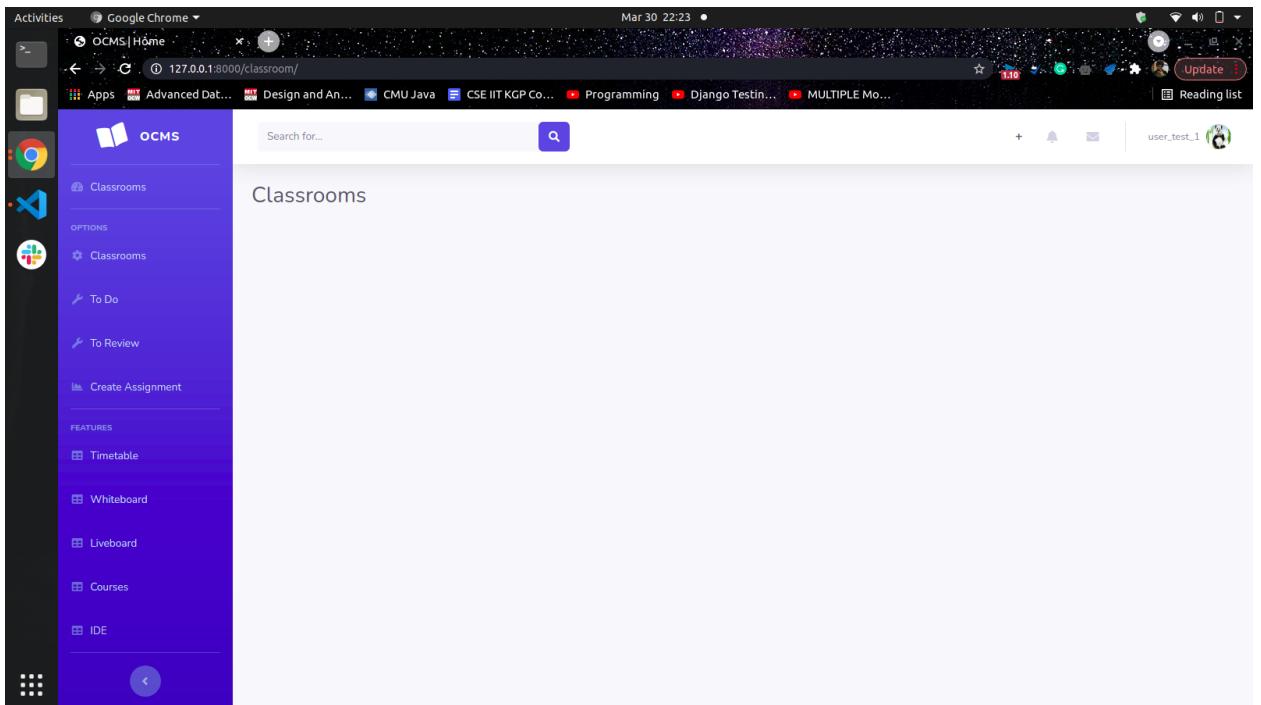


Figure-8 (Log-in screen)

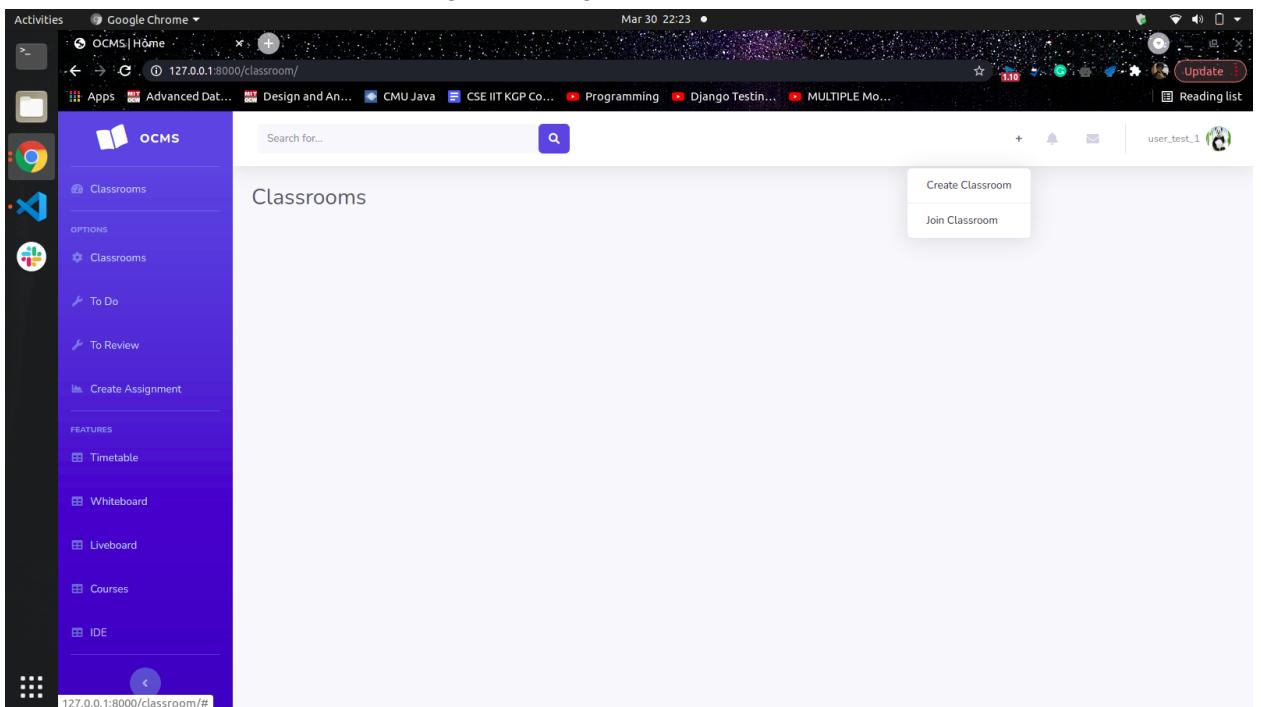


Figure-9 (Create and Join Class Dropdown)

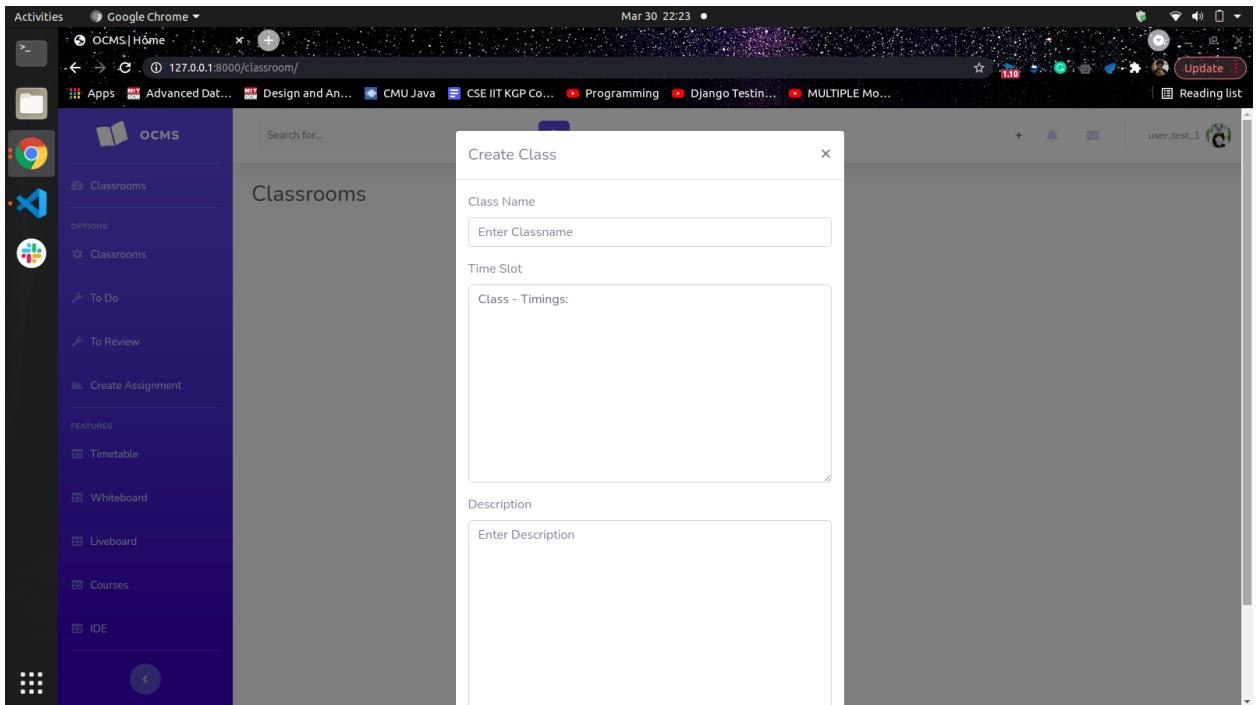


Figure-10 (Empty Create Class Form)

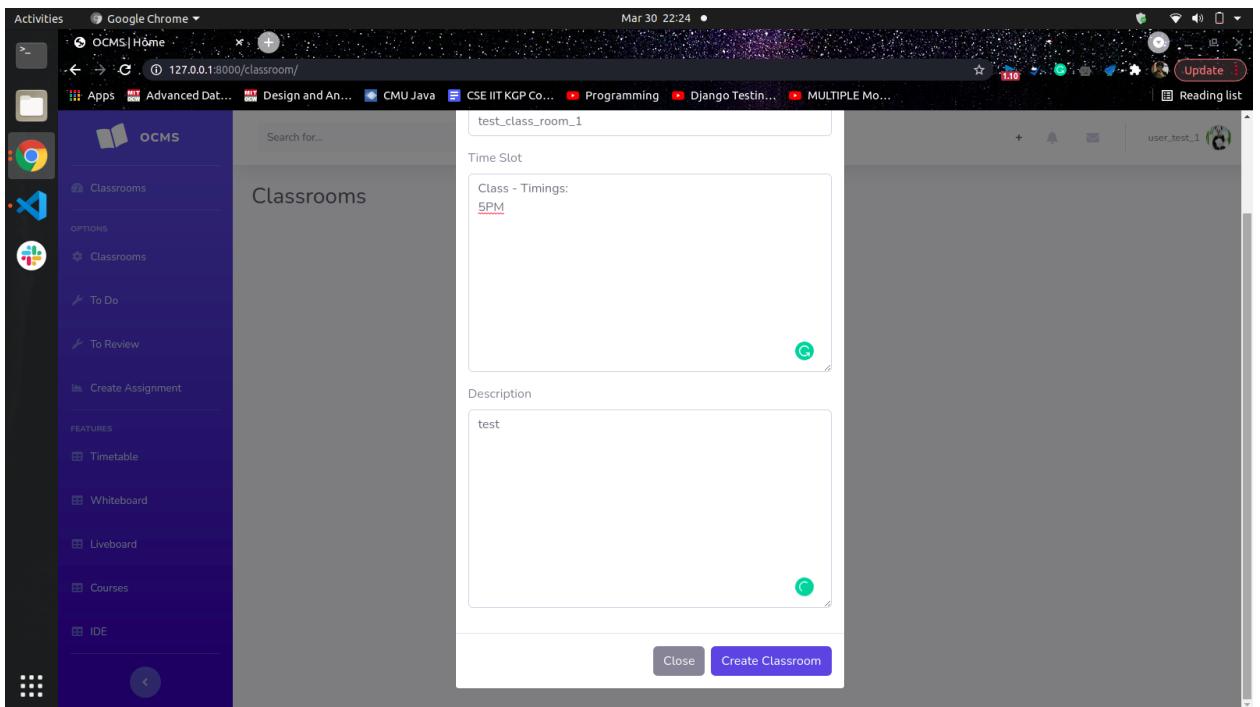


Figure-11 (Filling the Create Class Form)

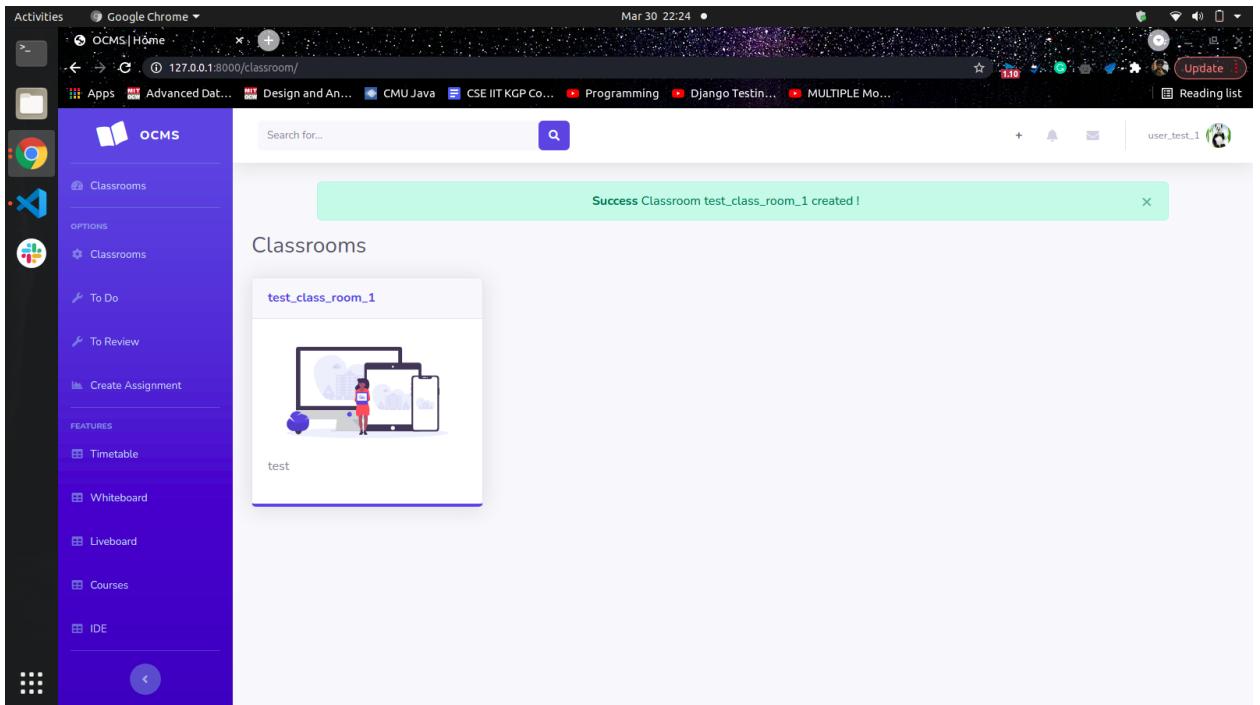


Figure-12 (Class Created)

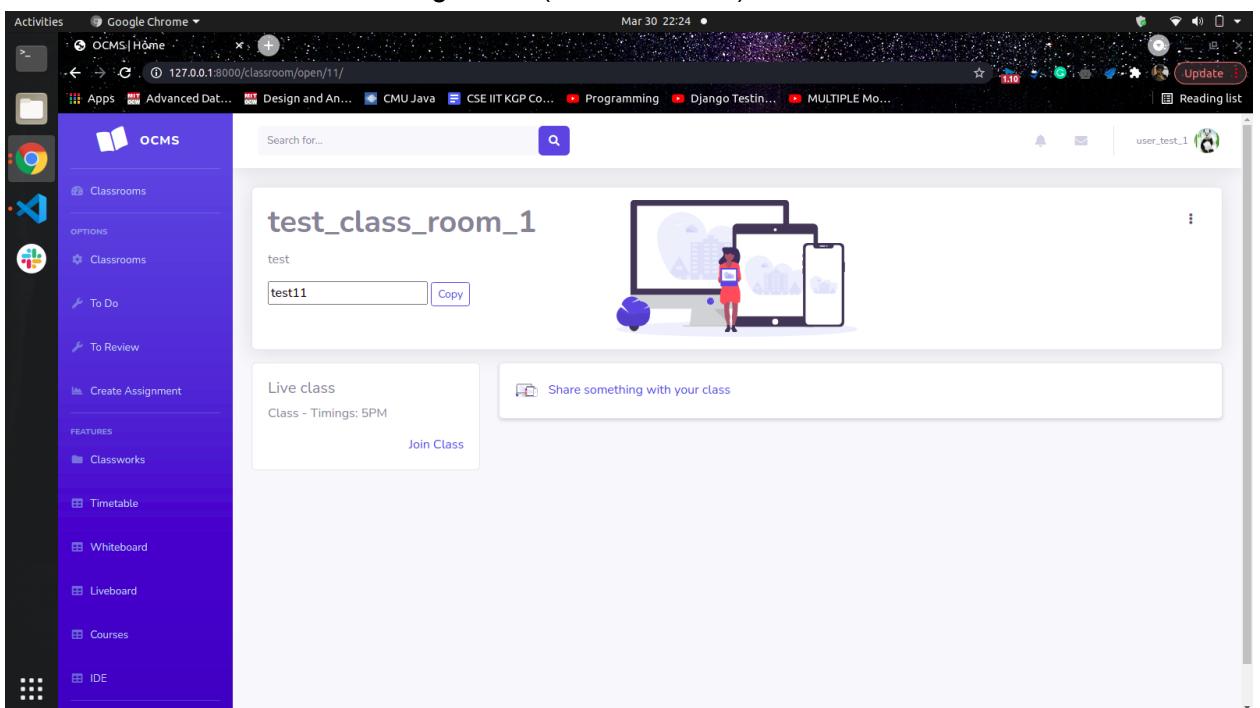


Figure-13 (Inside the Classroom)

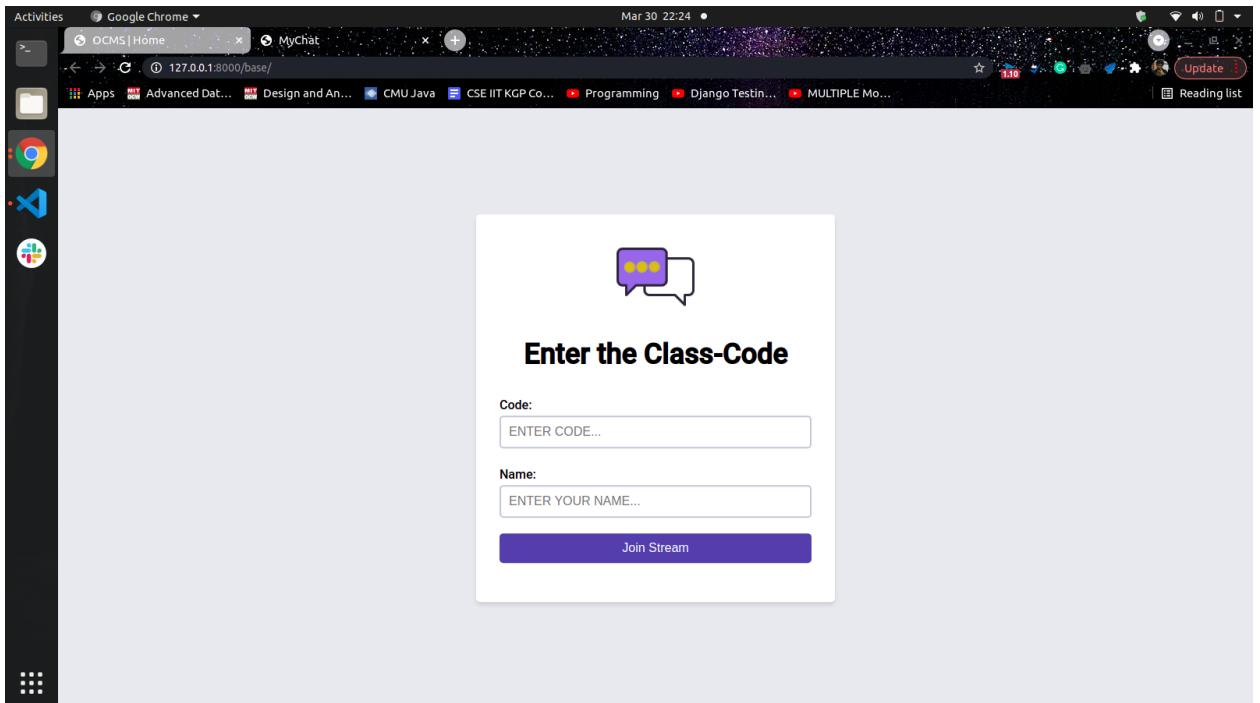


Figure-14 (Clicking the ‘Join Class’ option)

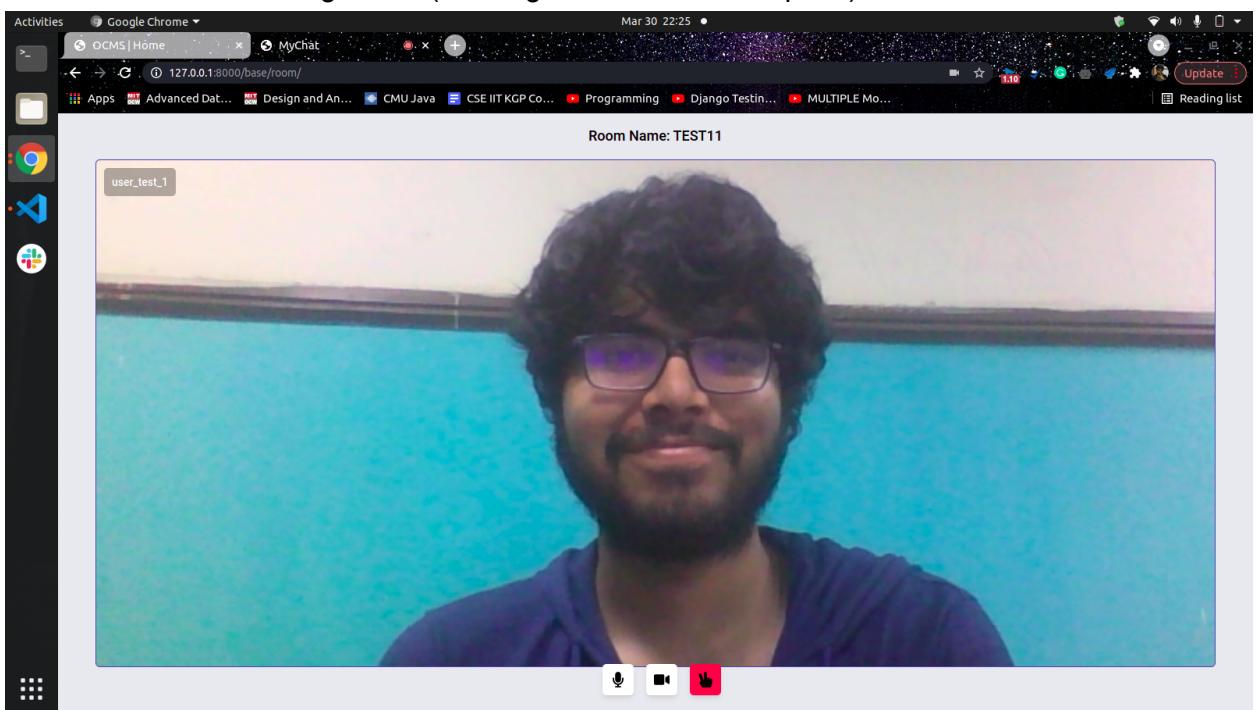


Figure-15 (Video call on the class call-room)

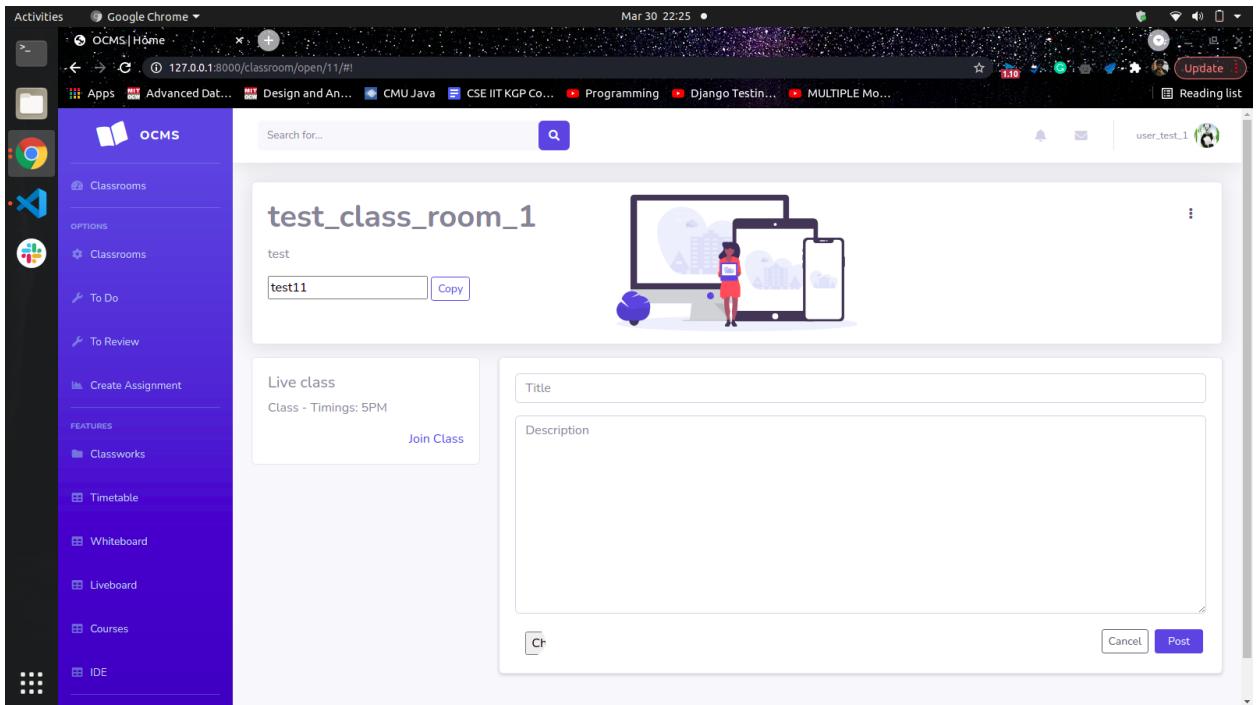


Figure-16 (Creating post using ‘Share something with your class option’)

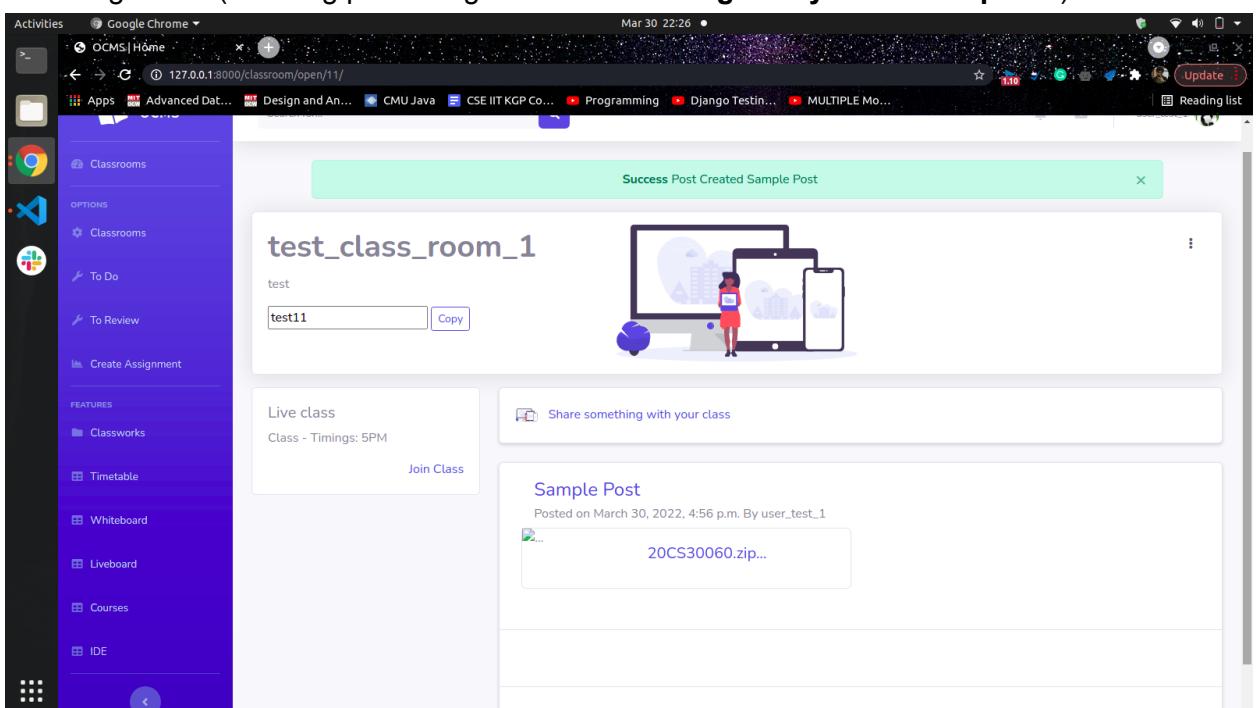


Figure-17 (Post made)

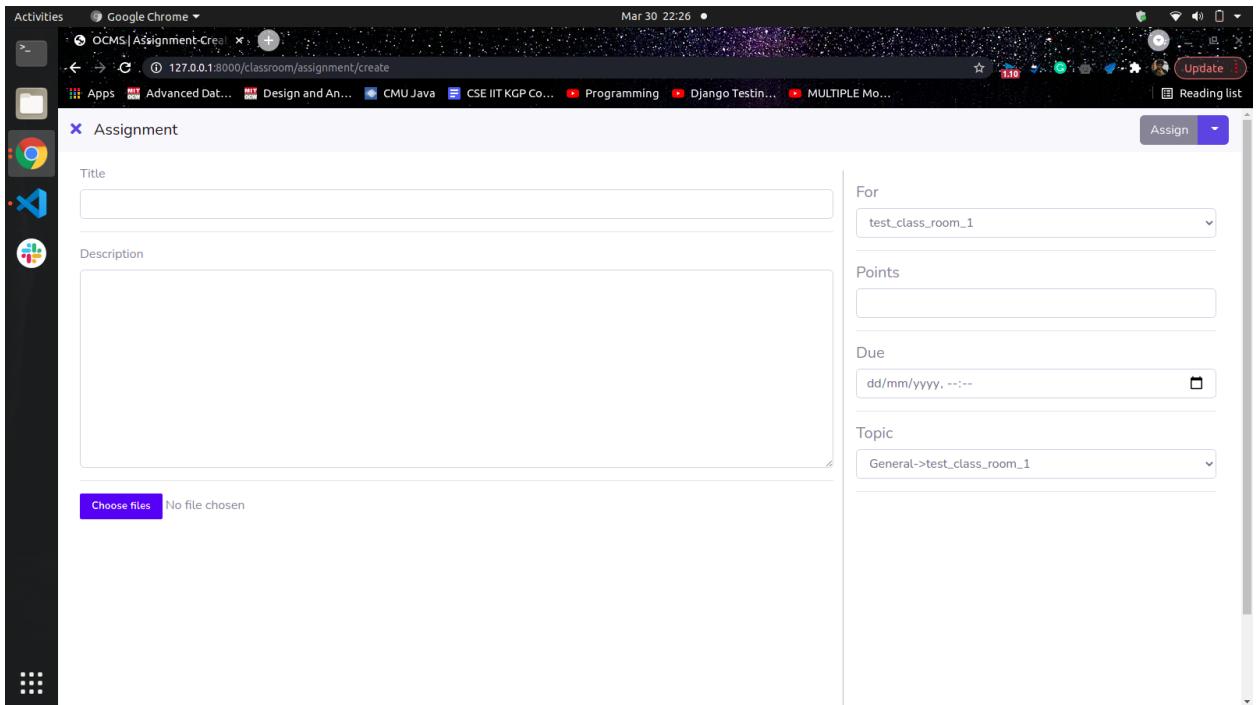


Figure-18 (Create Assignment functionality)

A screenshot of the OCMS Classroom view. The sidebar shows "Classrooms" selected. The main area displays a classroom named "test_class_room_1". Inside, there's a "test" section with a text input field containing "test11" and a "Copy" button. Below it is a "Live class" section with "Class - Timings: 5PM" and a "Join Class" button. To the right is a "Share something with your class" section featuring a person icon on a screen. Further down are sections for "test_ass" (a post from March 30, 2022, with a link to "20CS30060.zip...") and "Sample Post" (another post from March 30, 2022, with a link to "20CS30060.zip...").

Figure-19 (Assignment created)

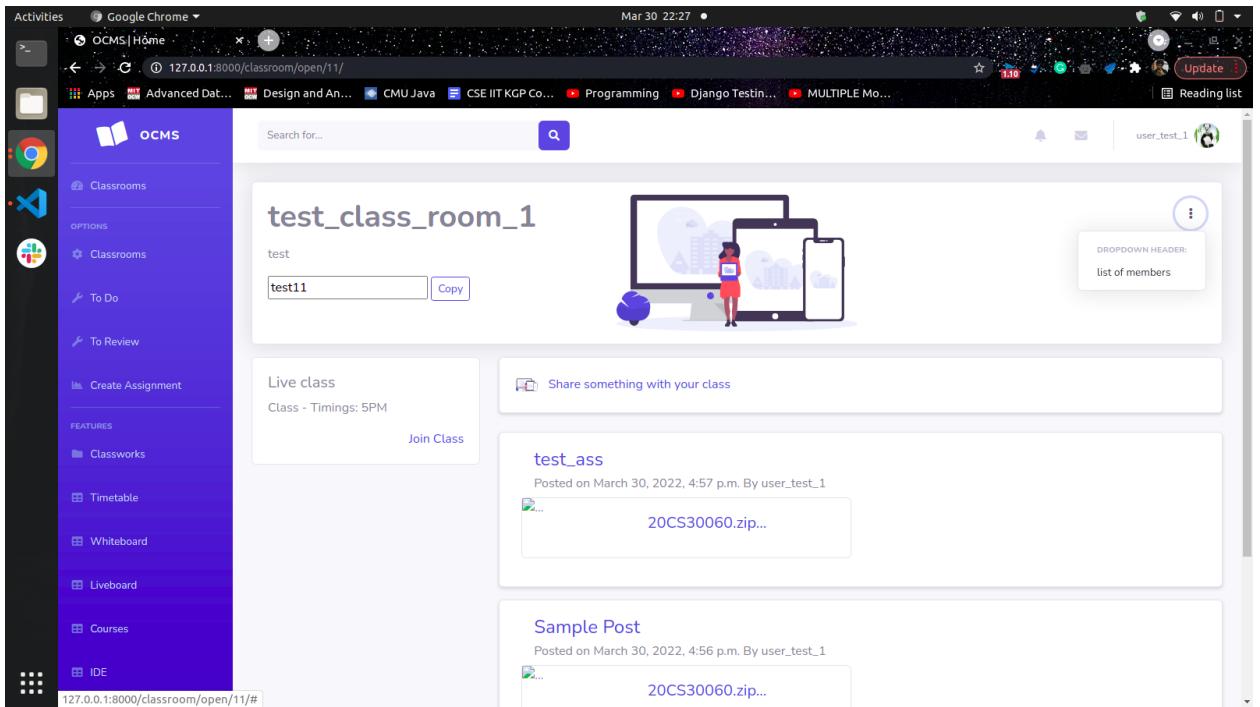


Figure-20 (List of class members drop-down)

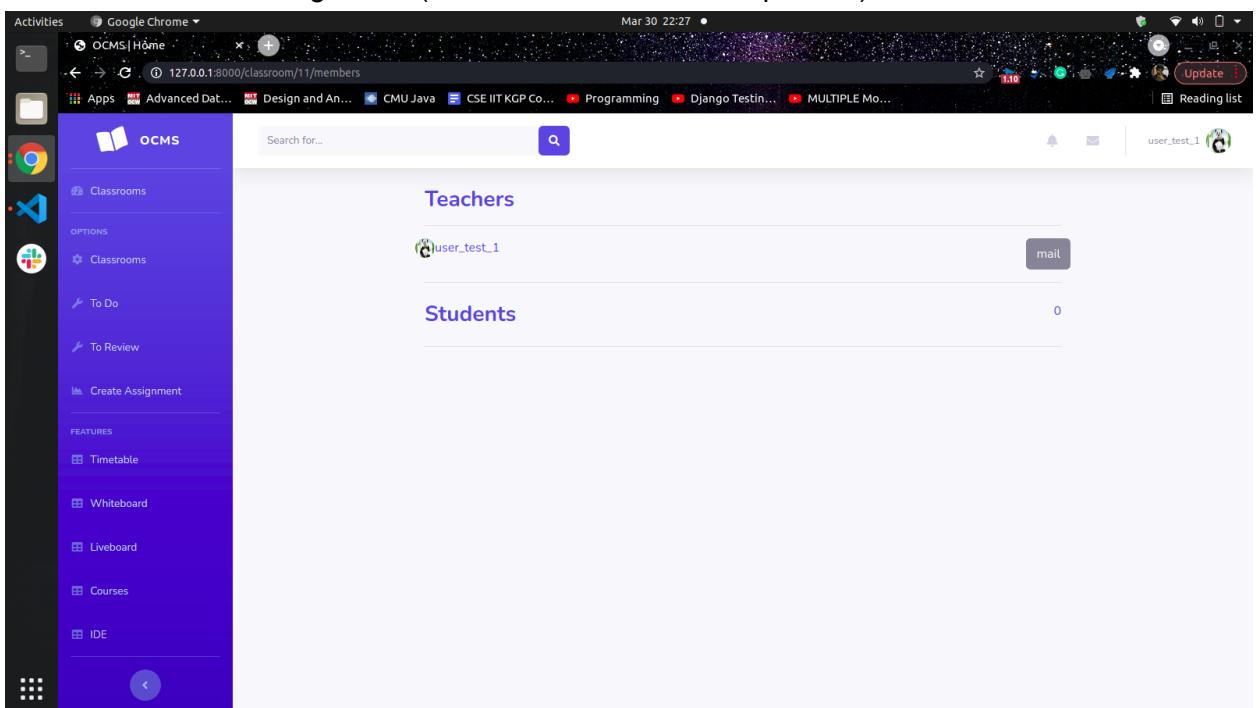


Figure-21 (List of members at the moment (only the teacher))

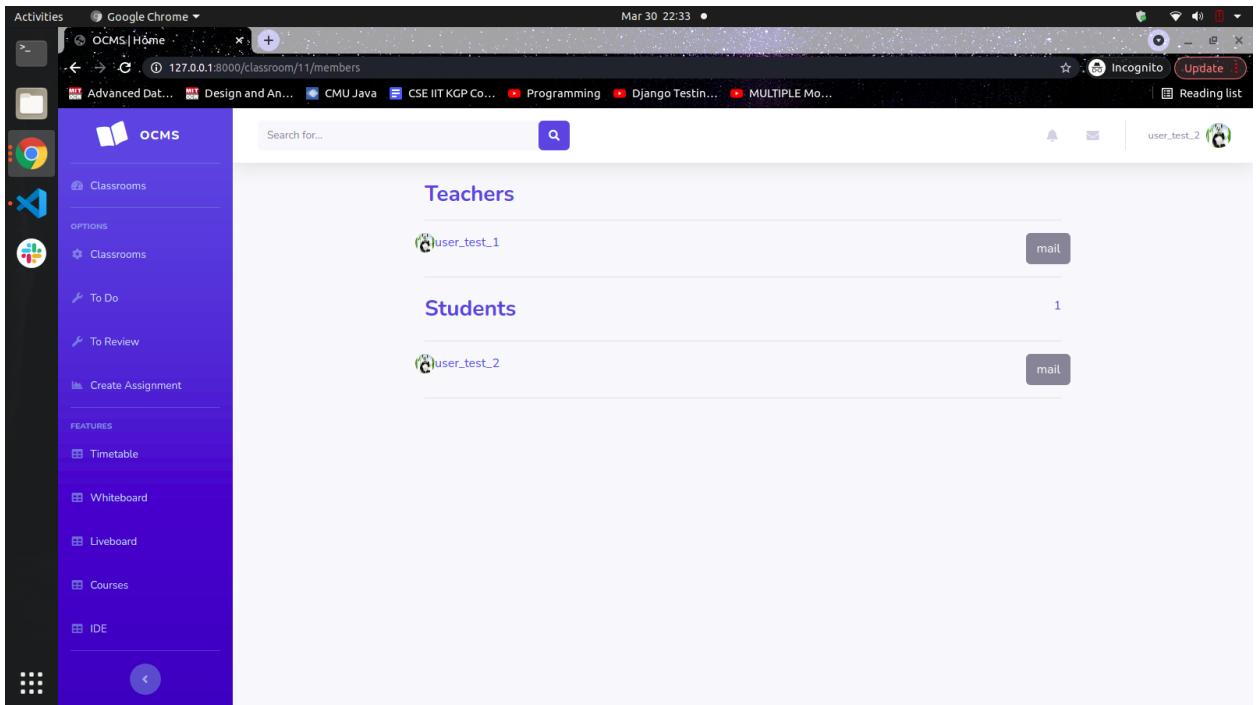


Figure-22 (List of members later (after adding the student))

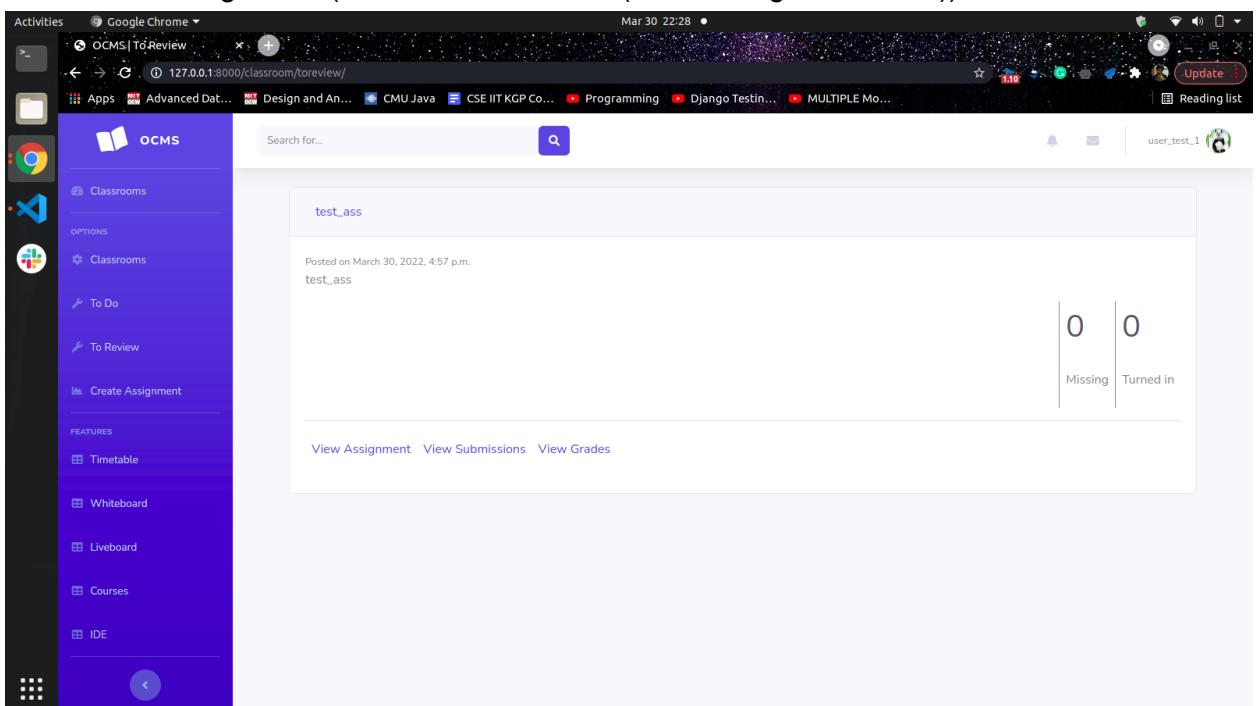


Figure-23 (To-Review List of the teacher)

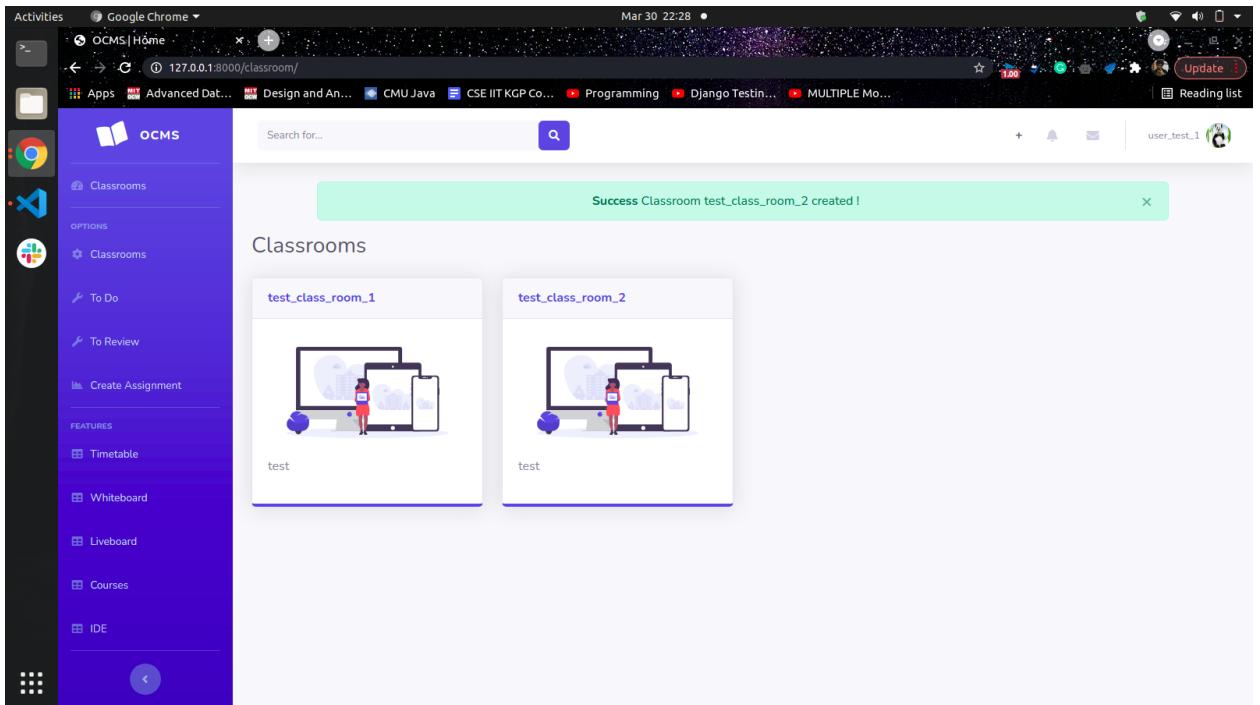


Figure-24 (Adding one more class (to illustrate some functionality later))

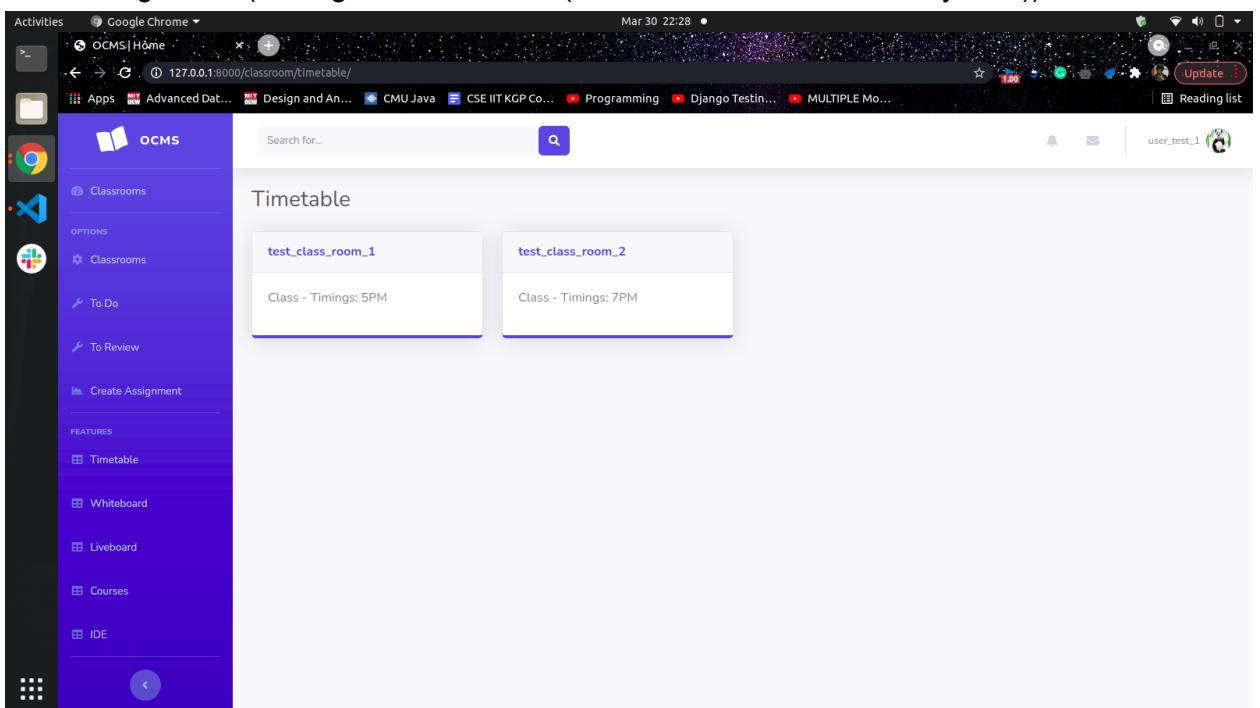


Figure-25 (The 'Timetable' of the user)

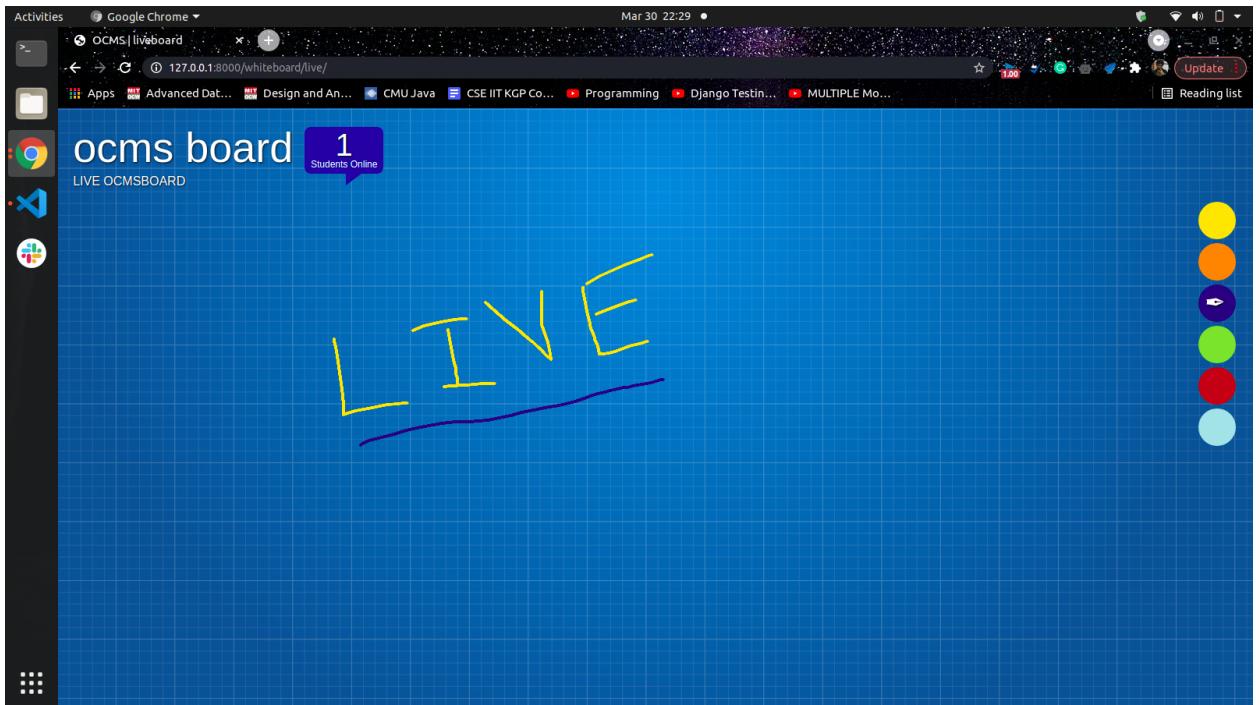


Figure-26 (Liveboard)

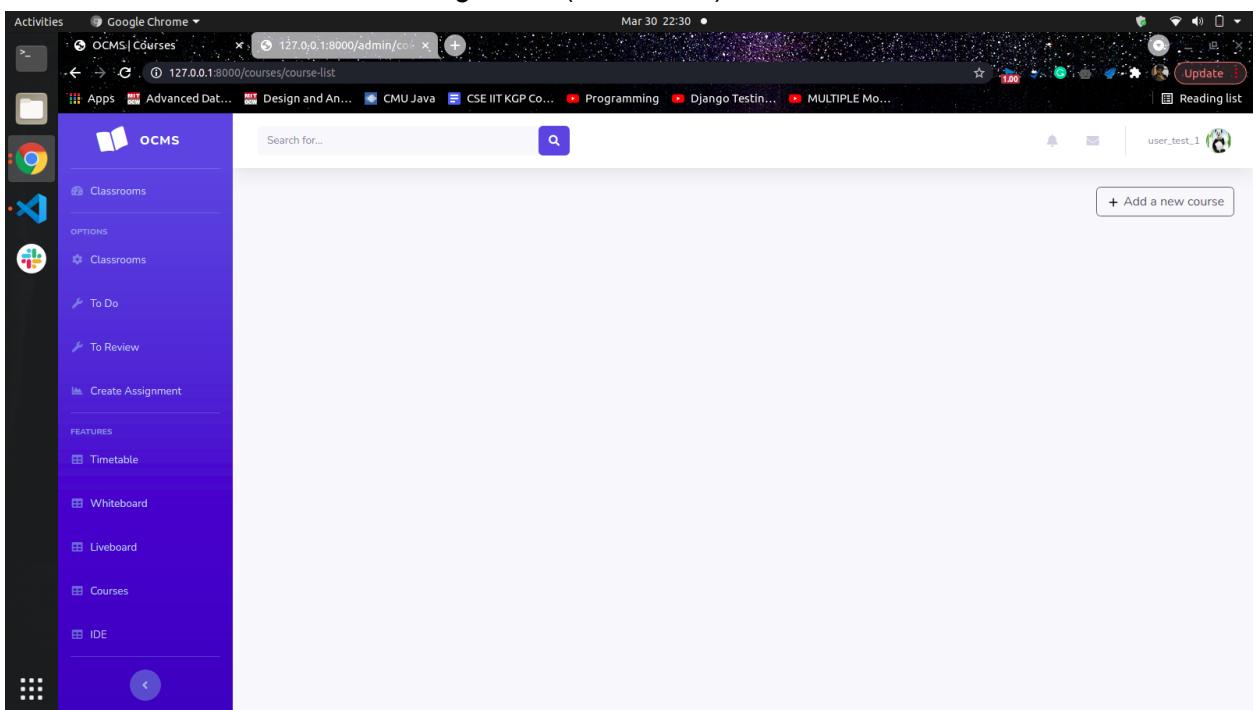


Figure-27 (Accessing the courses)

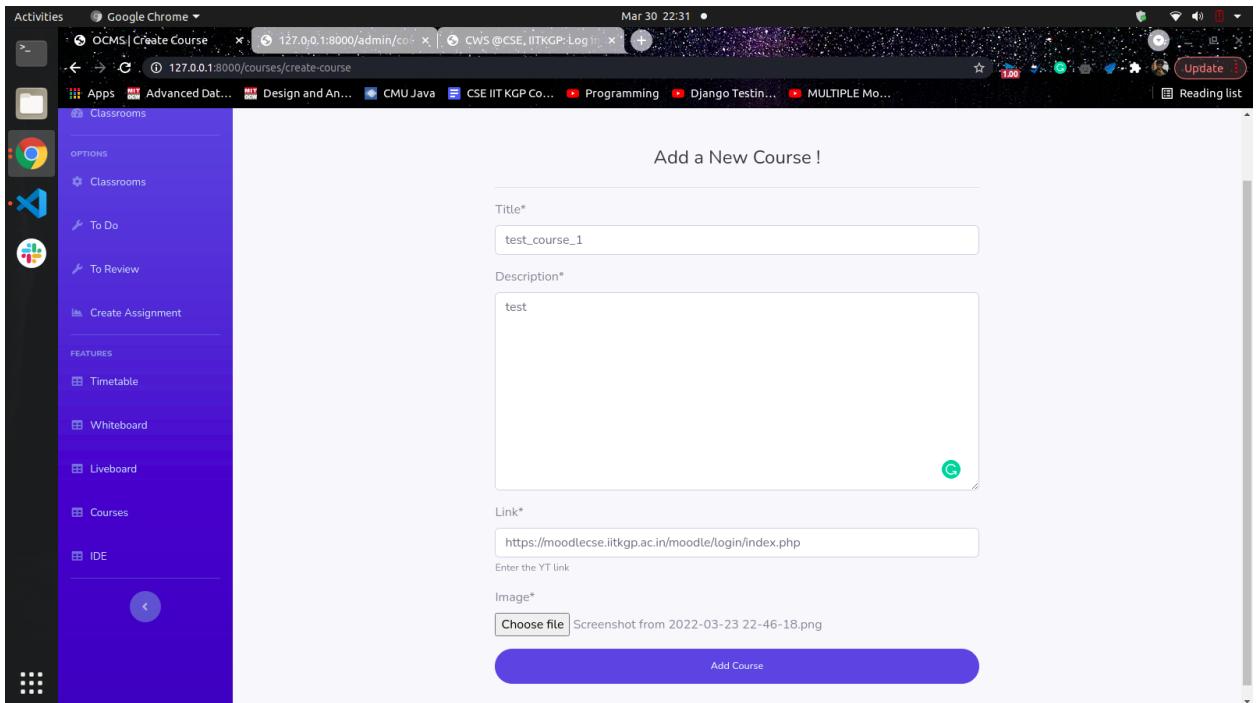


Figure-28 (Adding a course)

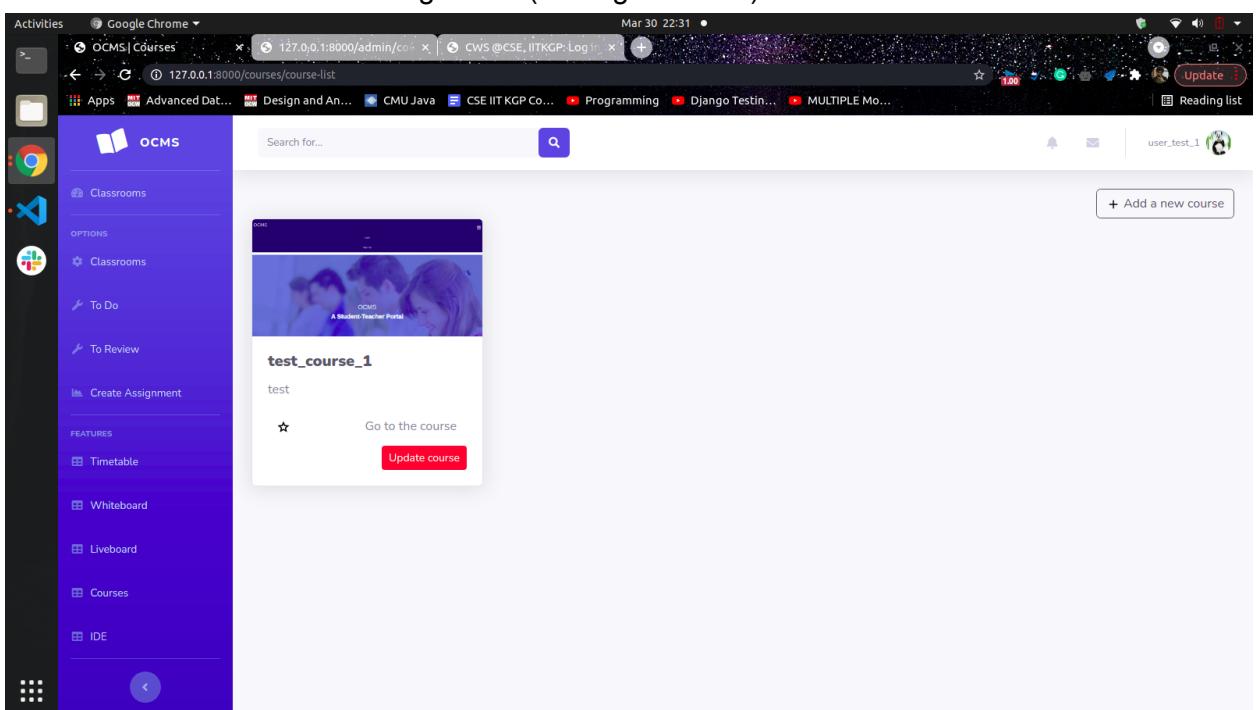


Figure-29 (Course added)

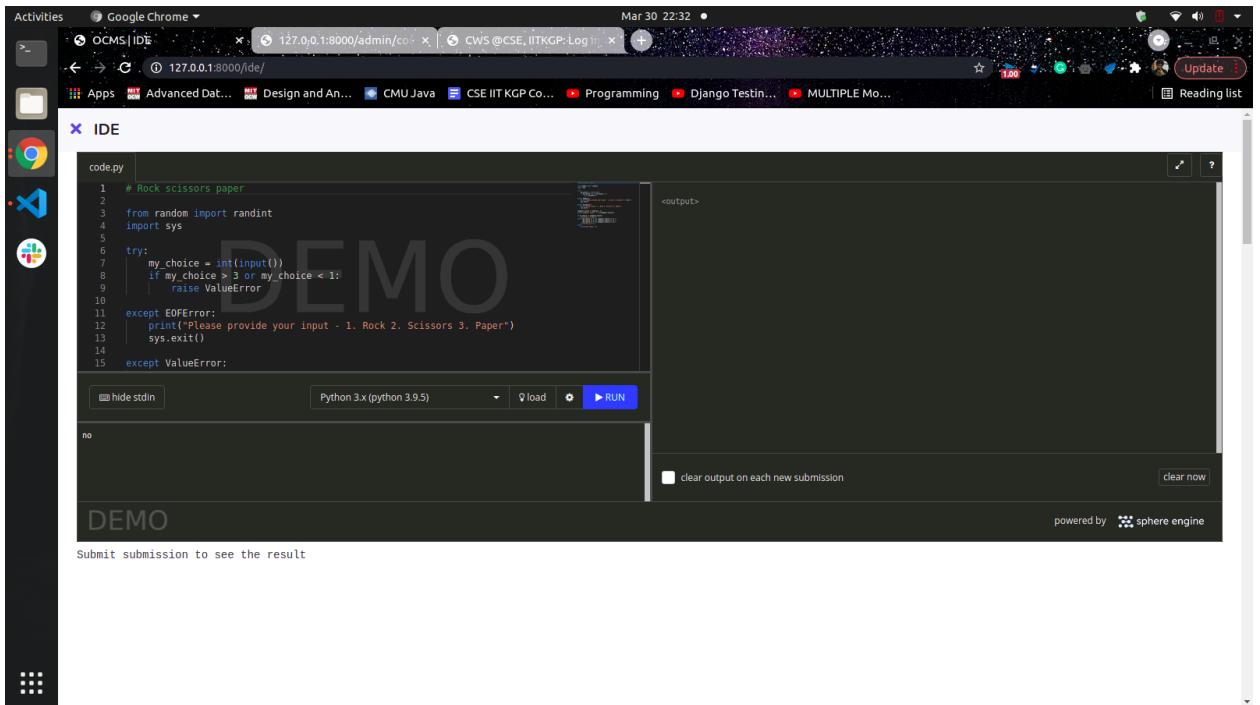


Figure-30 (Accessing the IDE)

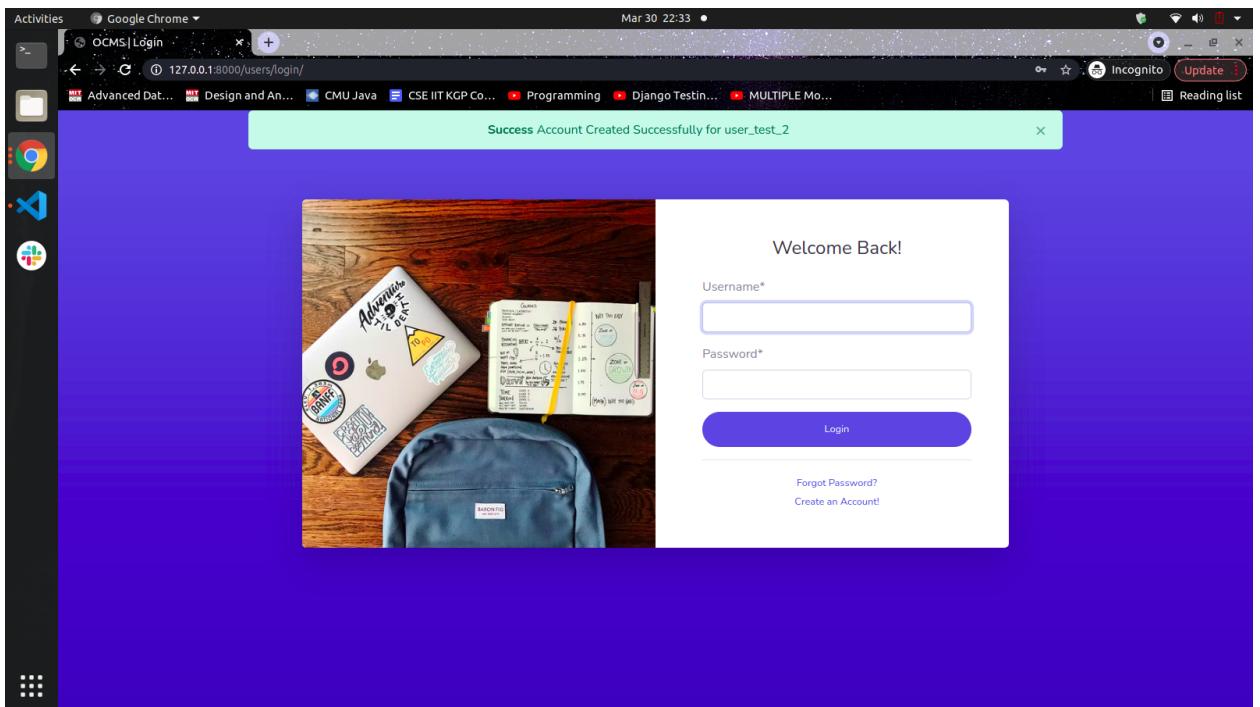


Figure-31 (Registering `user_test_2` for demonstration)

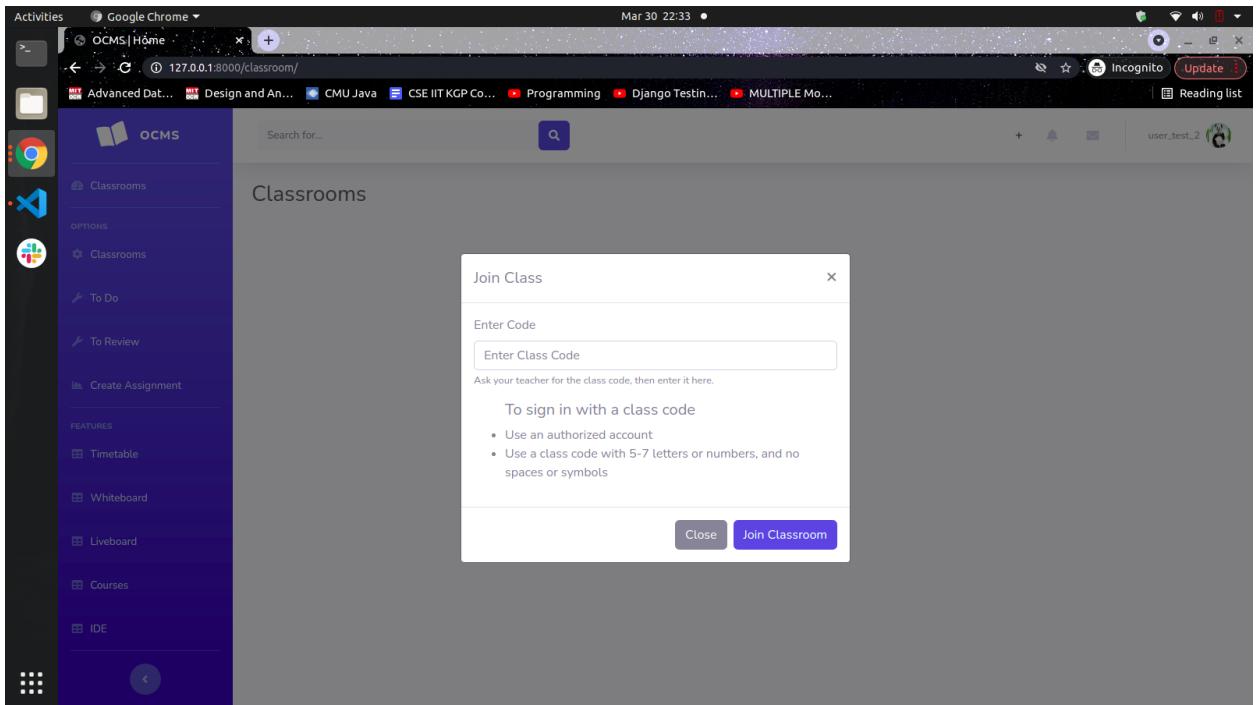


Figure-32 (Using the ‘Join Class’ option to join *test_class_room_1*)

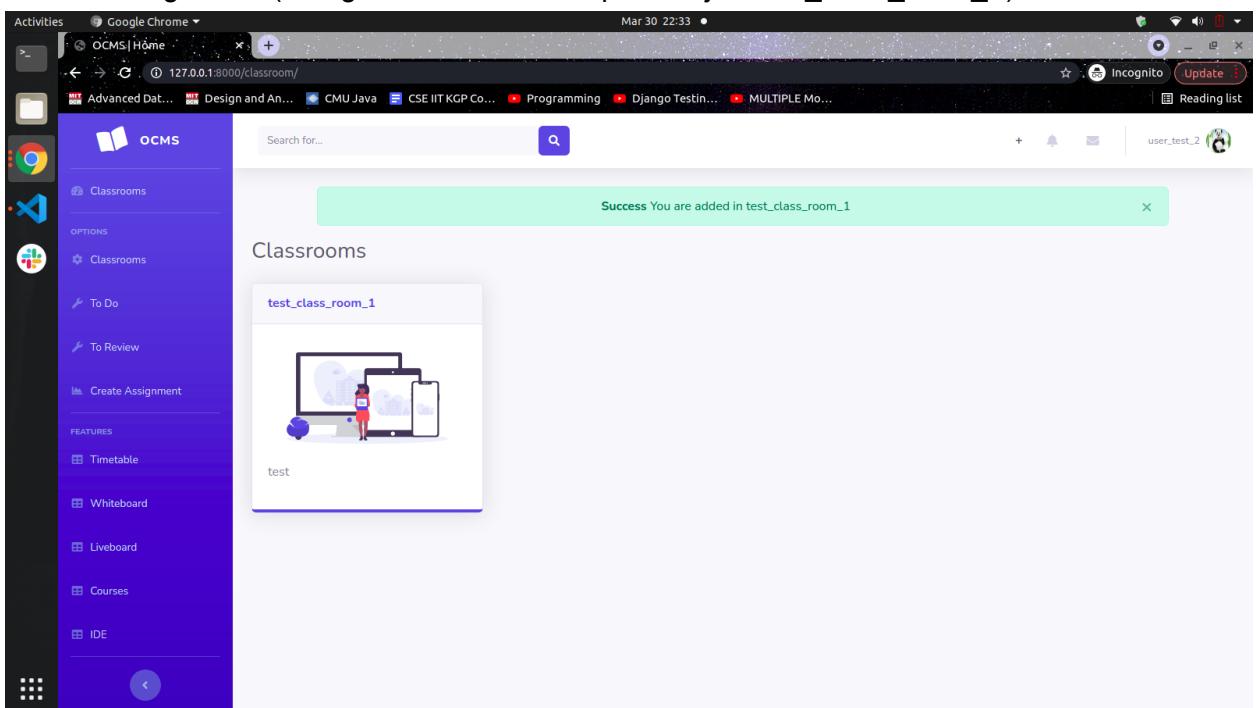


Figure-33 (*test_class_room_1* joined)

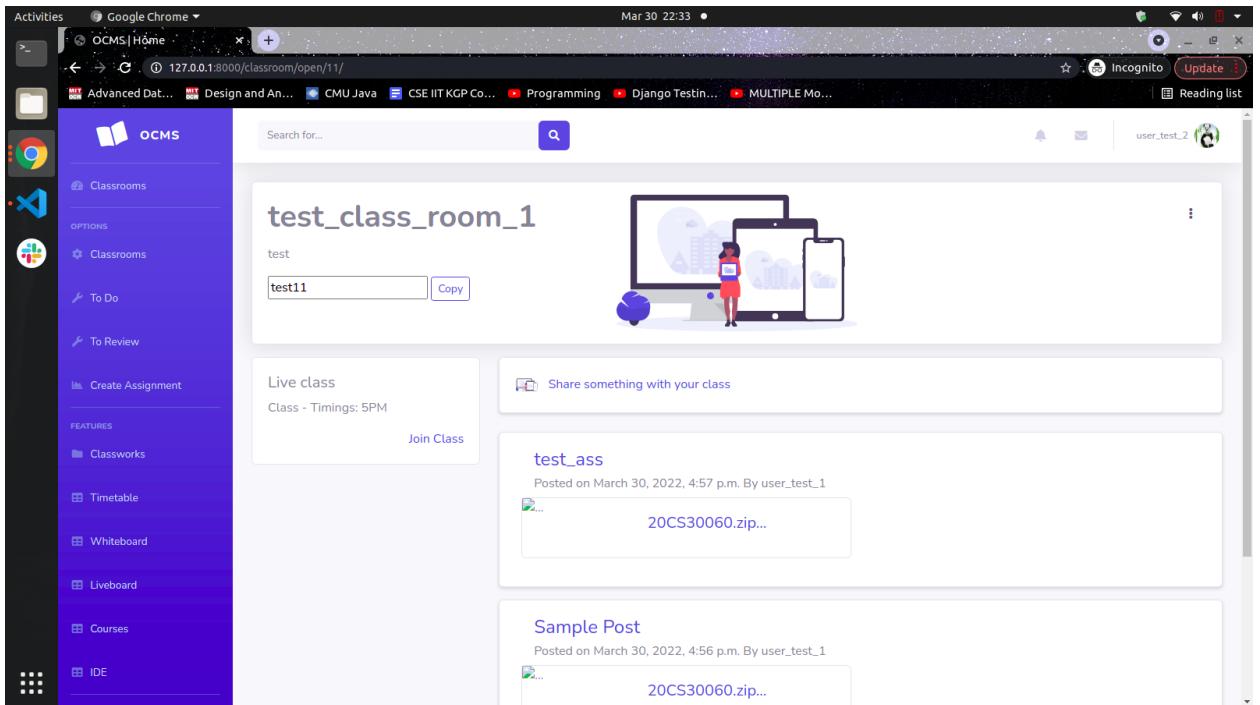


Figure-33 (*test_class_room_1*)

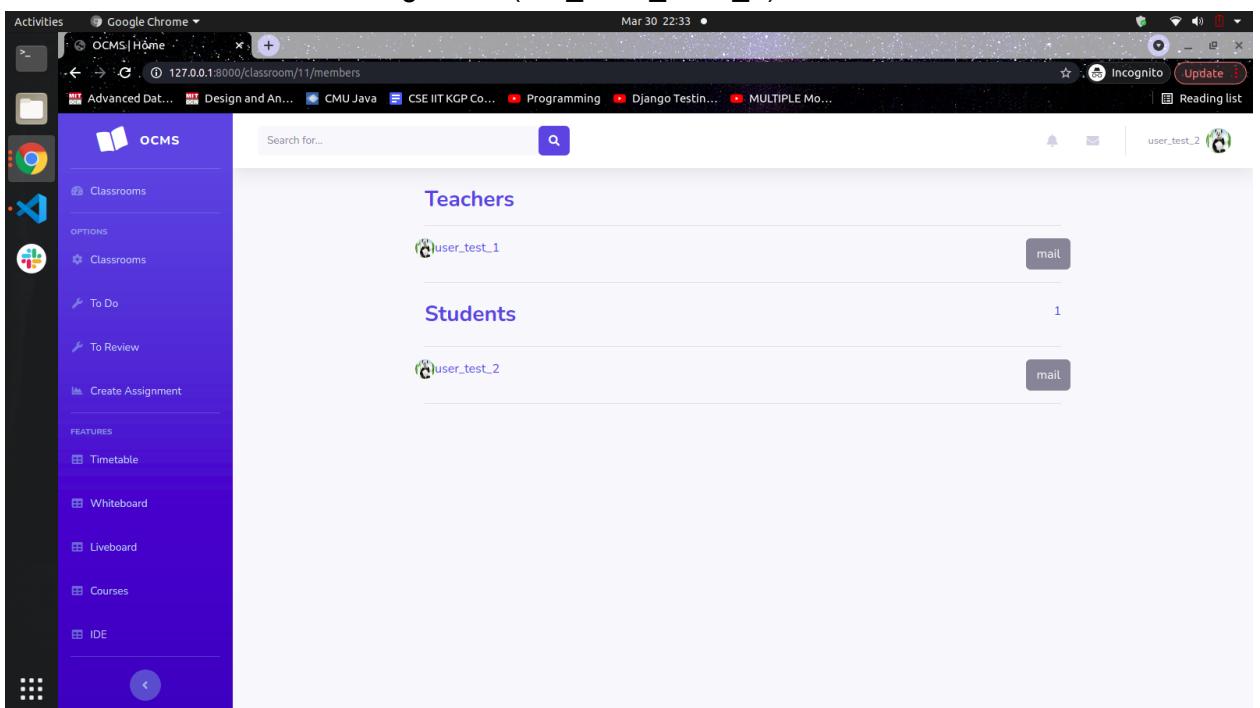


Figure-34 (List of members)

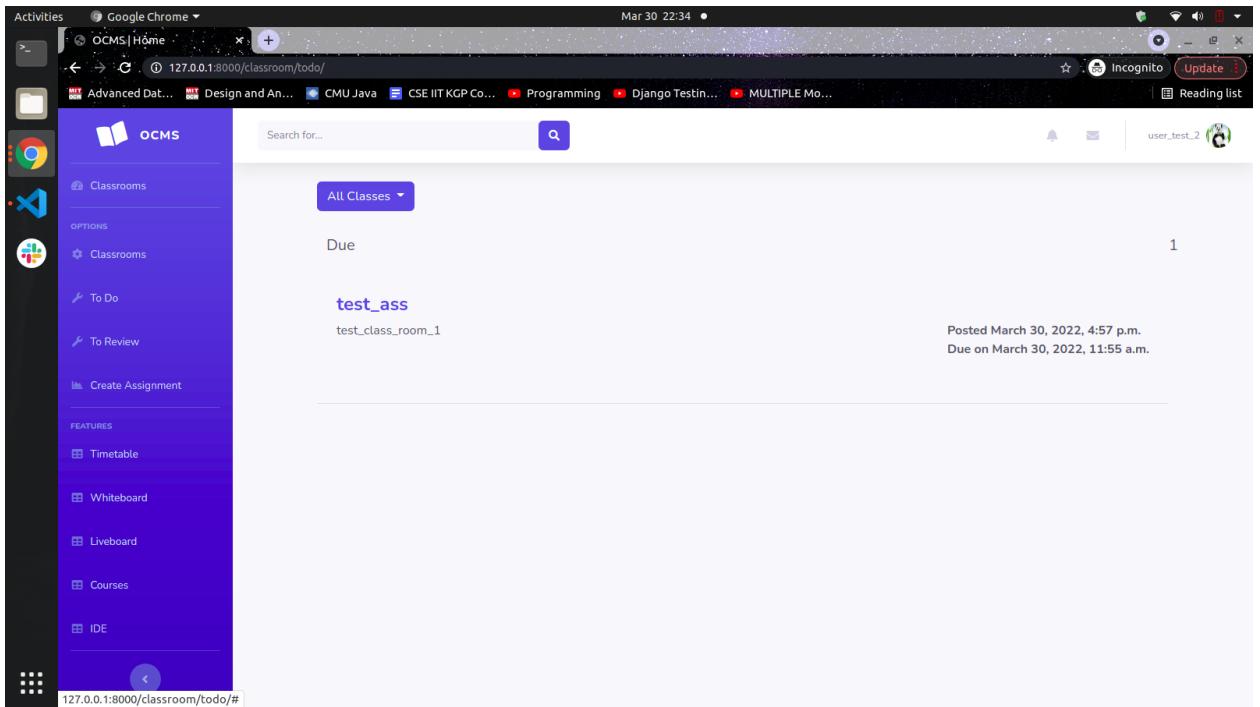


Figure-35 (To-Do list for the student)

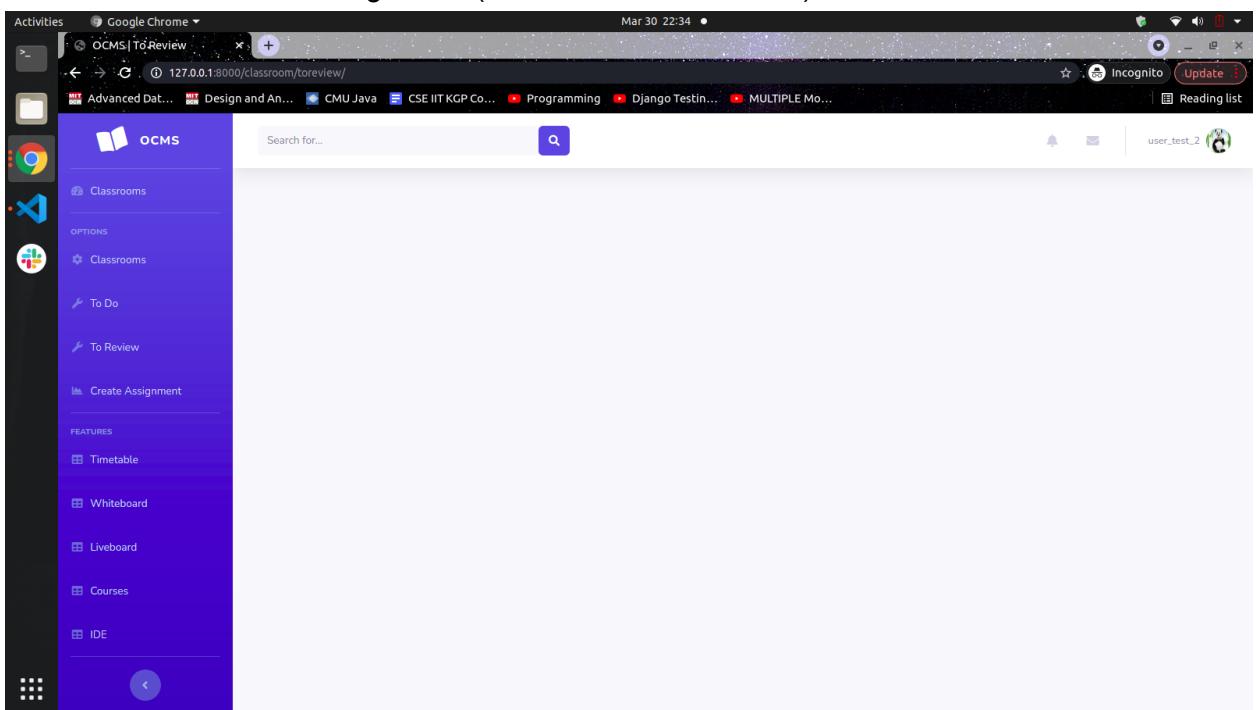


Figure-36 (Empty To-Review)

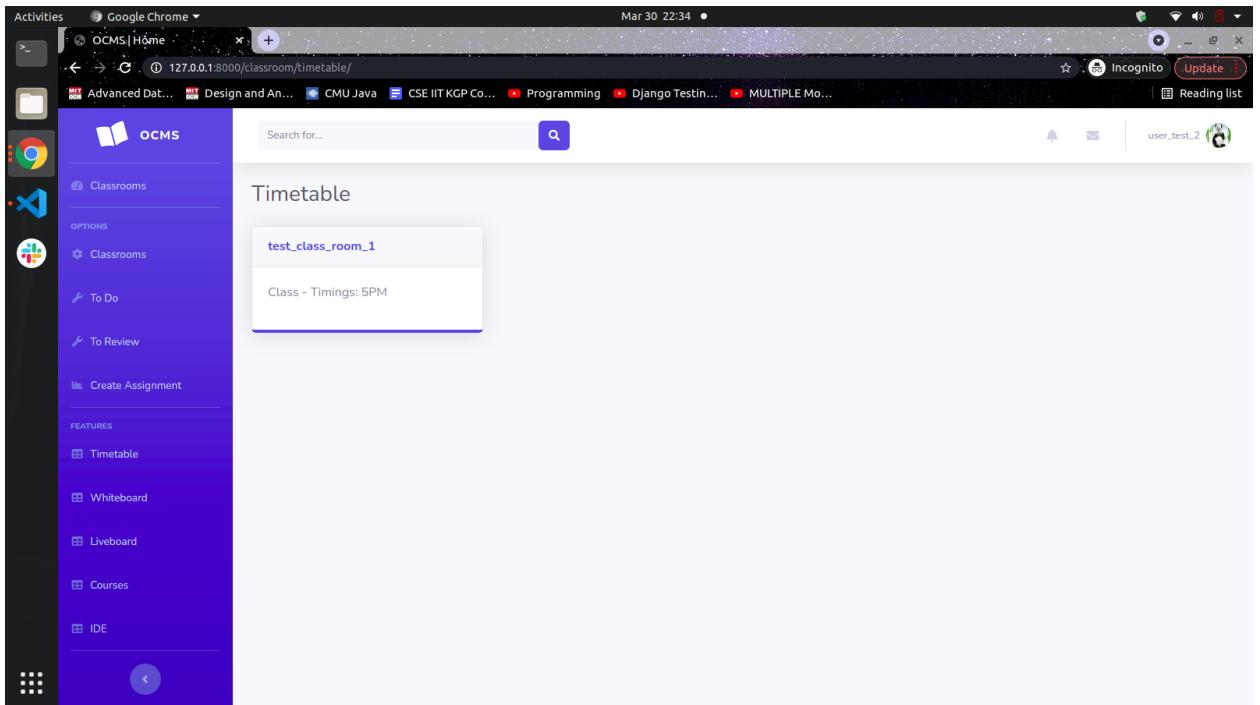


Figure-37 (Timetable of the student)

3. The User Profile

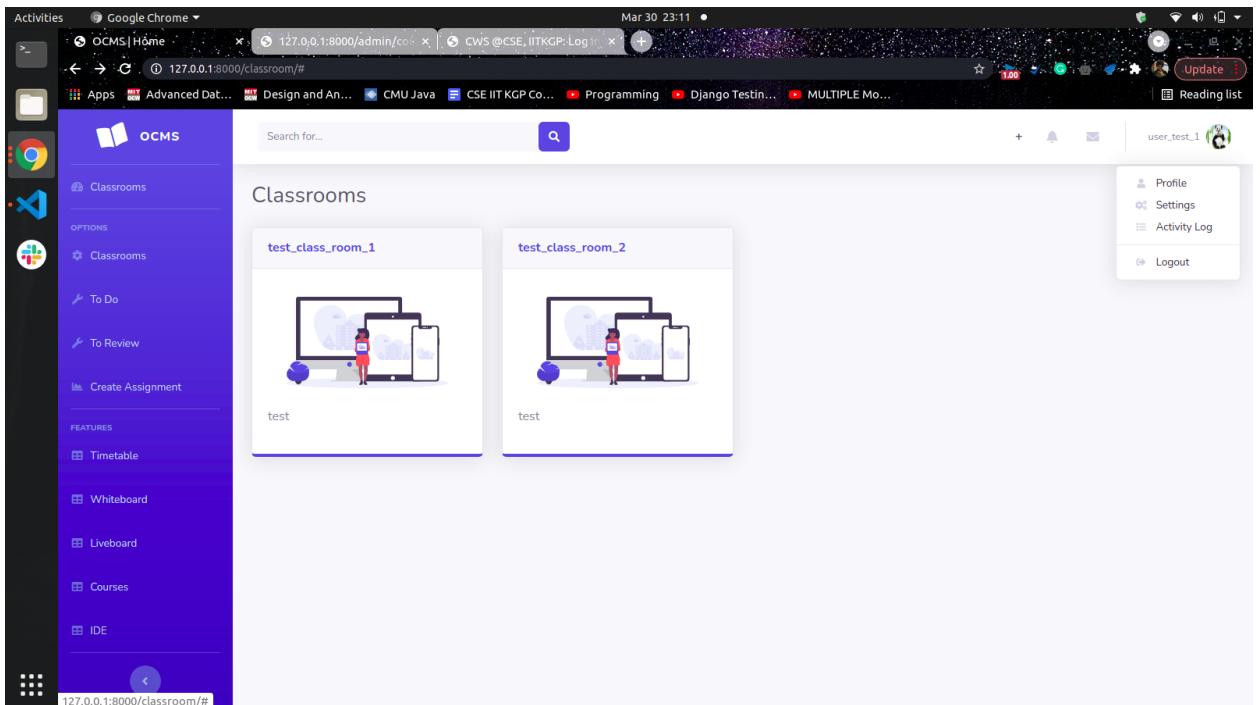


Figure-38 (profile options drop-down)

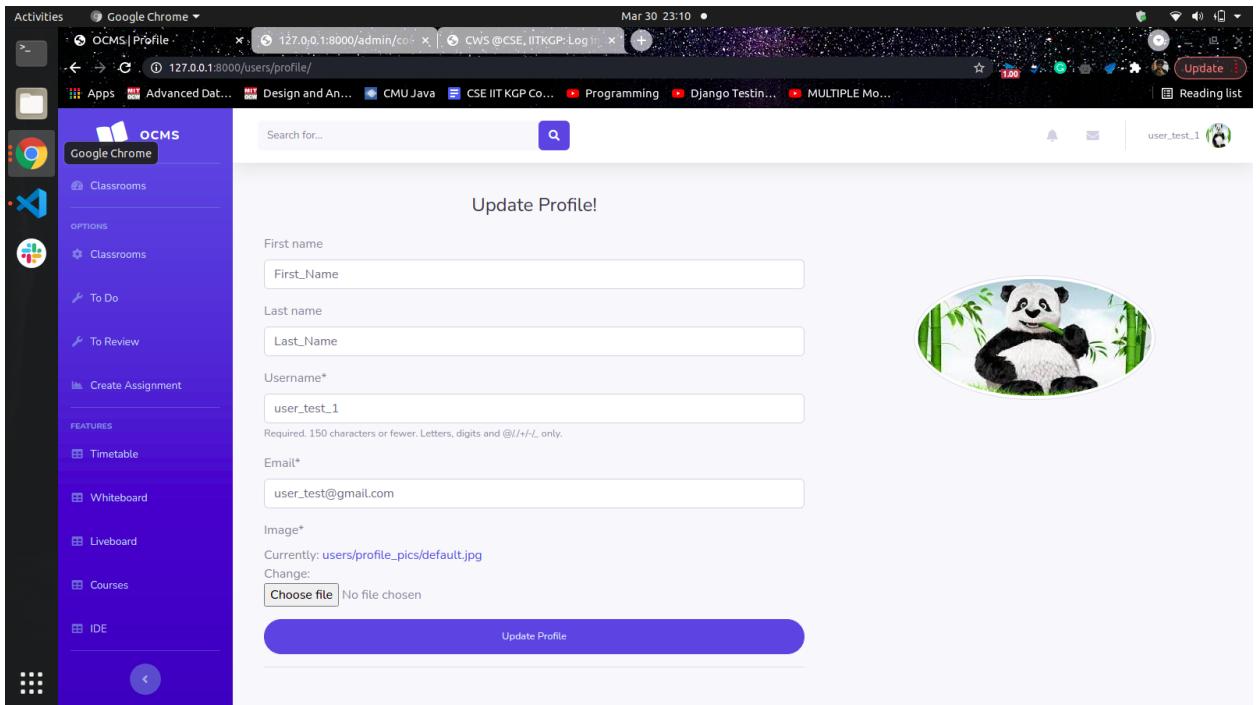


Figure-39 (On clicking on ‘Profile’)

4. Search

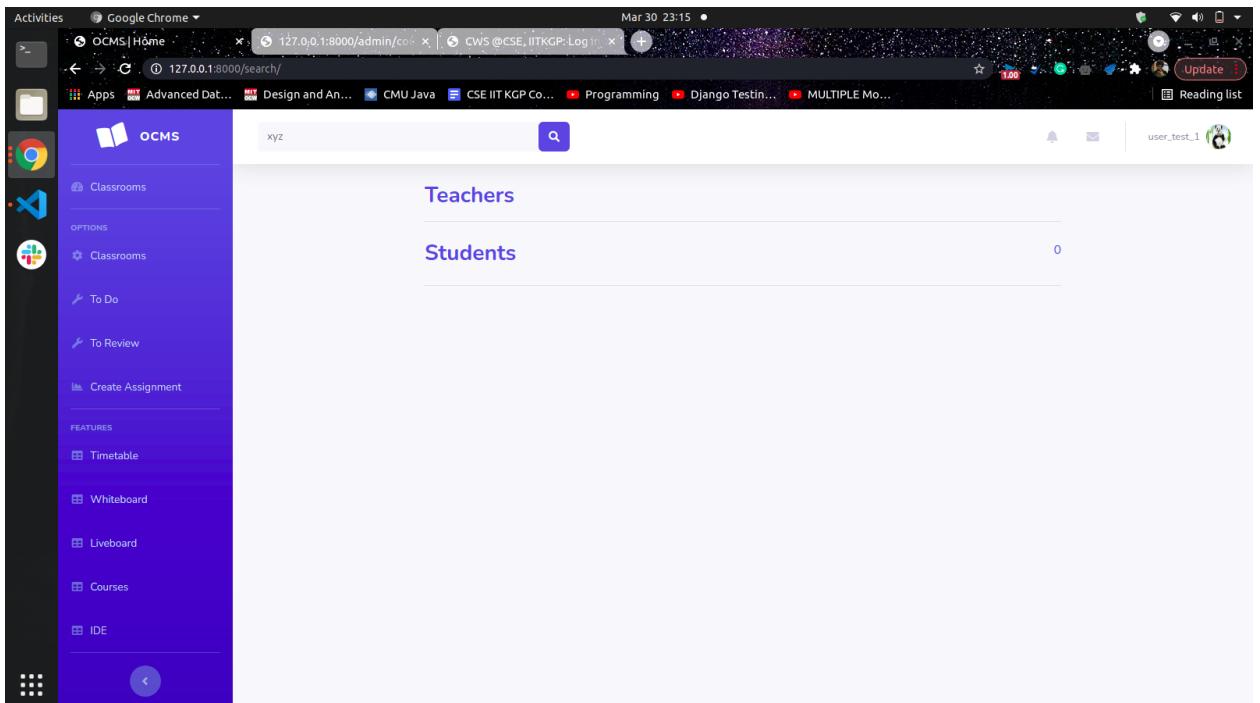


Figure-40 (search)