Software Engineering Lab
Implementation Report I - Build I

Student Teacher Project Manager

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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.	

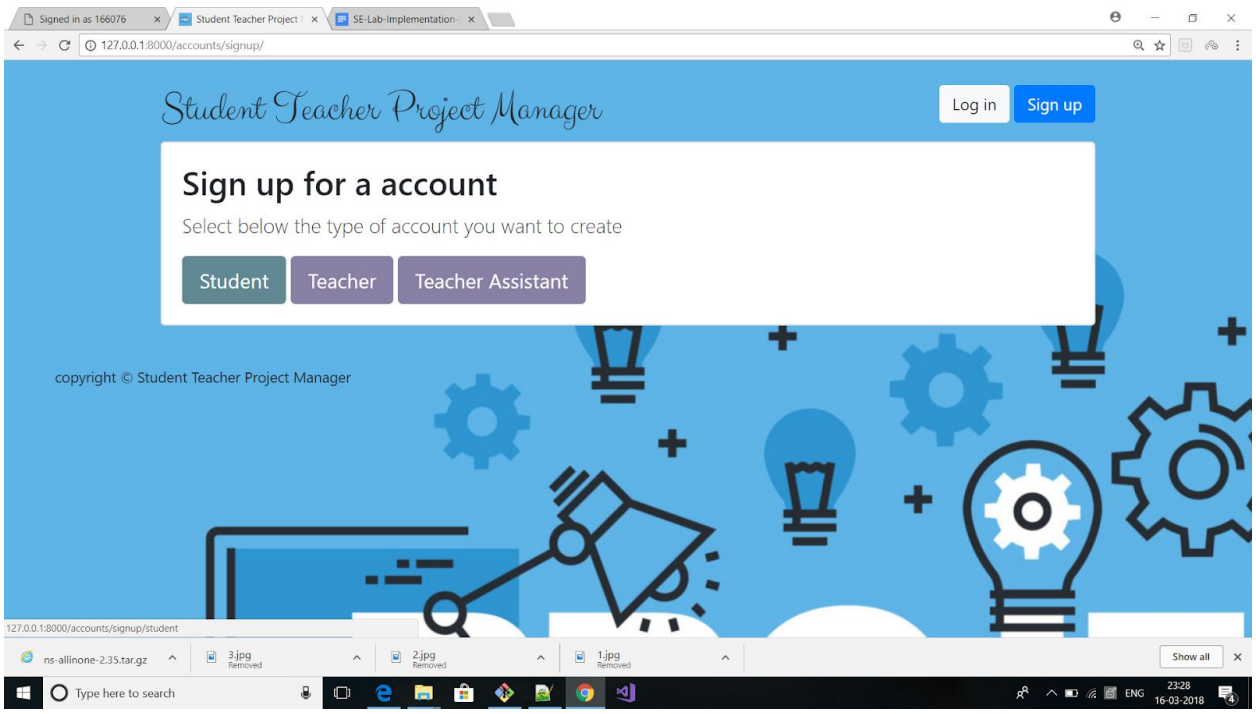
3.3 Reviewer

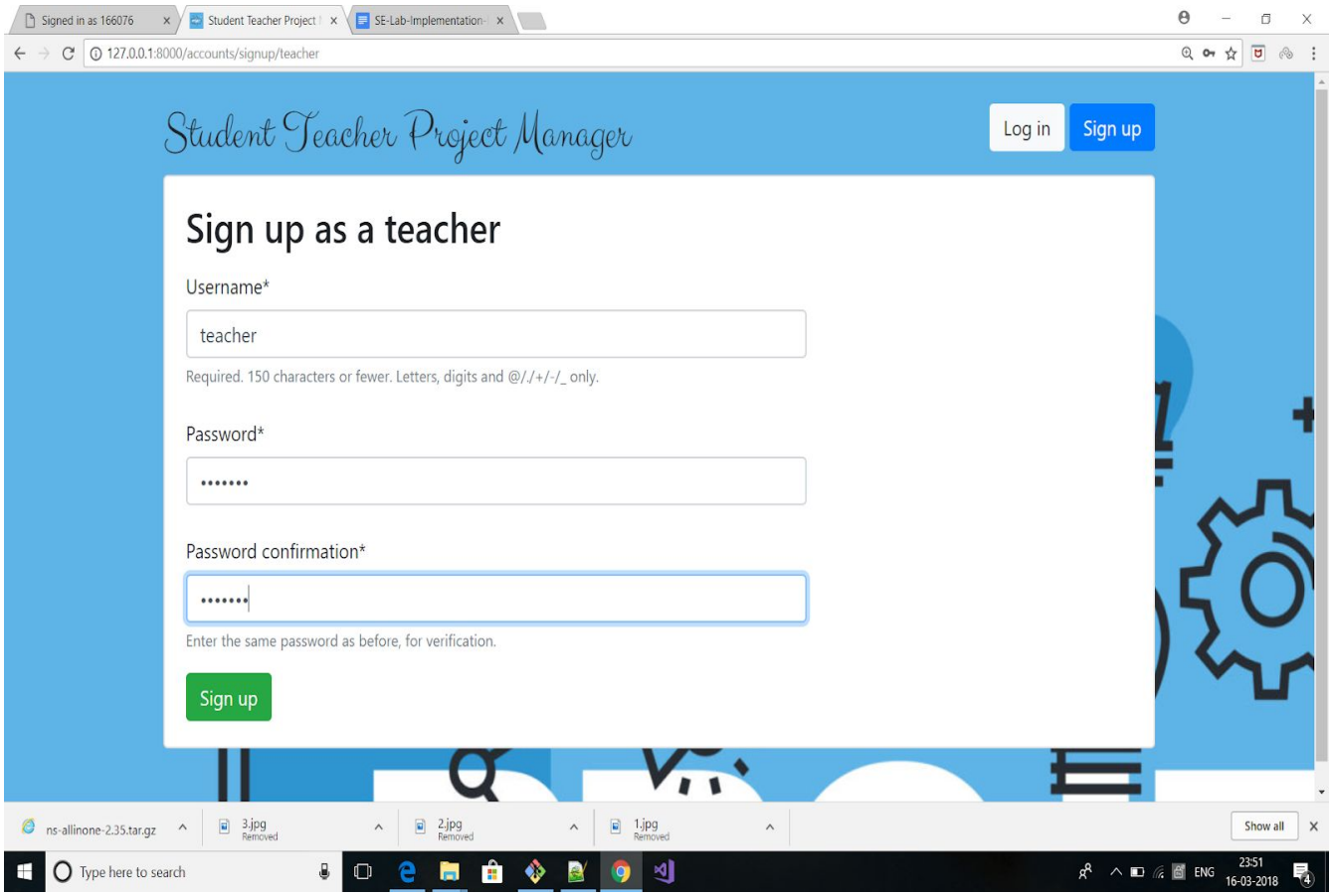
FRID	NAME	Description	Why Not Implemented in this Build?
U3F3	Update Profile	Teacher assistant can update its profile. Name, email, contact number and password can be updated.After updating profile all the data would be saved to the database. Later it should show new details.	Couldn't get sufficient 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

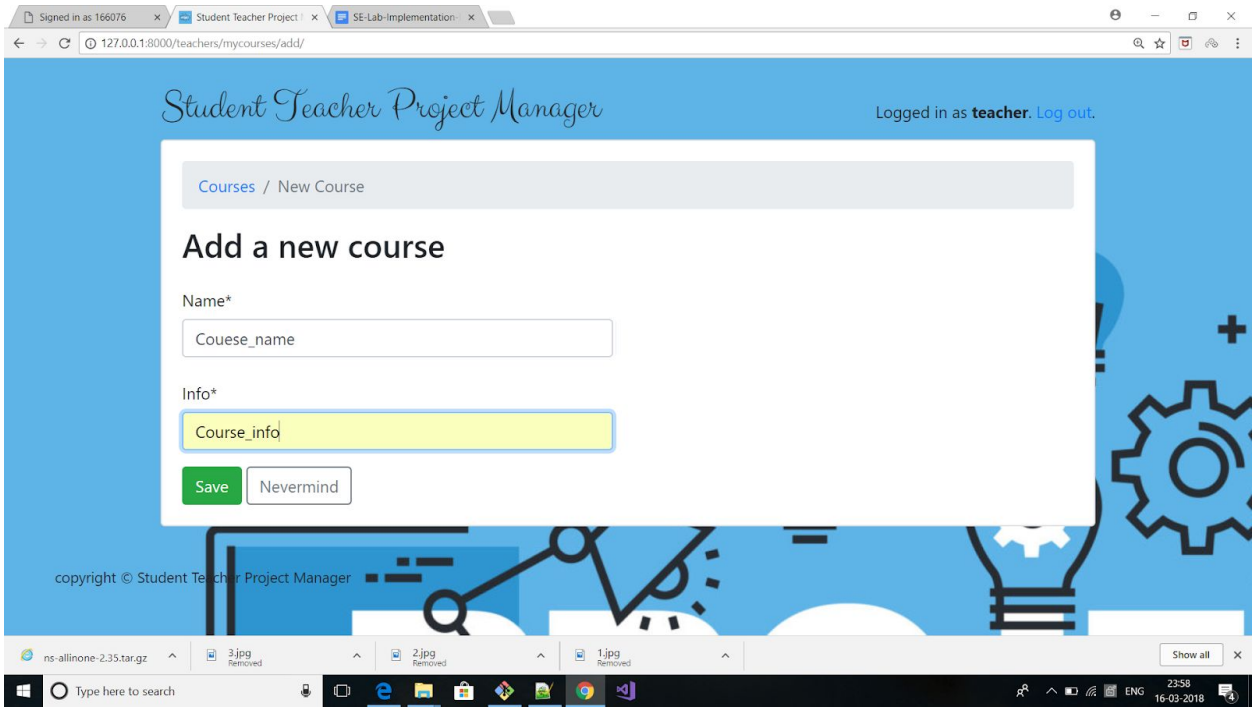
4.1.1. U1F1: Sign Up



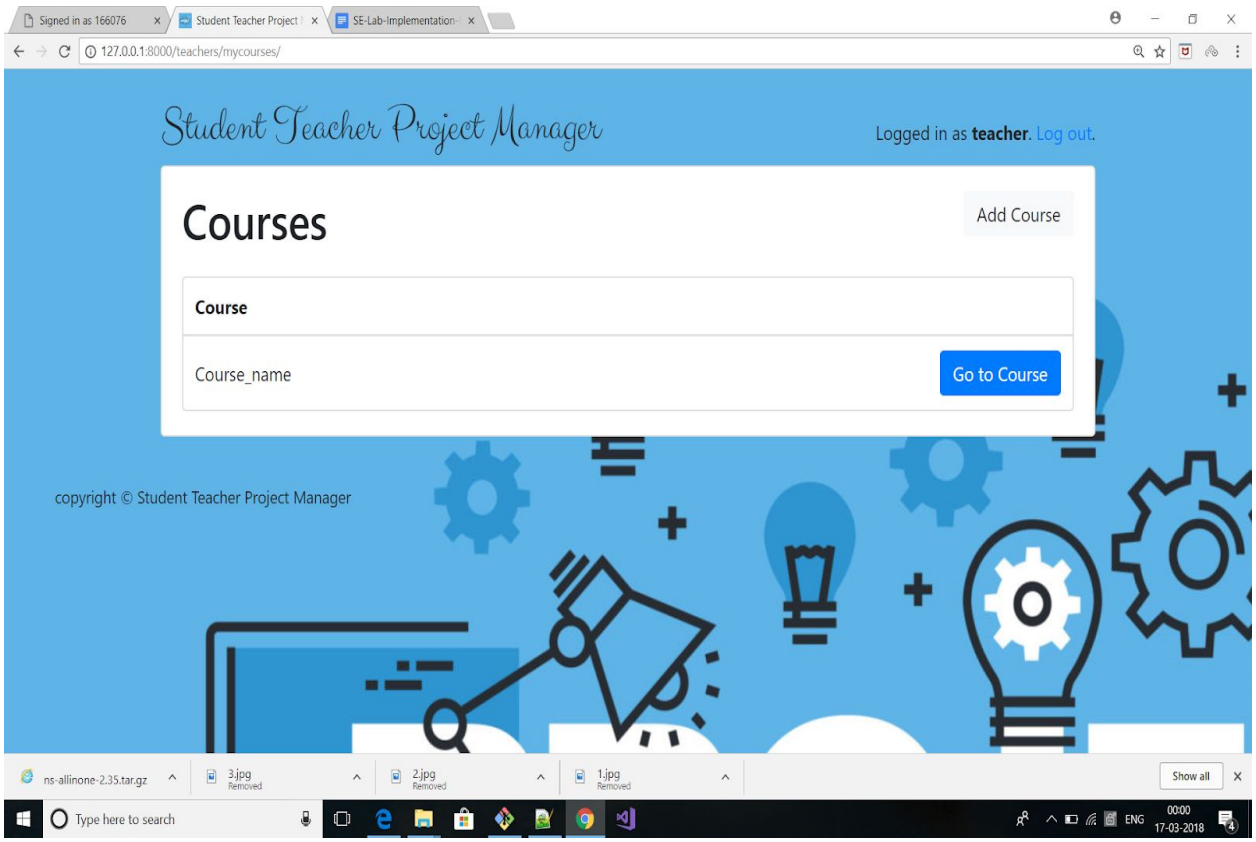

Signed in as 166076
Student Teacher Project
SE-Lab-Implementation-
127.0.0.1:8000/accounts/signup/teacher
Student Teacher Project Manager
Log in
Sign up
Sign up as a teacher
Username*
teacher
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.
Password*
Password confirmation*
Enter 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
ENG
23:51
16-03-2018

4.1.2. U1F2: Log In

4.1.3. U1F3: Add Course

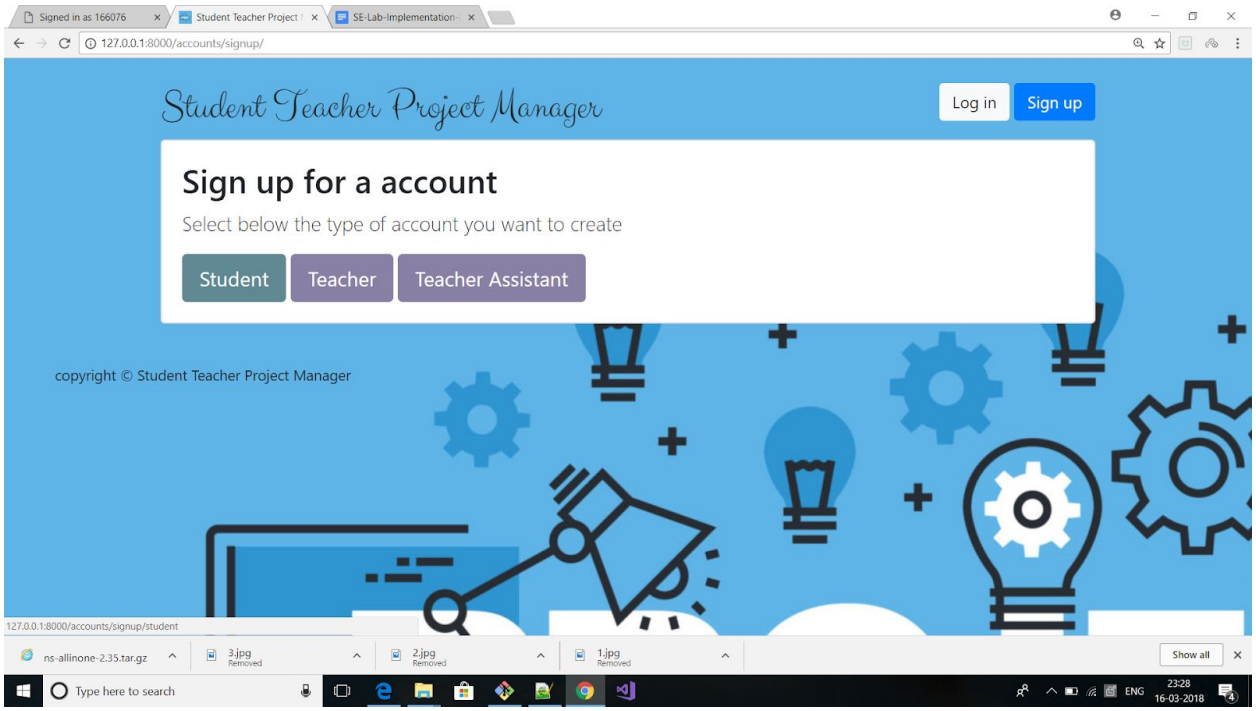


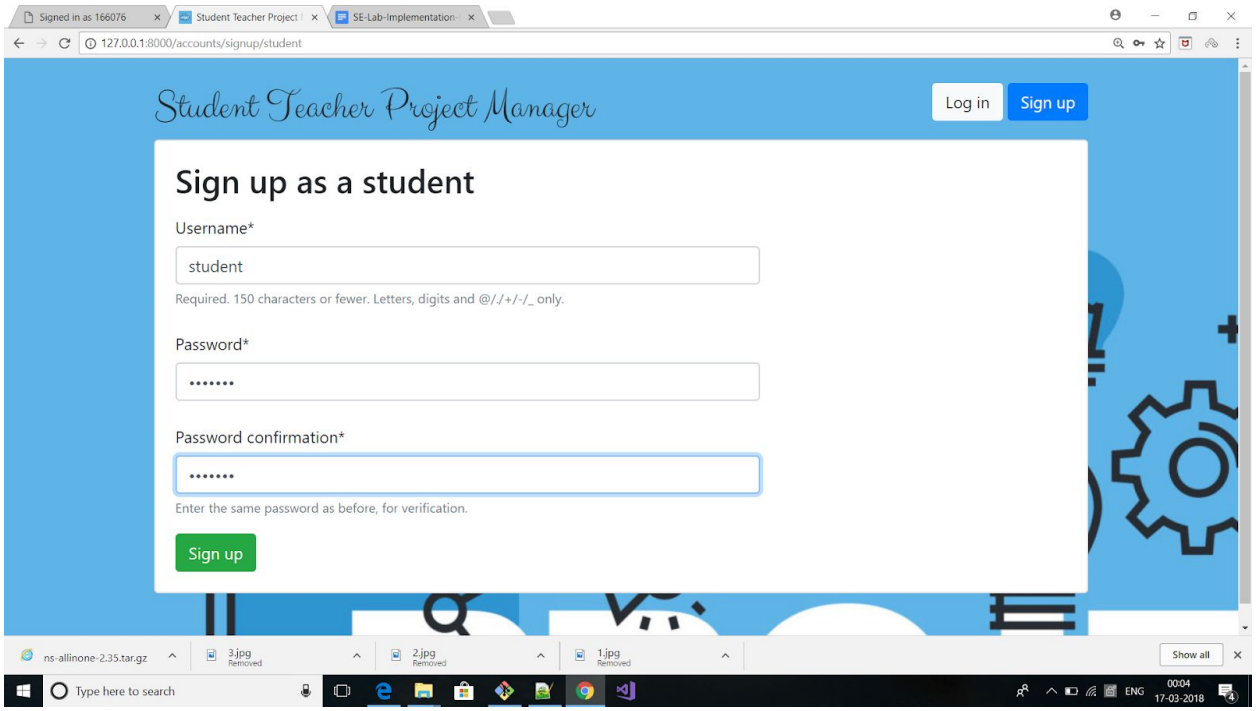
4.1.4. U1F13: Profile View



4.2 Student

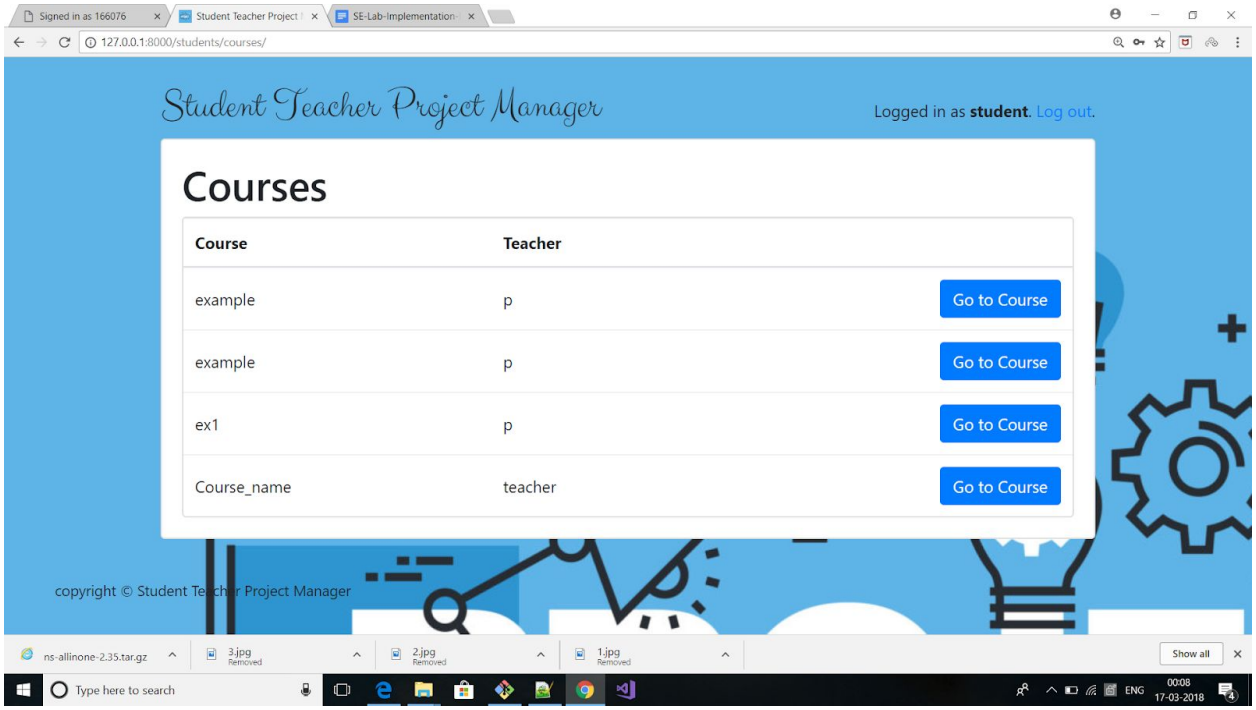
4.2.1. U2F1: Sign Up




Signed in as 166076
Student Teacher Project
SE-Lab-Implementation-
127.0.0.1:8000/accounts/signup/student
Student Teacher Project Manager
Log in
Sign up
Sign up as a student
Username*
student
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
ENG
00:04
17-03-2018

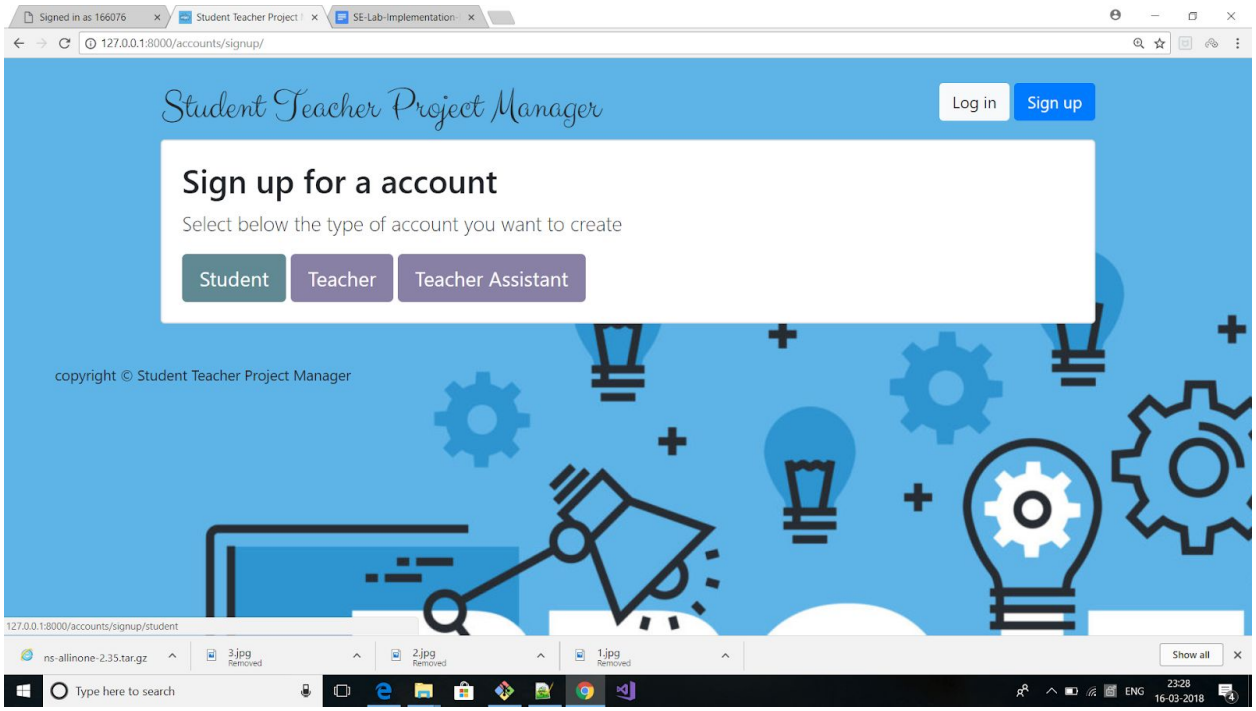
4.2.1. U2F2: Sign In

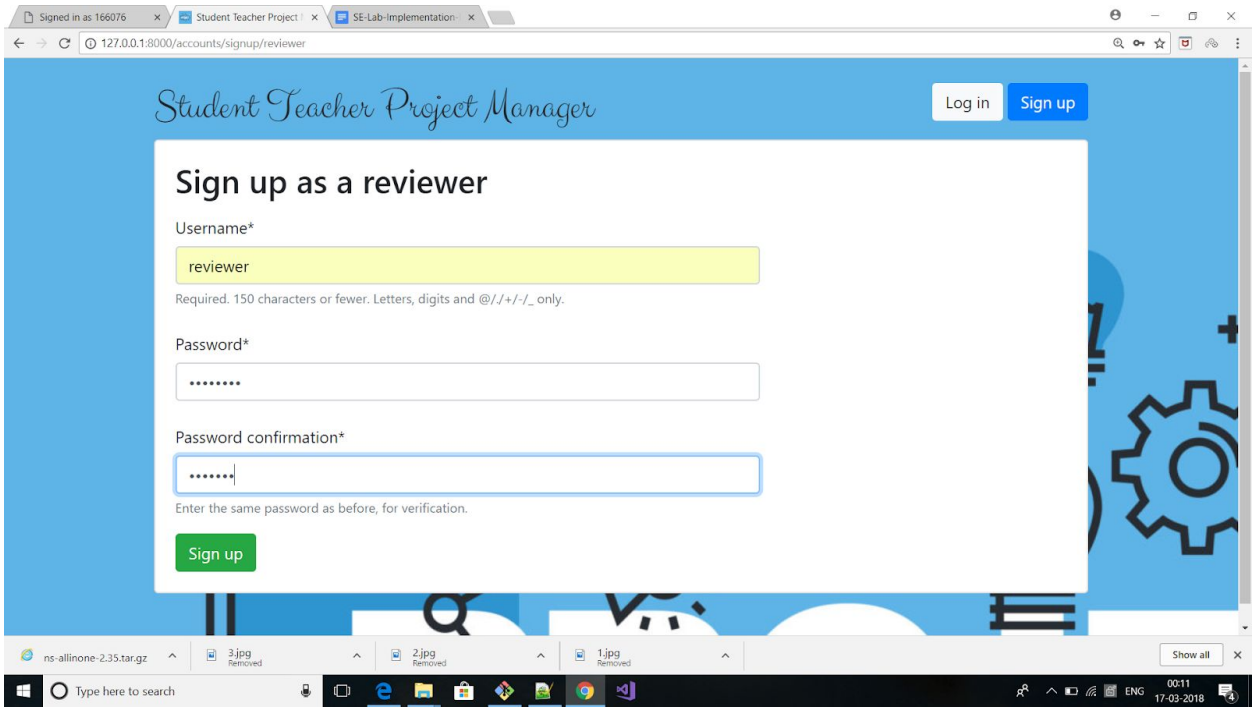
4.2.3. U2F6: Profile View



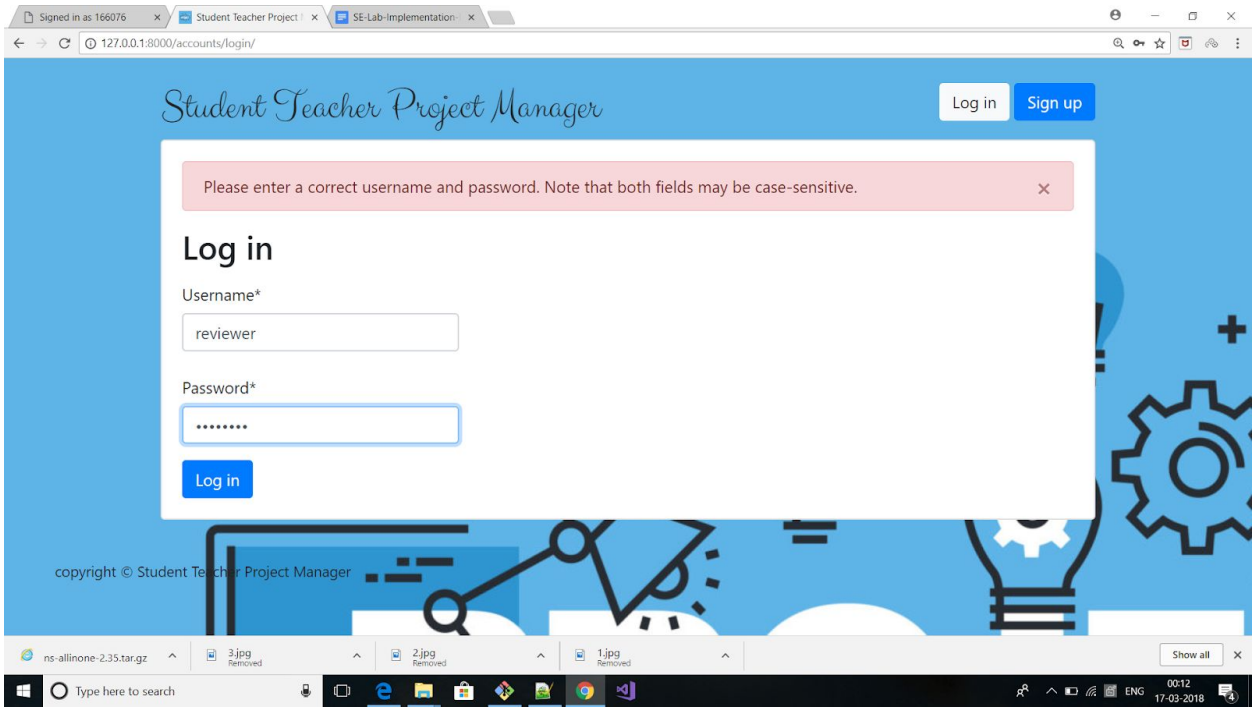
4.3 Reviewer

4.3.1. U3F1: Sign Up

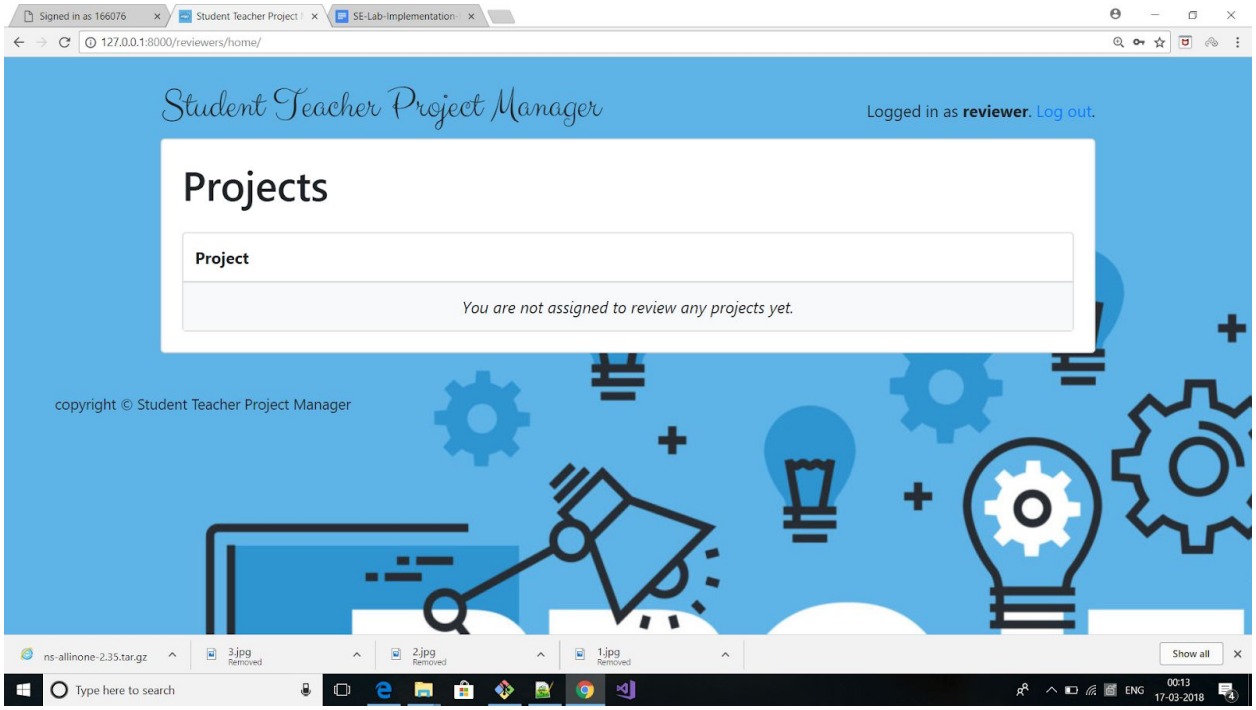




4.3.2. U3F2: Sign In



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.