

Software Systems Lab

User Manual

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1 Title

Course Networking

2 Introduction

This is a social networking website for courses, with emphasis on notifications, discussion forums and student feedback. Students and instructors have separate interfaces, and all users have profiles.

3 Software Requirements

To run this web app, you need to install some software. In the terminal, navigate to the main folder of the project and run this command: `pip install -r requirements.txt`

This will install all the required packages.

4 Login Signup

The Login (Figure 1) and Signup (Figure 2) pages are shown below.

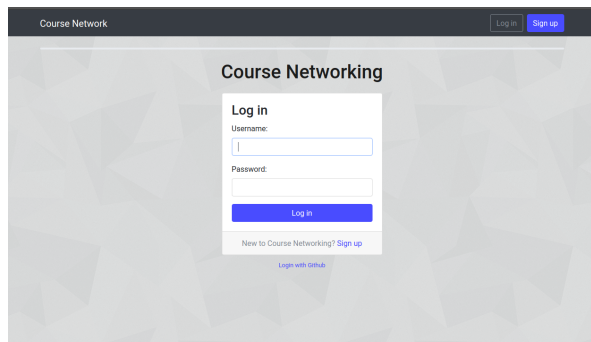


Figure 1: Login

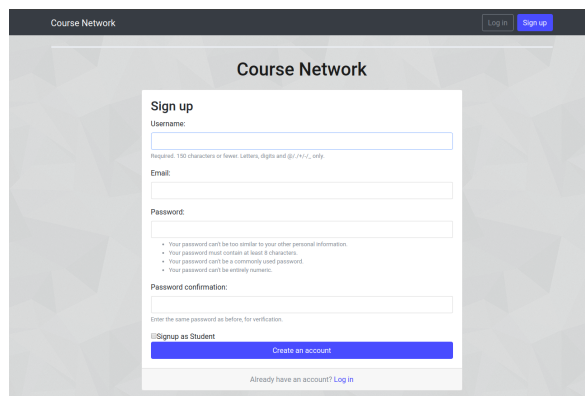


Figure 2: Signup

Signup using the above form.

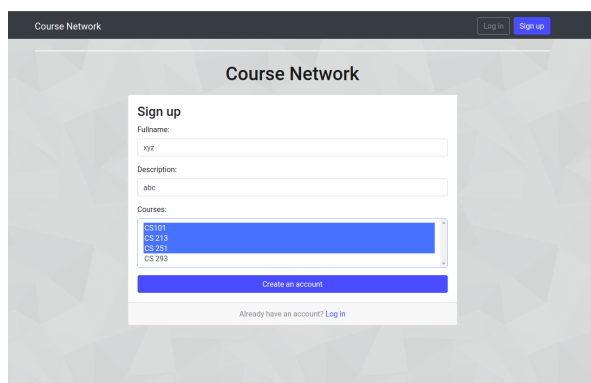


Figure 3: Student signup

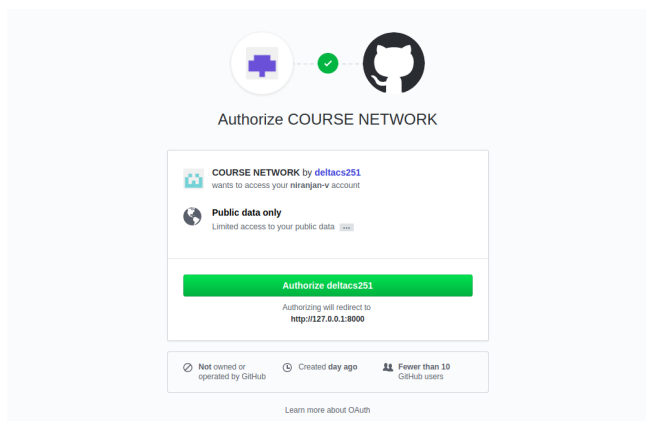


Figure 4: Git Signup

There is also an option for Git-Signup/Login (Figure 4)

5 Homepage

The homepages are different for student (Figure 5) and instructor(Figure 6). After login user is redirected to his corresponding home page. The courses taken (given) by student (instructor) are displayed.

In student home page, links to view his timetable, event calendar are displayed. Also notifications and links to feedback forms to be filled are displayed. When clicked on a notification, its detailed description is showed.

Course Network

niranjan-v

Courses

Course

CS 213
DSA

CS 251
SSL

CS 293
DSA LAB

EE 101
Intro to EE

Notifications

Event	Course	Deadline Date	Deadline Time
end sem	CS 251	Oct. 30, 2017	11:59 p.m.
Midsem	CS 251	Nov. 13, 2017	11:59 p.m.

Feedback

Feedback	Course	Time/Deadline
Midsem feedback	CS 293	Oct. 28, 2017

QUICK LINKS

- View timetable
- Calendar-Monthly View

[Fill out Feedback Form](#)

Figure 5: Student home

Course Network

suyash

Courses

Course

CS 213
DSA

CS 293
DSA LAB

CS 251
SSL

CS101
CS101

Figure 6: Instructor home

6 Student timetable

Student's timetable (Figure 7) is generated from Slot field the Courses he has taken up.

Course Network								
niranjan-v								
Home / My timetable								
Day\Time	8:30-9:30	9:30-10:30	10:30-11:00	11:00-11:30	11:30-12:30	12:30-14:00	14:00-15:30	15:30-17:00
Monday	CS 293			CS 251		Lunch Break		CS 251
Tuesday	CS 293	CS 251	CS 293			Lunch Break		CS 293
Wednesday		EE 101		EE 101		Lunch Break	EE 101	
Thursday	EE 101		CS 293			Lunch Break		CS 293
Friday		EE 101		CS 251		Lunch Break	CS 293	EE 101

Figure 7: Timetable

7 Course homepage

The course homepages for Instructor (Figure 20) and Student (Figure 19) are shown below.

Course Network

niranjan-v

Home / CS 293

CS 293

DSA LAB

Instructor(s) for this course

Instructor

suraj

ajit dhewan

Notifications of CS 293

Event	Course	Deadline Date	Deadline Time
quiz 1	CS 293	Oct. 28, 2017	noon
quiz 2	CS 293	Oct. 28, 2017	11:59 p.m.
Assignment 2	CS 293	Oct. 28, 2017	11:59 p.m.

QUICK LINKS

- [View discussion forum](#)
- [View course resources](#)

Participants of CS 293

ajay

Jeevithiesh D

Team delta

V_niranjan

Niranjan Vaddi

kalyan

Figure 8: Student course home

Course Network suyash

Home / CS 251

CS 251

SSL

Instructor(s) for this course

Instructor

[suraj](#)

[Suyash P Awate](#)

[Ajit Diwan](#)

Notifications of CS 251

Event	Course	Deadline Date	Deadline Time		
quiz 4	CS 251	Oct. 26, 2017	11:59 p.m.	Edit	Delete
end sem	CS 251	Oct. 30, 2017	11:59 p.m.	Edit	Delete
Midsem	CS 251	Nov. 13, 2017	11:59 p.m.	Edit	Delete

QUICK LINKS

- [View discussion forum](#)
- [View course resources](#)
- [Add a New Event](#)
- [Add Feedback Form](#)
- [View Feedback](#)

Students of CS 251

[ajay](#)

[Jeevithiesh D](#)

[Team delta](#)

[V_nirnanjan](#)

[Niranjan Vaddi](#)

[kalyan](#)

Figure 9: Instructor course home

In course home page, the instructors for the course, the students who have taken up the course are showed (these are also links to their profiles). The events related to that course are displayed in this page. There are links to discussion forum and course resources page. Similarly in instructor page there are also options to add/edit/delete an event. Add feedback form, view responses.

8 Course resources

Instructor's course resources page is shown below. The download link for the resource is given

Course Network suyash

Courses / CS 251 / Resources

Resources

File description	Download link	Uploaded at
tutorial1	tutorial1_Oc8hXvJ.pdf	Oct. 26, 2017, 4:30 p.m.
tutorial 2	tutorial2_ynH89jr.pdf	Oct. 26, 2017, 4:30 p.m.
tut 3	l8.pdf	Oct. 26, 2017, 4:40 p.m.

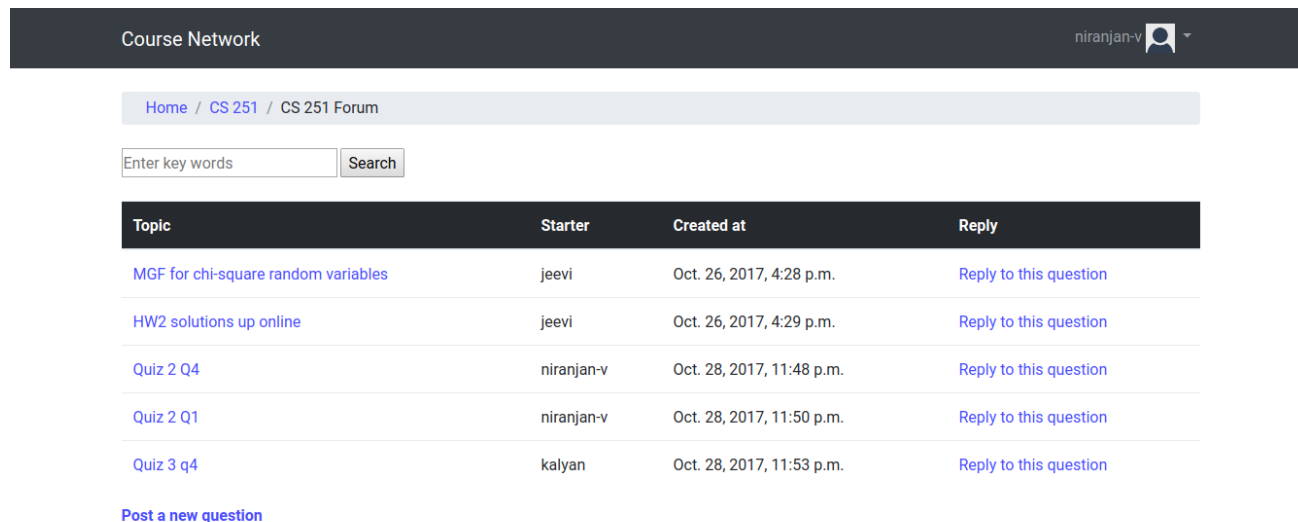
[Upload a new resource](#)

Figure 10: Course resources page

in the table. Student's page looks the same except that there is no upload a new resource link.

9 Discussion forum

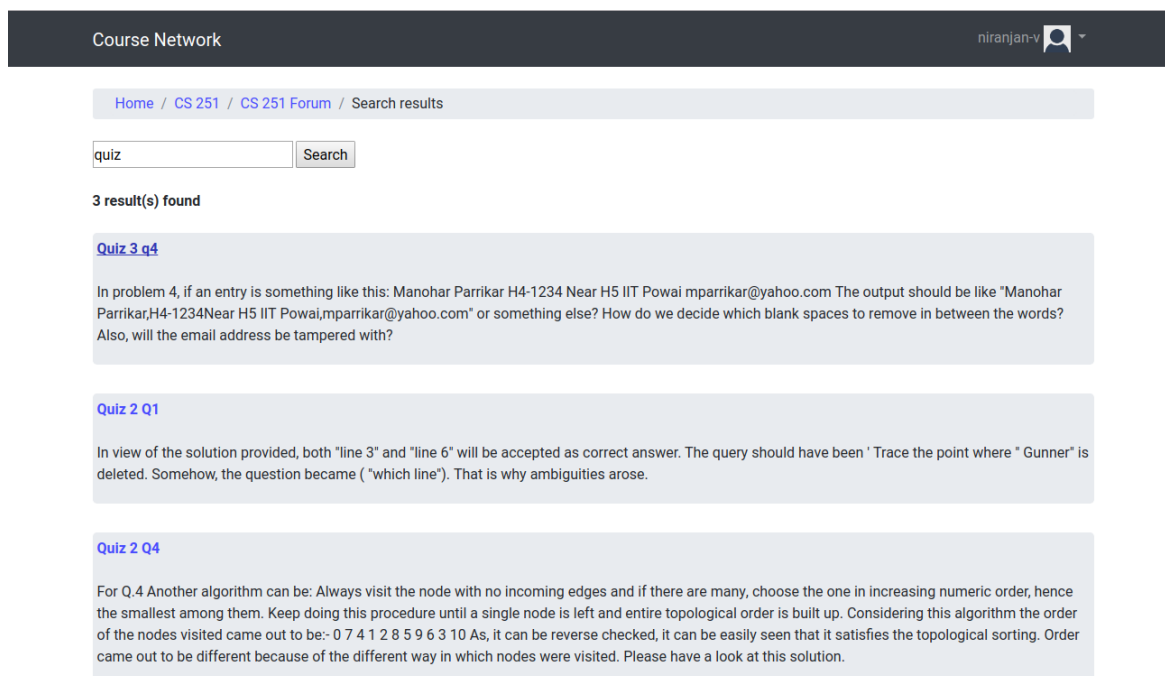
In discussion forum page(Figure 11), the topics are displayed in a tabular format. There is a search feature (implemented using django filter). The search results page (Figure 12) is shown below.



Topic	Starter	Created at	Reply
MGF for chi-square random variables	jeevi	Oct. 26, 2017, 4:28 p.m.	Reply to this question
HW2 solutions up online	jeevi	Oct. 26, 2017, 4:29 p.m.	Reply to this question
Quiz 2 Q4	niranjan-v	Oct. 28, 2017, 11:48 p.m.	Reply to this question
Quiz 2 Q1	niranjan-v	Oct. 28, 2017, 11:50 p.m.	Reply to this question
Quiz 3 q4	kalyan	Oct. 28, 2017, 11:53 p.m.	Reply to this question

[Post a new question](#)

Figure 11: Forum page



Search results
Quiz 3 q4
In problem 4, if an entry is something like this: Manohar Parrikar H4-1234 Near H5 IIT Powai mparrikar@yahoo.com The output should be like "Manohar Parrikar,H4-1234Near H5 IIT Powai,mparrikar@yahoo.com" or something else? How do we decide which blank spaces to remove in between the words? Also, will the email address be tampered with?
Quiz 2 Q1
In view of the solution provided, both "line 3" and "line 6" will be accepted as correct answer. The query should have been "Trace the point where "Gunner" is deleted. Somehow, the question became ("which line"). That is why ambiguities arose.
Quiz 2 Q4
For Q.4 Another algorithm can be: Always visit the node with no incoming edges and if there are many, choose the one in increasing numeric order, hence the smallest among them. Keep doing this procedure until a single node is left and entire topological order is built up. Considering this algorithm the order of the nodes visited came out to be: 0 7 4 1 2 8 5 9 6 3 10 As, it can be reverse checked, it can be easily seen that it satisfies the topological sorting. Order came out to be different because of the different way in which nodes were visited. Please have a look at this solution.

Figure 12: Search results

When clicked on a topic, it takes to the page of that topic. In that page the question and the replies for that question are displayed (sorted by the number of upvotes for the reply) are displayed. And the instructor's reply is shown first mentioning it as an instructor's reply.

Course Network
niranjan-v

Home / CS 251 / CS 251 Forum

MGF for chi-square random variables

Please note that the MGF for a chi-square random variable with n degrees of freedom, is defined only for $t < 1/2$. I have now added this statement in the slides for Families of Random Variables (download the slides from the class website again).

by : jeevi Oct. 26, 2017, 4:28 p.m.

[Reply to this question](#)

License checkout error is being displayed currently due to a multitude of active users. We're unable to complete the first two questions.

Replied by : kalyan Oct. 26, 2017, 4:31 p.m.

Upvote
4
Downvote
0

Then you have 2 options (and perhaps more): 1) Compute the information that the boxplot needs yourself and display that information using standard curve plots. For this you'd need to find percentiles (25, 50, 75) of the data within each "box" of the box plot. 2) Use some other software just to display the boxplot (python, SciLab, etc).

Replied by : kalyan Oct. 26, 2017, 4:31 p.m.

Upvote
2
Downvote
2

Use octave it is very similar to MATLAB

Replied by : niranjan-v Oct. 28, 2017, 11:55 p.m.

Upvote
0
Downvote
0

[Post a new question](#)

Figure 13: Topic page

Course Network
niranjan-v

Home / CS 251 / CS 251 Forum / Search results

3 result(s) found

Quiz 3 q4

In problem 4, if an entry is something like this: Manohar Parrikar H4-1234 Near H5 IIT Powai mparrikar@yahoo.com The output should be like "Manohar Parrikar,H4-1234Near H5 IIT Powai,mparrikar@yahoo.com" or something else? How do we decide which blank spaces to remove in between the words? Also, will the email address be tampered with?

Quiz 2 Q1

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Quiz 2 Q4

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Figure 14: Search results

There are options to post a new topic(for student only) and reply for a question in the forum page and the topic page.

Course Network

niranjan-v

[Home](#) / [CS 251](#) / [CS 251 Forum](#)

MGF for chi-square random variables

Please note that the MGF for a chi-square random variable with n degrees of freedom, is defined only for $t < 1/2$. I have now added this statement in the slides for Families of Random Variables (download the slides from the class website again).

by : jeevi Oct. 26, 2017, 4:28 p.m.

[Reply to this question](#)

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Replied by : kalyan Oct. 26, 2017, 4:31 p.m.

Upvote

4

Downvote

0

Then you have 2 options (and perhaps more): 1) Compute the information that the boxplot needs yourself and display that information using standard curve plots. For this you'd need to find percentiles (25, 50, 75) of the data within each "box" of the box plot. 2) Use some other software just to display the boxplot (python, SciLab, etc).

Replied by : kalyan Oct. 26, 2017, 4:31 p.m.

Upvote

2

Downvote

2

Use octave it is very similar to MATLAB

Replied by : niranjan-v Oct. 28, 2017, 11:55 p.m.

Upvote

0

Downvote

0

[Post a new question](#)

Figure 15: Topic page

Course Network

suraj

[Home](#) / [CS 251](#) / [CS 251 Forum](#) / [CS 251 Forum](#)

MGF for chi-square random variables

Please note that the MGF for a chi-square random variable with n degrees of freedom, is defined only for $t < 1/2$. I have now added this statement in the slides for Families of Random Variables (download the slides from the class website again).

by : jeevi Oct. 26, 2017, 4:28 p.m.

[Reply to this question](#)

INSTRUCTOR REPLY

Try Python or R or octave. There will be a class on: Thu 5:30 pm - 7 pm, Oct 5 (this week) LH-101. Also, the assignment has been posted on moodle. Best Suraj

Replied by : suraj Oct. 29, 2017, 1:13 p.m.

License checkout error is being displayed currently due to a multitude of active users. We're unable to complete the first two questions.

Replied by : kalyan Oct. 26, 2017, 4:31 p.m.

Upvote

4

Downvote

0

Then you have 2 options (and perhaps more): 1) Compute the information that the boxplot needs yourself and display that information using standard curve plots. For this you'd need to find percentiles (25, 50, 75) of the data within each "box" of the box plot. 2) Use some other software just to display the boxplot (python, SciLab, etc).

Replied by : kalyan Oct. 26, 2017, 4:31 p.m.

Upvote

3

Downvote

1

Figure 16: Instructor's reply shown first

10 Feedback

The instructor can add a feedback form with subjective and objective questions.

Activities Google Chrome Sun 13:11

CS2511 x Niranj x f https:// x project x project x S Project x YouTube x Assign x addFee x Course x Suraj x

127.0.0.1:8000/instructor/1/addFeedback

Apps Academic Entertainment Mail, Google Shopping torrents programming Instructive Project books Foot Problem Notebooks »

Deadline time: 23:59

Rating Question 1:

Enter Question Here

Subjective Question 1:

Enter Question Here

Subjective Question 2:

Enter Question Here Please fill in this field.

Rating Question 2:

Enter Question Here

Subjective Question 3:

Enter Question Here

Subjective Question 4:

Enter Question Here

Rating Question 3:

Enter Question Here

Add Rating Question Add Subjective Question

Submit

Figure 17: Add Feedback Form

The student must fill the form and submit it. If a student submits a form more than once, his/her responses will be overwritten.

Question:Rate difficulty of question paper

Your Response:

☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Question:Rate quality of questions

Your Response:

☐ 1 ☐ 2 ☒ 3 ☐ 4 ☐ 5

Question:Additional comments

Your Response:

The paper was balanced.

Submit

Figure 18: Submit Feedback

The instructor can then view the collected responses. The answers are anonymous and the rating answers are shown in the form of a graph.

11 User Profile

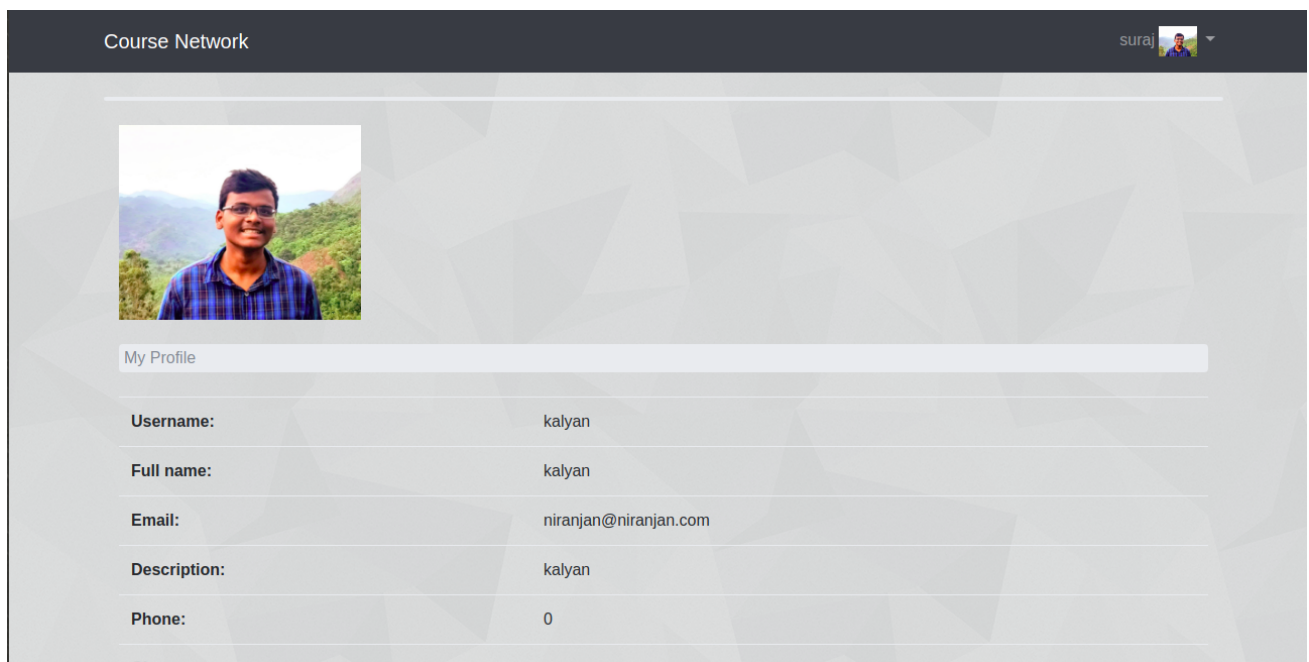


Figure 19: Profile

The 'Edit Profile' form contains the following fields and options:

- Fullname:
- Description:
- Website:
- Phone:
- City:
- Image: Currently: [documents/kalyan2_rkVWNbd.jpg](#) ☐ Clear
- Change: No file chosen
-

Figure 20: Edit Profile

Each user has a profile that can be viewed by others. The user can edit his/her profile.

12 Site setup and maintenance by admin

To create a an admin (superuser), go to main directory of project and run this command:
'python3 manage.py createsuperuser'

Next run this command : 'python3 slot_setup.py' - this command create some Slot instances we've used in this project.

admin login page - <http://127.0.0.1:8000/admin/login>

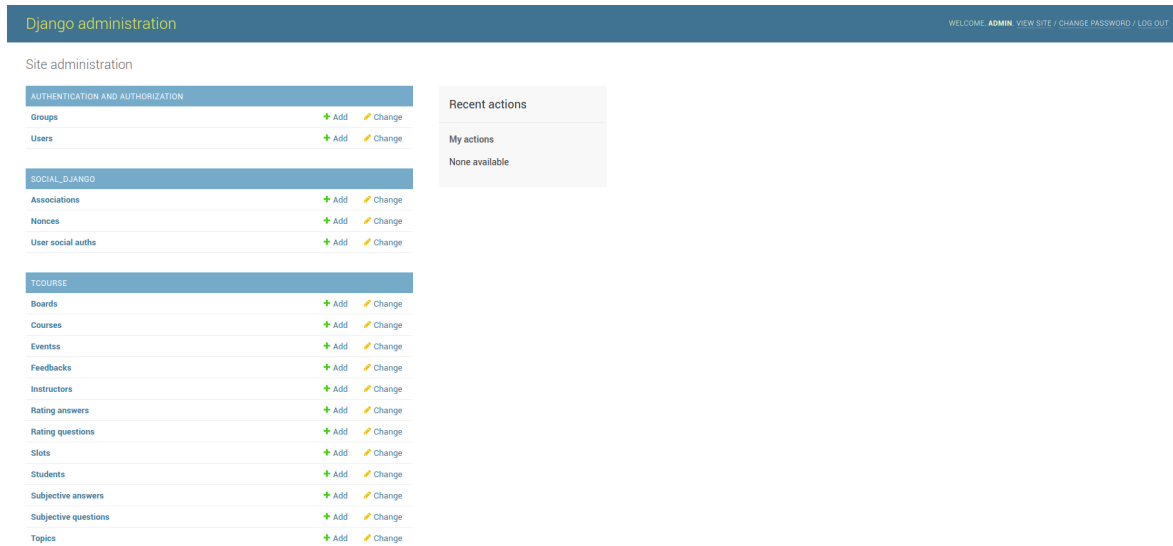


Figure 21: Admin home page

We have registered some models in admin.py file, so that the admin can **view/edit/add/delete** instances of these models. To create a coruse, go to Courses model, click on add Course, enter Course name and description ,select instructor and slot from available instances of those. Also admin has to create a Board model (for discussion forum) for this Course, which can be done in a similar fashion.

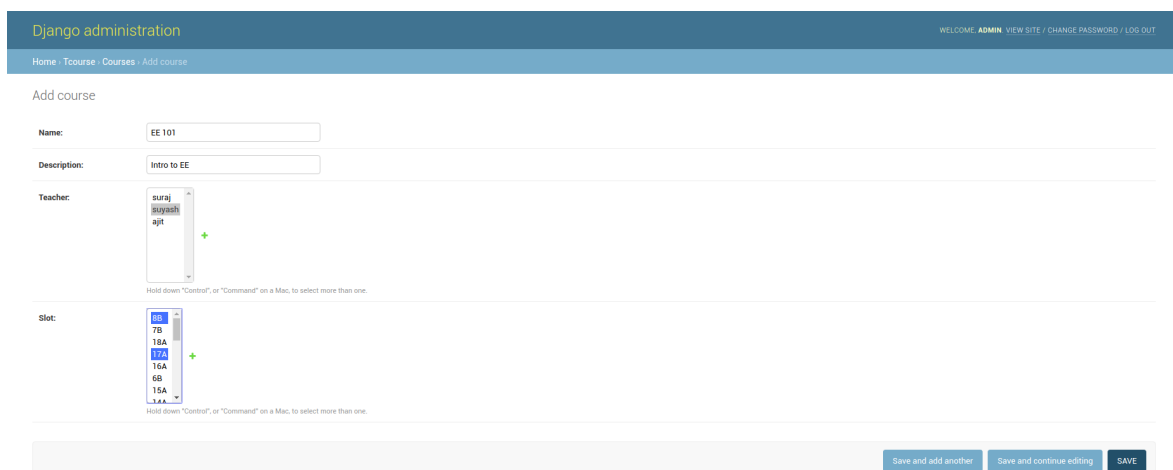


Figure 22: Creating a course

Django administration

WELCOME, ADMIN / VIEW SITE / CHANGE PASSWORD / LOG OUT

Home / Course / Boards / Add board

Add board

Name:

EE 101 Forum

Description:

Discussion forum

Course:

EE 101

Save and add another

Save and continue editing

SAVE

Figure 23: Creating a board

Setting up git-hub login service:

Step1: Go to <https://github.com/settings/applications/new>

give the url of your homepage

Step2: Authorization callback URL: `your_homepage_url/oauth/complete/github/`

Step3: Get Client ID and Client secret

Step4: In your `project-2/mysite/settings.py` add this:

`SOCIAL_AUTH_GITHUB_KEY = <Client ID>`

`SOCIAL_AUTH_GITHUB_SECRET = <Client secret>`

Now we are all set. To start server run: `'python3 manage.py runserver'`