Software Systems Lab
User Manual

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Contents

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

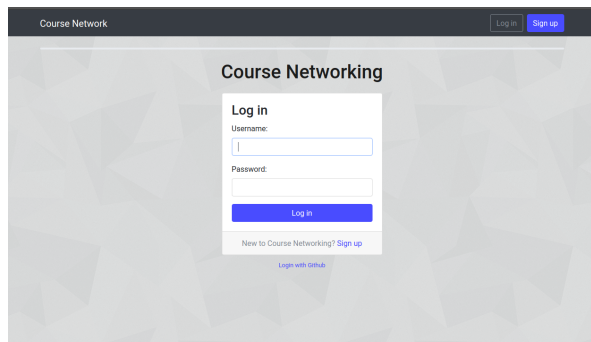The Login (Figure 1) and Signup (Figure 2) pages are shown below.

Figure 1: Login

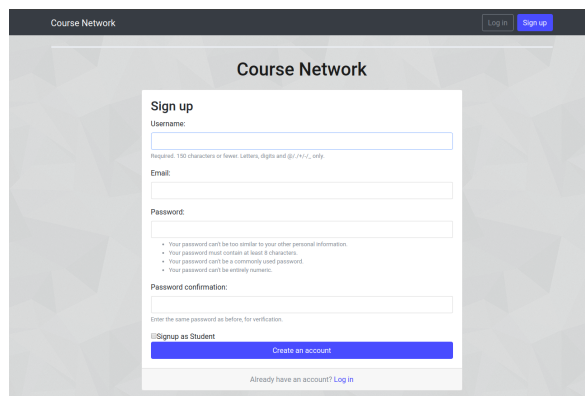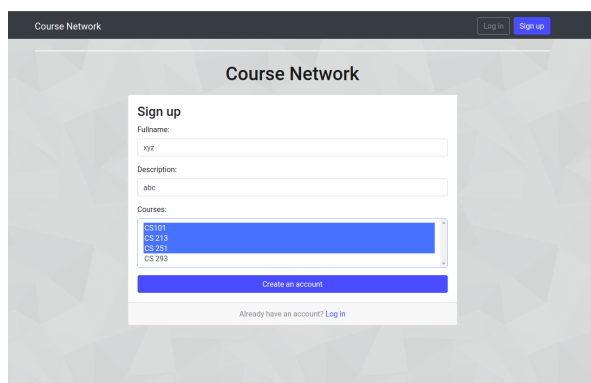Figure 2: Signup

Signup using the above form.
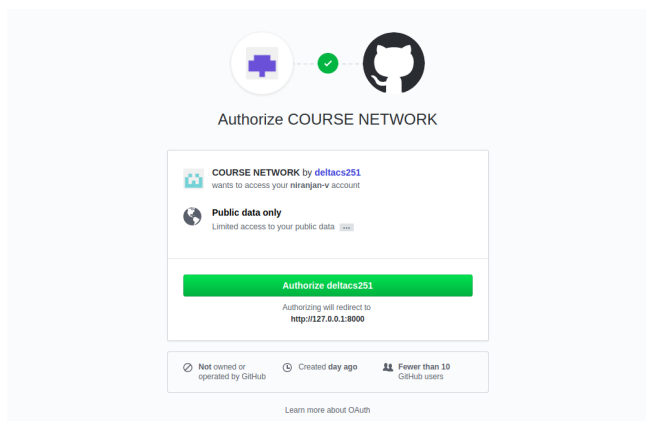

Figure 3: Student signup

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.

Figure 5: Student home

Figure 6: Instructor home

6 Student timetable

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

Figure 7: Timetable

7 Course homepage

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

Figure 8: Student course home

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
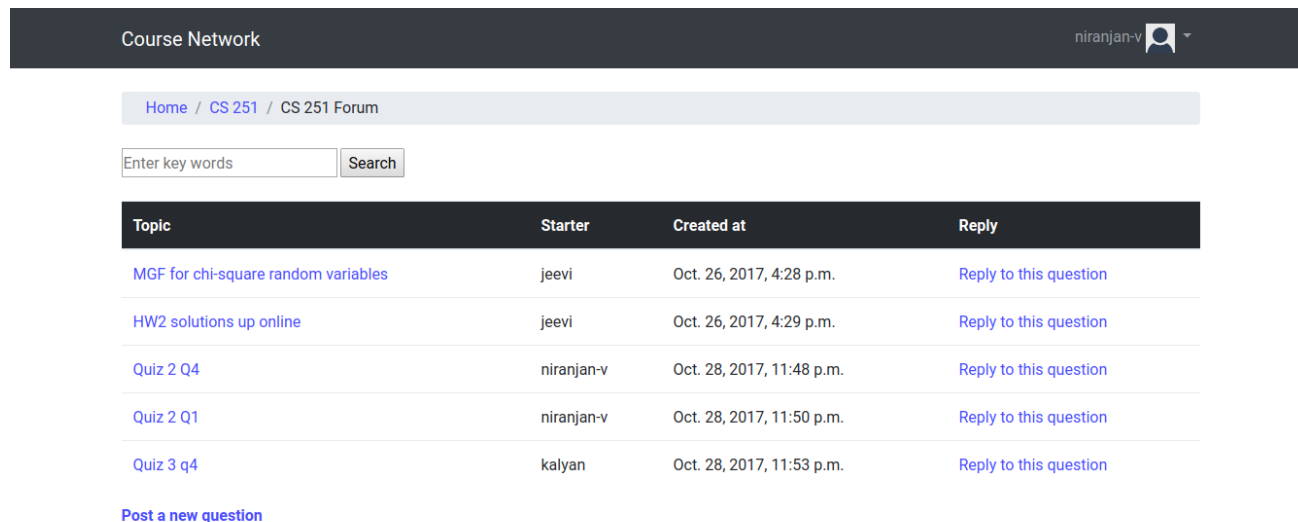

Figure 10: Course resources page

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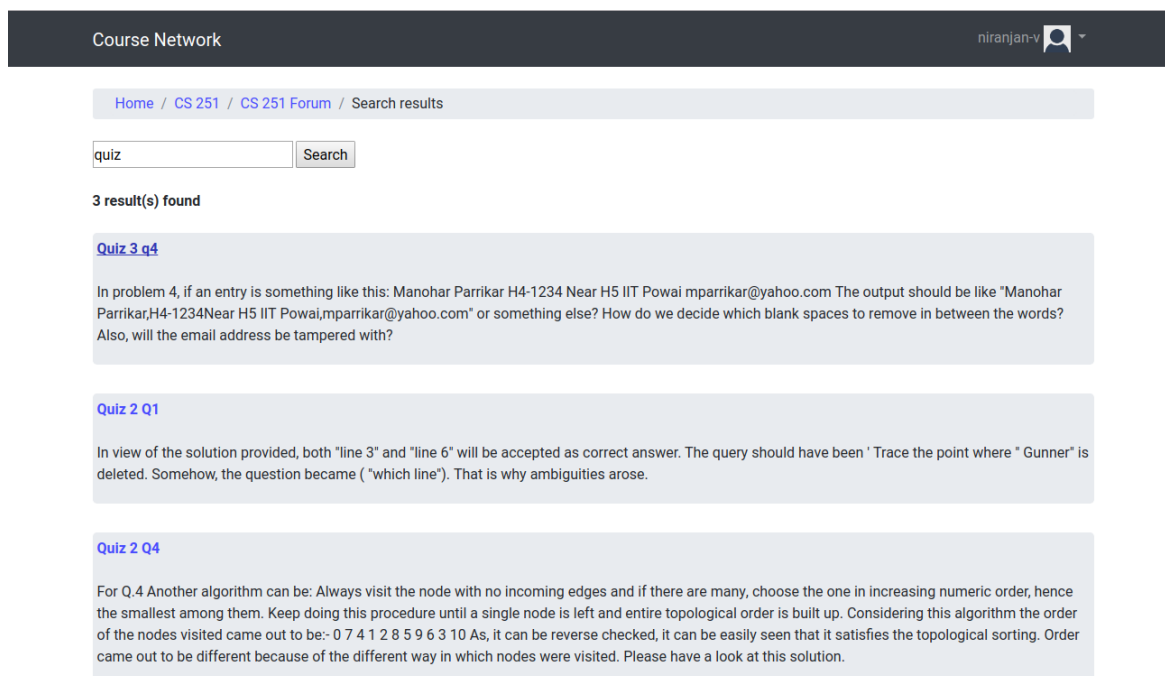
9 Discussion forum

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.

Figure 11: Forum page

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.

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

Home / CS 251 / CS 251 Forum / Search results

quiz   Search

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

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 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.

Figure 15: Topic page

Figure 16: Instructor's reply shown first

10 Feedback

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

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.

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.
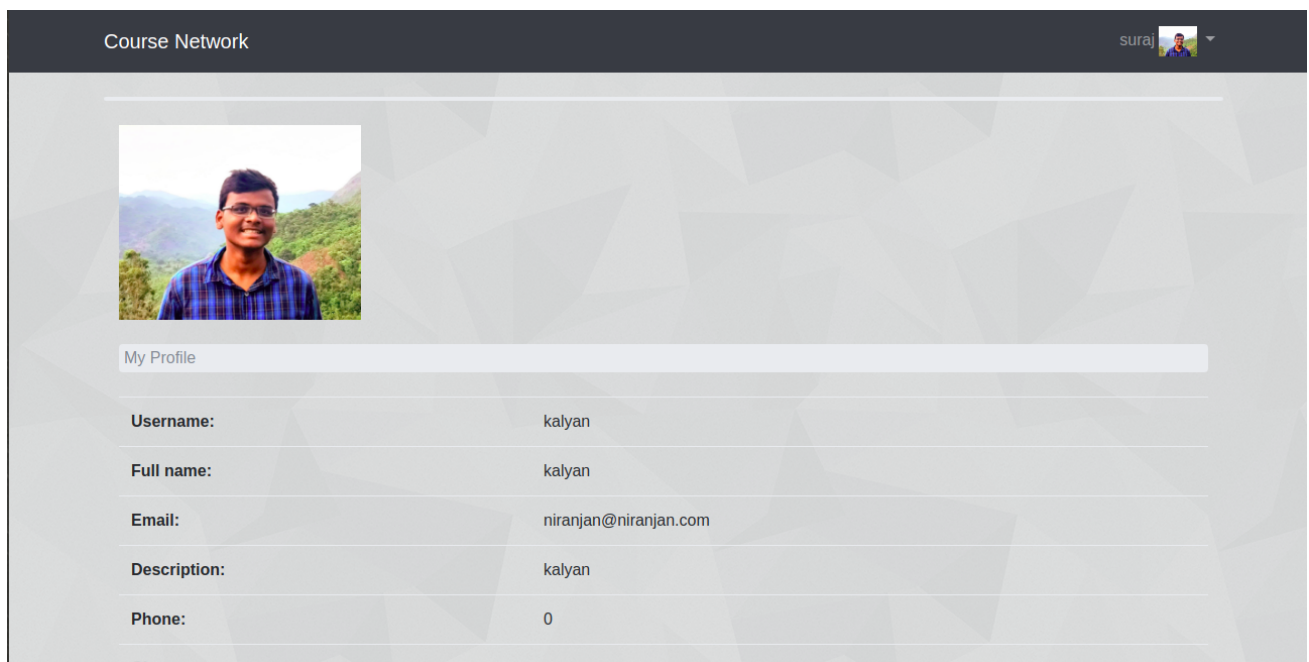
11 User Profile

Figure 19: Profile

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.

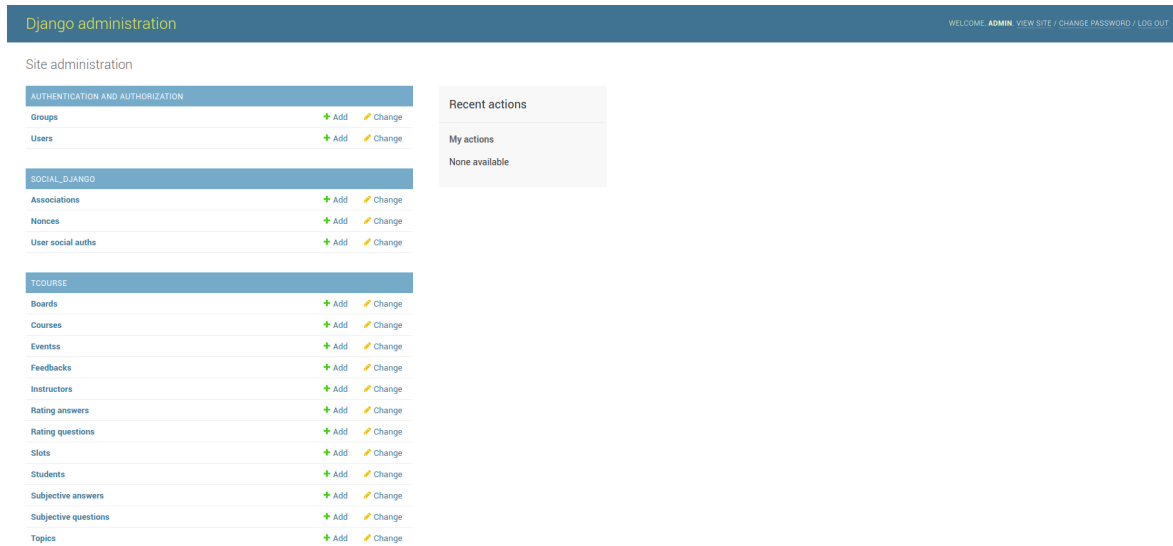admin login page - `http://127.0.0.1:8000/admin/login`

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.
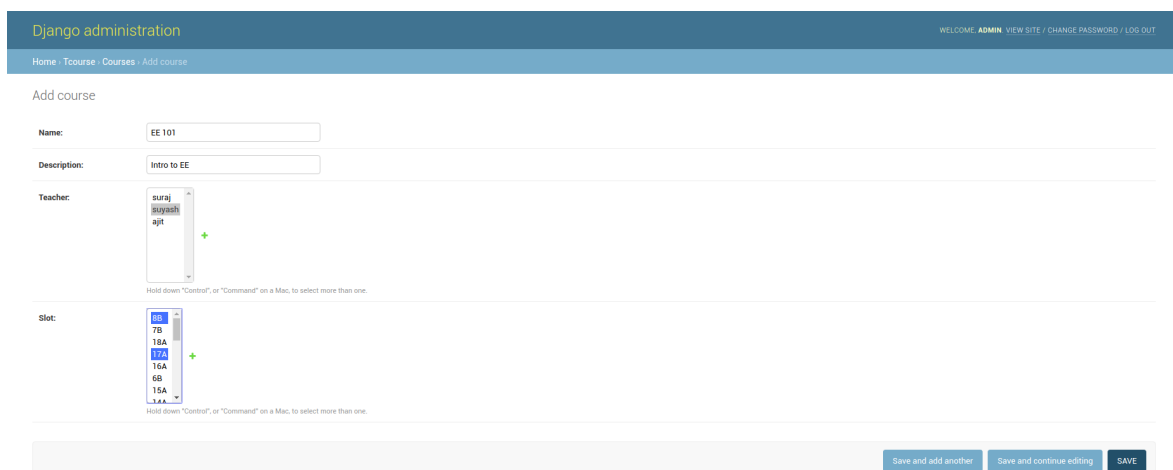

Figure 22: Creating a course

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'