

Software Engineering Lab
Implementation Report I - Build I

Student Teacher Project Manager

Vichitr (16CO152)

Shashank Kumar (16CO246)

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1. Basic Information

Frameworks: -

Front End Framework - **Materialize CSS**

Back End Framework - **Django**

Database

1. Sqlite3

Languages Used: -

1. HTML
2. Python
3. CSS
4. JavaScript

Libraries: -

1. jQuery

APIs : -

1. jQuery
2. Message
3. Templates
4. Forms
5. Settings
6. Models
7. Databases

Text Editors: -

1. Notepad++

Debugger: -

1. Django inbuilt debugger

Testing Tools: -

1. Django inbuilt testing tool

How to run ?

Prerequisites:

Python 3.6

Django 2.0 or higher

django-crispy-forms

Note: Unzip the project folder and got to the main directory in which manage.py and requirements.txt file exist

1. Install Python 3.6
2. Install pip
3. Install Django(Run following command)

\$ pip install django

4. Install requirements using the following command(You should be in the same directory in which requirements.txt file is)

\$ pip install -r requirements.txt

5. Create the database:

\$ python manage.py migrate

6. Finally, run the development server:

\$ python manage.py runserver

7. The project will be available at 127.0.0.1:8000

2. Functional Requirements (Implemented)

2.1 Course Instructor

FRID	NAME	Description
U1F1	Sign up	Course instructor would be able to sign up for his account creation.
U1F2	Log in	Course instructor would be able to login into his/her account after signing up using this feature. When user uses this feature, it must go to a web page that asks for login credentials. After entering username and password, user can login.
U1F3	Add Course	Course instructor will add course through this feature. When course instructor adds a new course, it will be added to the database and all details will be saved.
U1F13	Profile View	By going to profile section, he/she can see his/her profile. By clicking on profile takes the user to his/her profile

2.2 Student

FRID	NAME	Description
U2F1	Sign up	student can sign up to access the web portal for first time login. After signing up, student details will be added to the database. Later student can login using the credentials those were used during sign up.
U2F2	Log in	Student would be able to login using this feature. When user uses this feature, it must go

		to a web page that asks for login credentials. After entering username and password, user can login. After login, user will be redirected to profile page. Where student can perform other tasks.
U2F6	Profile View	By going to profile section, he/she can see his/her profile. By clicking on profile takes the user to his/her profile

2.3 Reviewer

FRID	NAME	Description
U3F1	Sign up	A reviewer can sign up to access the web portal for first time login. After signing up, reviewer details will be added to the database. Later reviewer can login using the credentials those were used during sign up.
U3F2	Log in	Teacher assistant would be able to login as reviewer using this feature. When user uses this feature, it must go to a web page that asks for login credentials. After entering username and password, user can log in. After logging in, user will be redirected to profile page. Where reviewer can perform other tasks.
U3F6	Profile View	By going to profile section, he/she can see his/her profile. By clicking on profile takes the user to his/her profile

3. Functional Requirements (Not Implemented)

3.1 Course Instructor

FRID	NAME	Description	Why Not Implemented in this Build?
U1F4	Add Project Info	Course instructor would add mini project details and guidelines. After using this feature, all the details will be updated to the course. All these details will be saved on that course data.	Need to explore Django Tried but debugger didn't give sufficient information to solve the issue
U1F5	Assign Reviewer	Course instructor assigns reviewers to the projects submitted by the students.	This can be done only after adding Project Info
U1F6	Assign Marks	Course instructor assigns marks to the projects on the basis of reviews and reports. After assigning marks, students will be able to see their marks. Project page would be updated.	This can be done only after adding Project Info
U1F7	Check Reviews	Course instructor can see reviews submitted by reviewers for which they were assigned.	This can be done only after adding Project Info
U1F8	Check Reports	Course instructor can check reports submitted by students.	This can be done only after adding Project Info
U1F9	Post Comments	Course instructor can post comments to the projects submitted referencing reviews. Comments will be added to database and would be available on that particular project page. Students can see	This can be done only after adding Project Info

		comments .	
U1F10	Add Student	Course instructor can add a student to the database. All details of student would be added. After adding a student to the portal, the student would be able to access the portal using login credentials.	Need to explore Django to explicitly add a user
U1F11	Add Reviewer	Course instructor can add a teacher assistant as a reviewer to the database. All details of reviewer would be added.	Need to explore Django to explicitly add a user
U1F12	Update Profile	Course instructor can update profile using this feature. Name, email and other details can be updated.	Couldn't get sufficient information from debugger.

3.2 Student

FRID	NAME	Description	Why Not Implemented in this Build?
U2F3	Update Profile	Student can update his profile. Name, email, contact number and password can be updated. After updating profile all the data would be saved to the database. Later it should show new details.	Couldn't get sufficient information from debugger.
U2F4	Submit Idea	Student can submit his project idea once is added to the database. It should be saved on the portal. Course instructor and reviewers must be able to see it later in order to check and validate.	U1F4 is required
U2F5	Submit Report	Student can submit report on the project. After report	U2F4 is required

		submission, report must be added to the database.	
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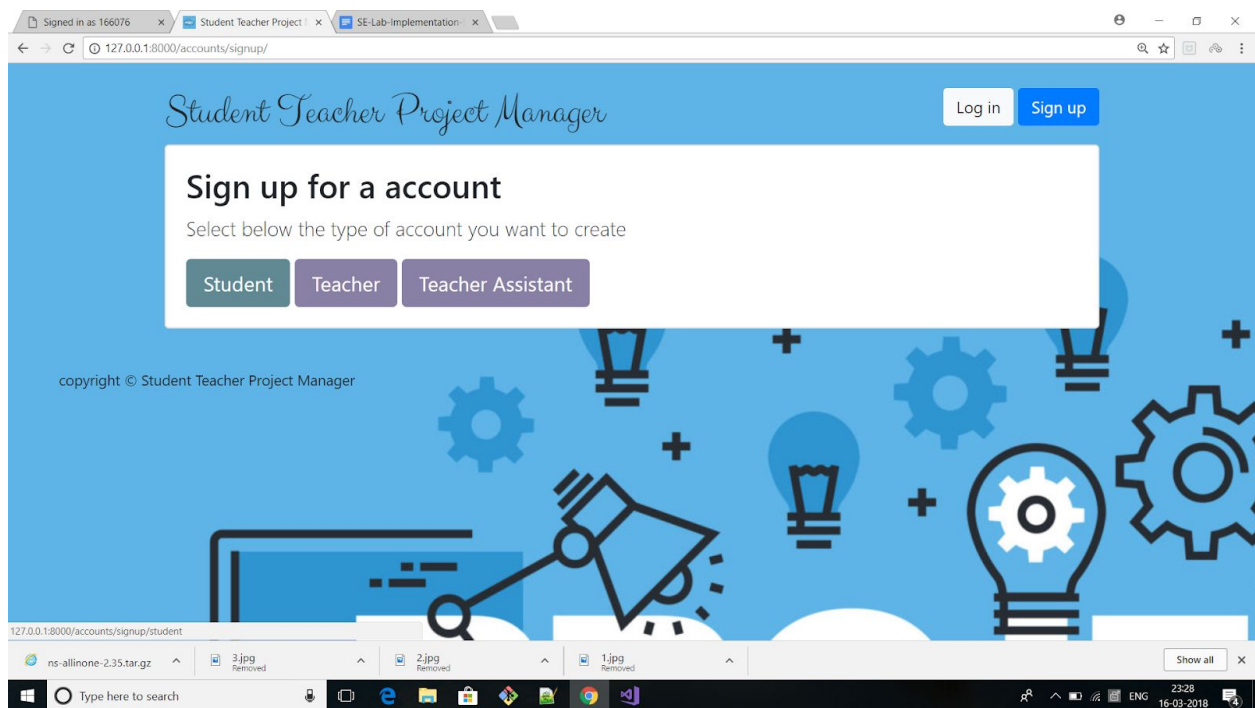
3.3 Reviewer

FRID	NAME	Description	Why Not Implemented in this Build?
U3F3	Update Profile	Teacher assistant can update its profile. Name, email, contact number and password can be updated. After updating profile all the data would be saved to the database. Later it should show new details.	Couldn't get sufficient information from debugger.
U3F4	Check Project Details	Reviewer can check project idea and reports submitted by students.	U1F4 is required
U3F5	Submit Review	Reviewer can submit review after checking project idea and reports submitted by students.	U1F4 is required

4. Screenshots

4.1 Course Instructor

4.1.1. U1F1: Sign Up



Student Teacher Project Manager

Signed in as 166076 x Student Teacher Project x SE-Lab-Implementation x

127.0.0.1:8000/accounts/signup/teacher

Student Teacher Project Manager

Log in Sign up

Sign up as a teacher

Username*

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password*

Password confirmation*

Enter the same password as before, for verification.

Sign up

ns-allinone-2.35.tar.gz 3.jpg Removed 2.jpg Removed 1.jpg Removed Show all x

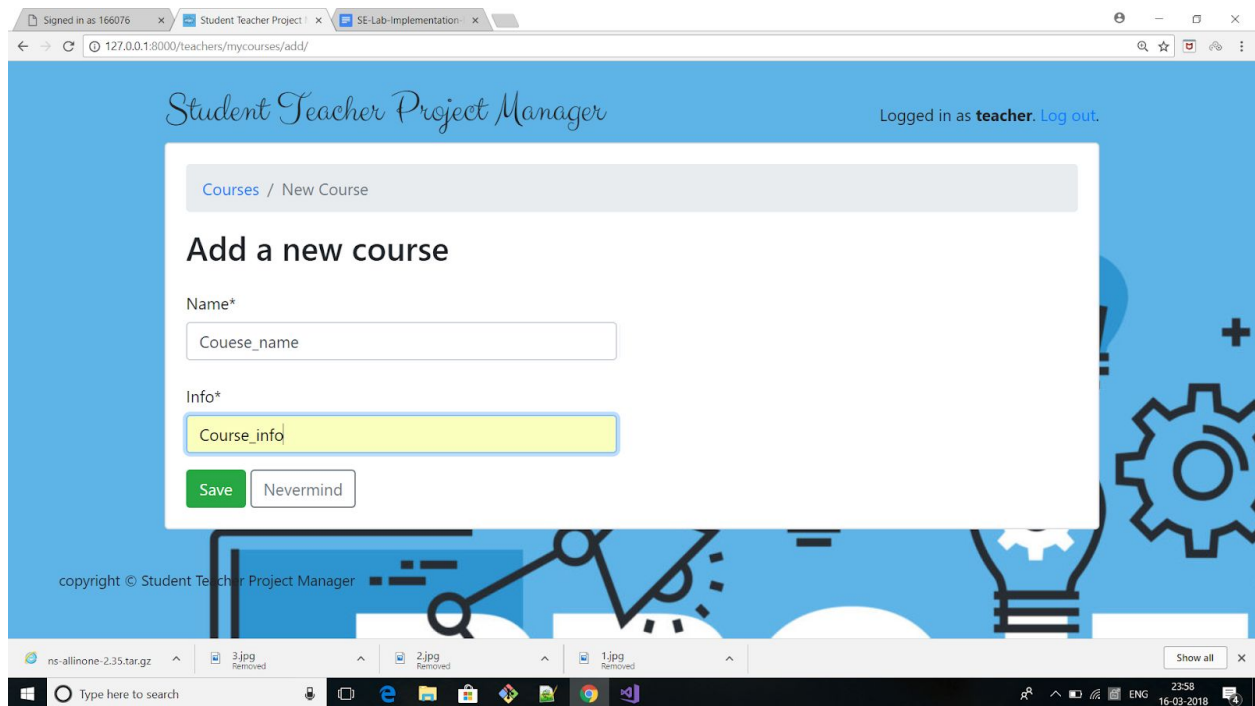
Type here to search

23:51 16-03-2018

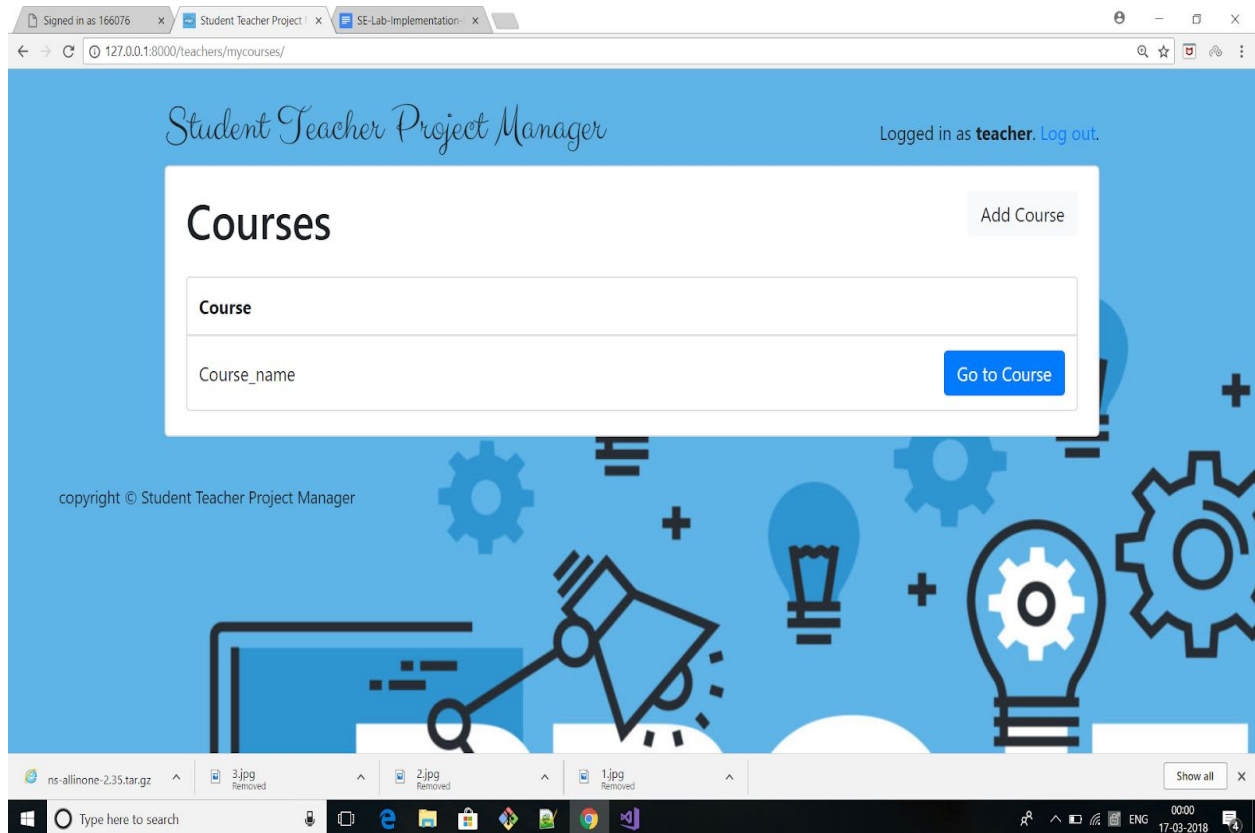
4.1.2. U1F2: Log In



4.1.3. U1F3: Add Course

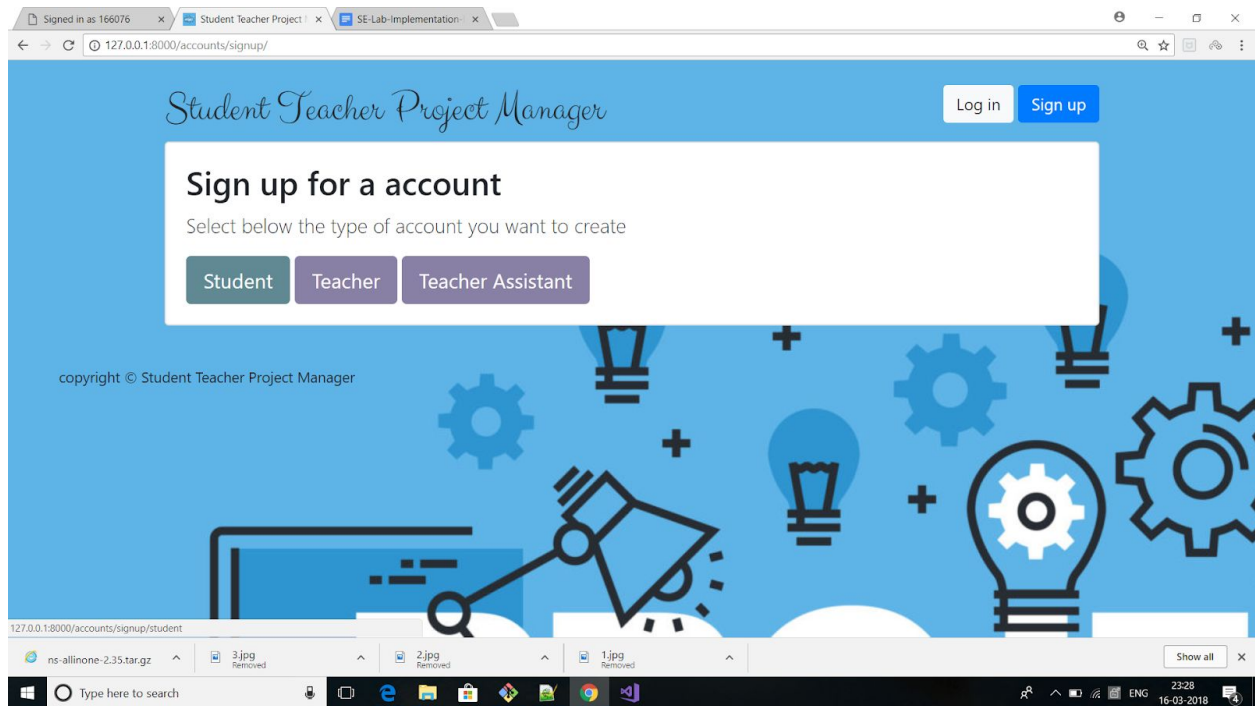


4.1.4. U1F13: Profile View



4.2 Student

4.2.1. U2F1: Sign Up



Student Teacher Project Manager

The screenshot shows a web browser window with the URL `127.0.0.1:8000/accounts/signup/student`. The page has a blue header with the title "Student Teacher Project Manager" and buttons for "Log in" and "Sign up". The main content area is a white box titled "Sign up as a student". It contains three input fields: "Username*" with the value "student", "Password*", and "Password confirmation*". Below the username field is a note: "Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only." Below the password confirmation field is a note: "Enter the same password as before, for verification." A green "Sign up" button is at the bottom of the form. The browser's taskbar at the bottom shows several open files: "ns-allinone-2.35.tar.gz", "3.jpg", "2.jpg", and "1.jpg", all marked as "Removed". The system tray on the right shows the time as 00:04 on 17-03-2018.

Signed in as 166076 x Student Teacher Project x SE-Lab-Implementation x

127.0.0.1:8000/accounts/signup/student

Student Teacher Project Manager

Log in Sign up

Sign up as a student

Username*

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password*

Password confirmation*

Enter the same password as before, for verification.

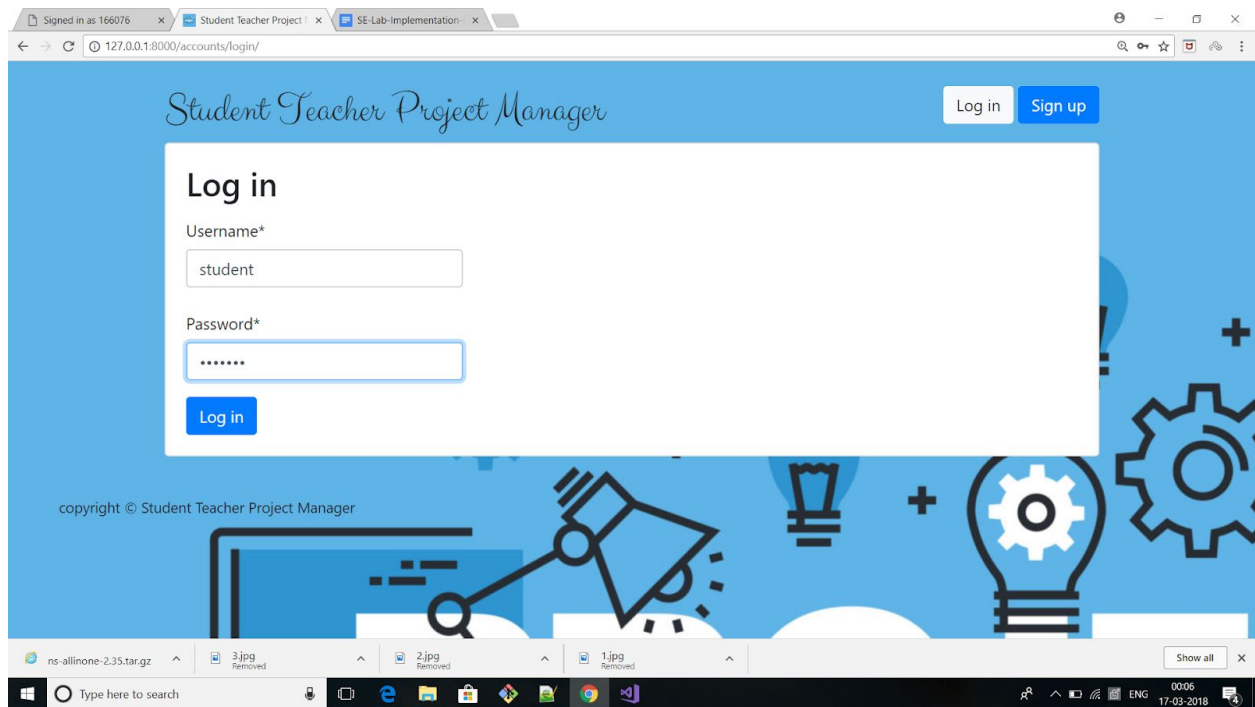
Sign up

ns-allinone-2.35.tar.gz 3.jpg Removed 2.jpg Removed 1.jpg Removed Show all

Type here to search

00:04 17-03-2018

4.2.1. U2F2: Sign In



4.2.3. U2F6: Profile View

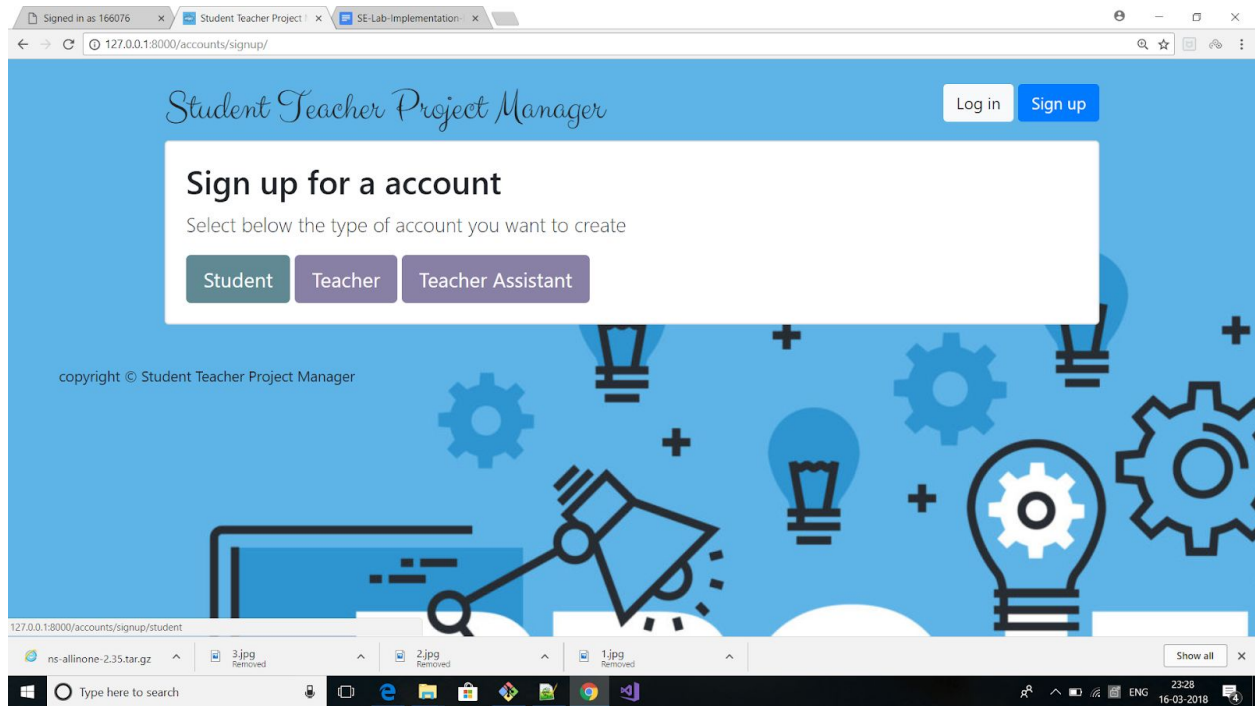
The screenshot displays a web browser window with the URL `127.0.0.1:8000/students/courses/`. The page title is "Student Teacher Project Manager" and it shows the user is logged in as "student" with a "Log out" link. The main content area is titled "Courses" and contains a table with the following data:

Course	Teacher	
example	p	Go to Course
example	p	Go to Course
ex1	p	Go to Course
Course_name	teacher	Go to Course

The background of the page features a blue header and a decorative pattern of gears and a lightbulb. The footer includes the text "copyright © Student Teacher Project Manager". The browser's taskbar at the bottom shows several open files: "ns-allinone-2.35.tar.gz", "3.jpg", "2.jpg", and "1.jpg", along with the Windows search bar and system tray.

4.3 Reviewer

4.3.1. U3F1: Sign Up



The screenshot shows a web browser window with the URL `127.0.0.1:8000/accounts/signup/reviewer`. The page has a blue header with the title "Student Teacher Project Manager" and buttons for "Log in" and "Sign up". The main content area is a white box titled "Sign up as a reviewer". It contains three input fields: "Username*" with the value "reviewer", "Password*" with masked characters, and "Password confirmation*" also with masked characters. Below the password fields is a green "Sign up" button. A small note below the username field states: "Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only." The browser's taskbar at the bottom shows several open files and the system clock set to 00:11 on 17-03-2018.

Student Teacher Project Manager

Log in Sign up

Sign up as a reviewer

Username*

reviewer

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password*

.....

Password confirmation*

.....

Enter the same password as before, for verification.

Sign up

4.3.2. U3F2: Sign In

The screenshot shows the same web browser window, but the URL is now `127.0.0.1:8000/accounts/login/`. The page displays a "Log in" form with a red error message at the top: "Please enter a correct username and password. Note that both fields may be case-sensitive." The form has two input fields: "Username*" with the value "reviewer" and "Password*" with masked characters. A blue "Log in" button is at the bottom of the form. The background of the page features a blue header with the title "Student Teacher Project Manager" and buttons for "Log in" and "Sign up". The browser's taskbar at the bottom shows the same files and system clock as the previous screenshot.

Student Teacher Project Manager

Log in Sign up

Please enter a correct username and password. Note that both fields may be case-sensitive.

Log in

Username*

reviewer

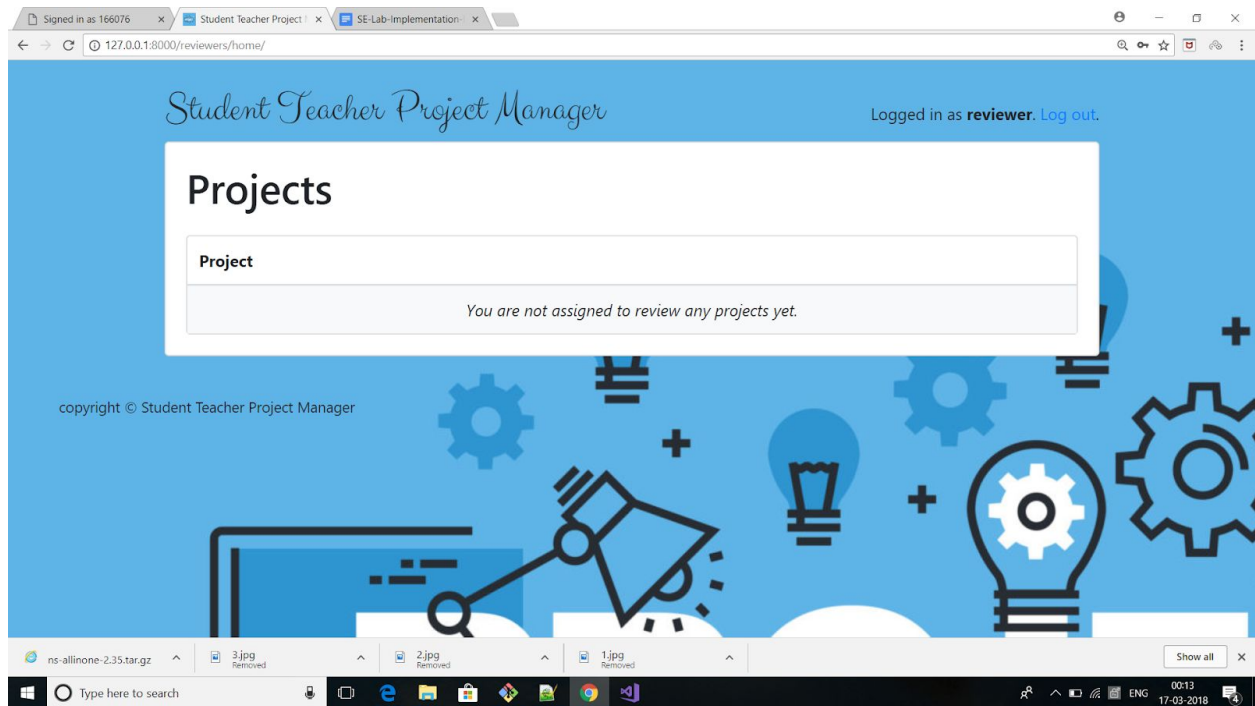
Password*

.....

Log in

copyright © Student Teacher Project Manager

4.3.3. U3F3 Profile View



5. Plan for Next Build / Release

- All non - functional requirements will be present in next build
- Most of non-functional requirements are present in current build. Other will be present in next build.
- We will review all the currently implemented requirements in the next build. Styling and Events functionalities would be added. Other other features would be added.
- Next build or release would contain more fascinating software. We would implement multiple courses. Also session validation and email feature would be added.

6. Summary

This report contains all the information about first build of the software. All information about APIs and technology used, how to run the software and

implemented functional and non-functional requirements is presented. Plan for next build is also given.

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