SWE573 - SAVSHA WEP APPLICATION

CAN ALTIN 2021719006 03/01/2023

Git repository: SWE573-SDP-Can - https://github.com/canaltin-byte/SWE573-SDP-Can

Git tag version: https://github.com/canaltin-byte/SWE573-SDP-Can/releases/tag/0.9

Deployment URI: http://ec2-18-157-168-201.eu-central-1.compute.amazonaws.com:8000/

I Can Altın declare that:

- I am a student in the Software Engineering MS program at Bogazici University and am registered for Swe573 course during the 2022 Fall semester.

- All the material that I am submitting related to my project (including but not limited to the project repository, the final project report, and supplementary documents) have been exclusively prepared by myself.

- I have prepared this material individually without the assistance of anyone else with the exception of permitted peer assistance which I have explicitly disclosed in this report.

Name :

Signature:

Table of Contents

The Project SavSha

SavSha aims to provide an environment for users to keep important links by using title, label, message and origin features to make them unique. This environment requires a user registration to use.

Users can create a content and share it with their friends if they want. They can also set their sharings as private and keep them out of other peope's spaces.

I used Django default tables to keep user information. Login, register, edit user and password change pages are formed with the help of Django forms such as UserCreationForm, PasswordChangeForm, and UserChangeForm. Usage of these forms are found thanks to Django girls tutorials.

Project is deployed at this address http://ec2-18-157-168-201.eu-central-1.compute.amazonaws.com:8000/ and source code for this project is at https://github.com/canaltin-byte/SWE573-SDP-Can.

Registered Users for this website.

- Username: can.altin Password:Qwer89..
- Username: simay.gokalp Password:Asdf67,,
- Username: mert.altin Password:Zxcv45--

You can watch my video from https://www.youtube.com/watch?v=I4YMtlFgCUk about using SavSha effectively.

Software Requirements

Python 3.8.5 is required to run code. PostgreSQL database should be installed on the computer. Docker desktop or any similar application should be installed for dockerizing.

Django is used for backend and frontend management. HTML coding is completed with the help of bootstrap4 template.

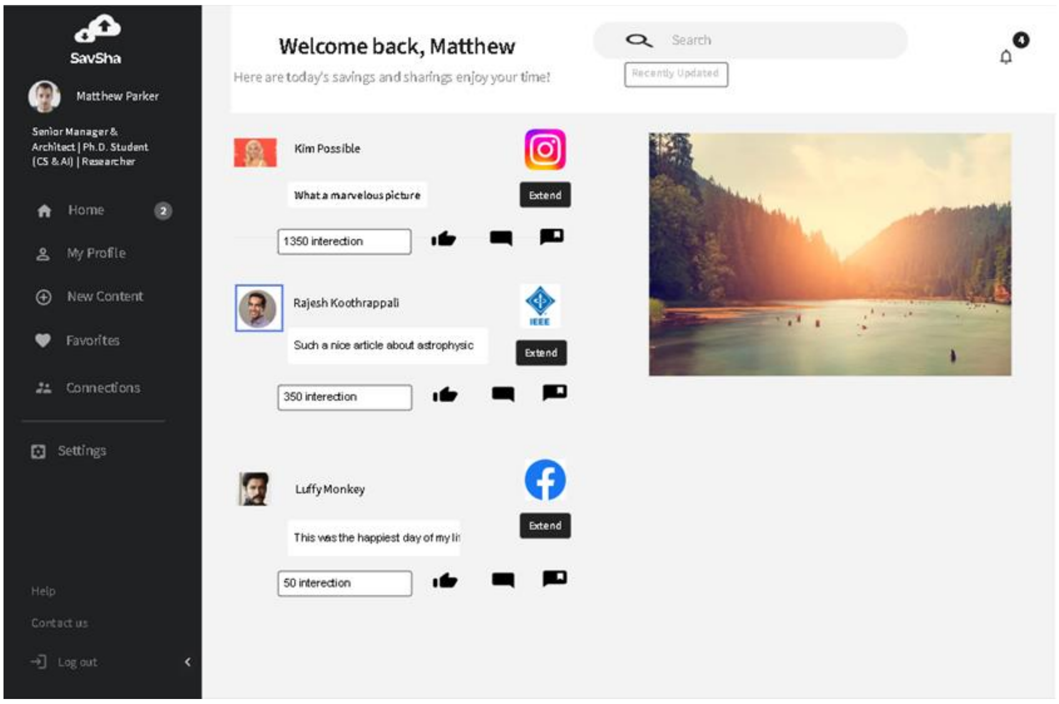
PostgreSQL is used for database management

Design

Mockup

Home Page

User opens website with this page. Home page includes other people's sharings and filter option for these sharings.



Welcome back, Matthew

Here are today's savings and sharings enjoy your time!

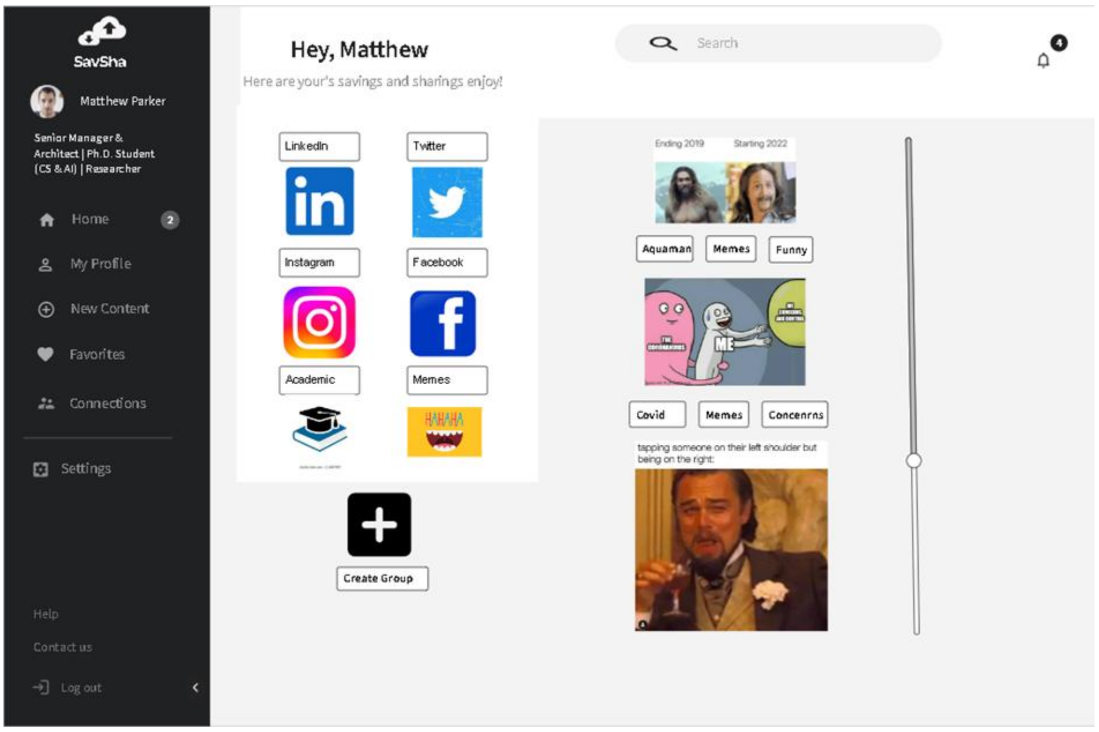
What a marvelous picture

Such a nice article about astrophysic

This was the happiest day of my li

My Profile

This page includes user's savings under some folders.

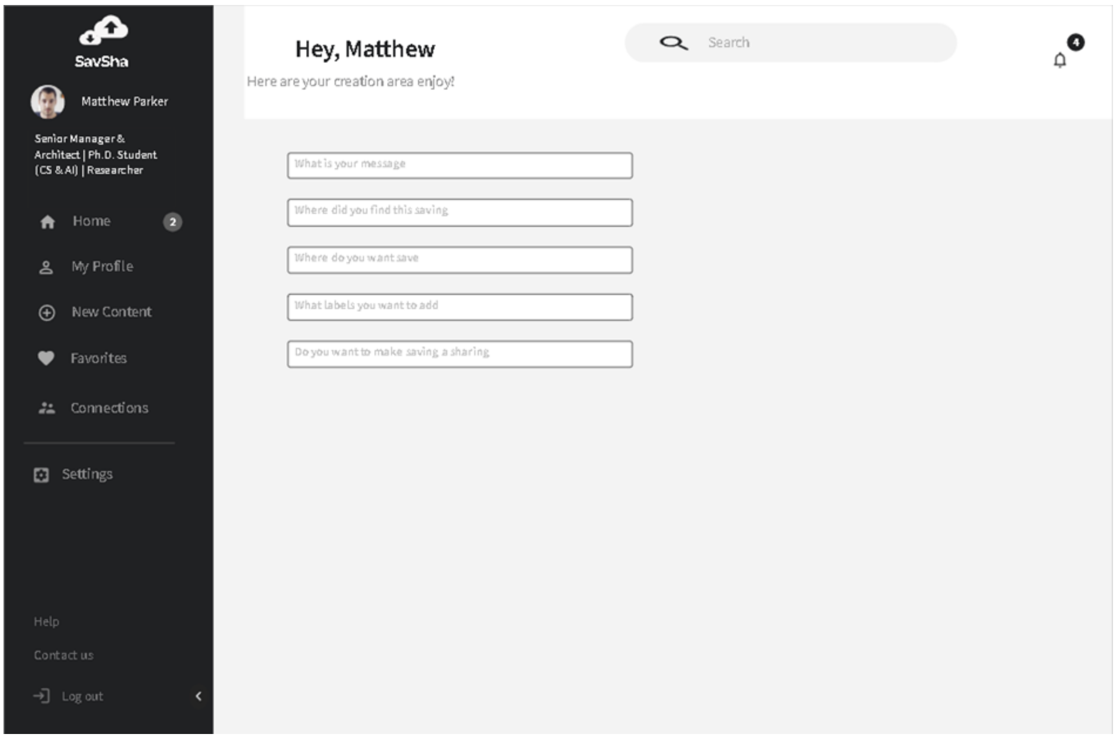


Hey, Matthew

Here are your's savings and sharings enjoy!

New Content

This is the page to create a new saving. Also, you can change your old savings here



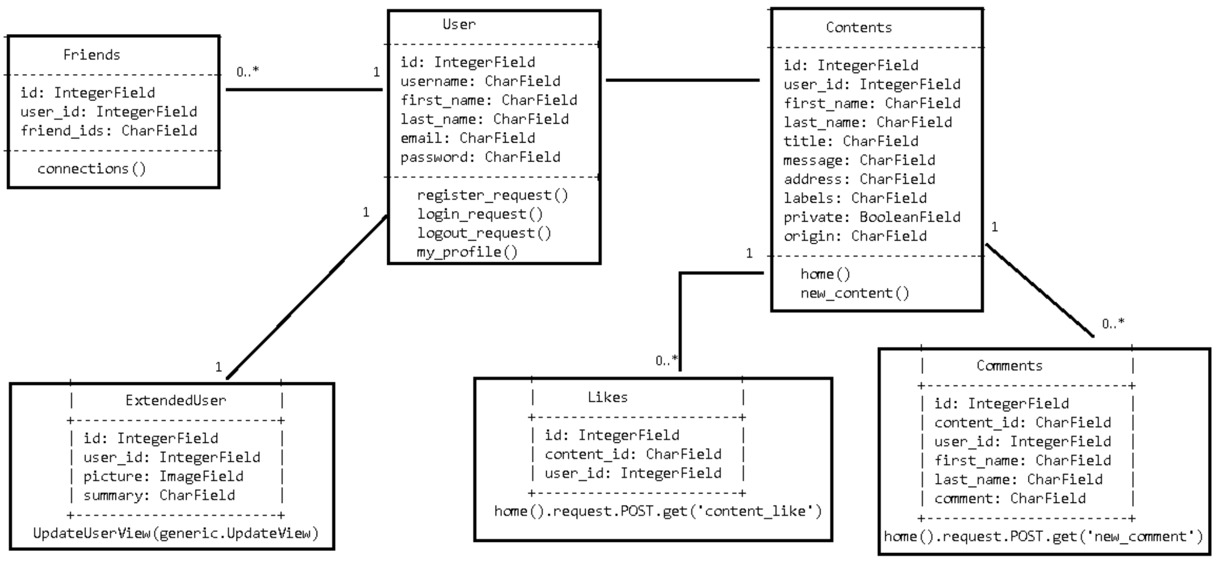
Hey, Matthew

Here are your creation area enjoy!

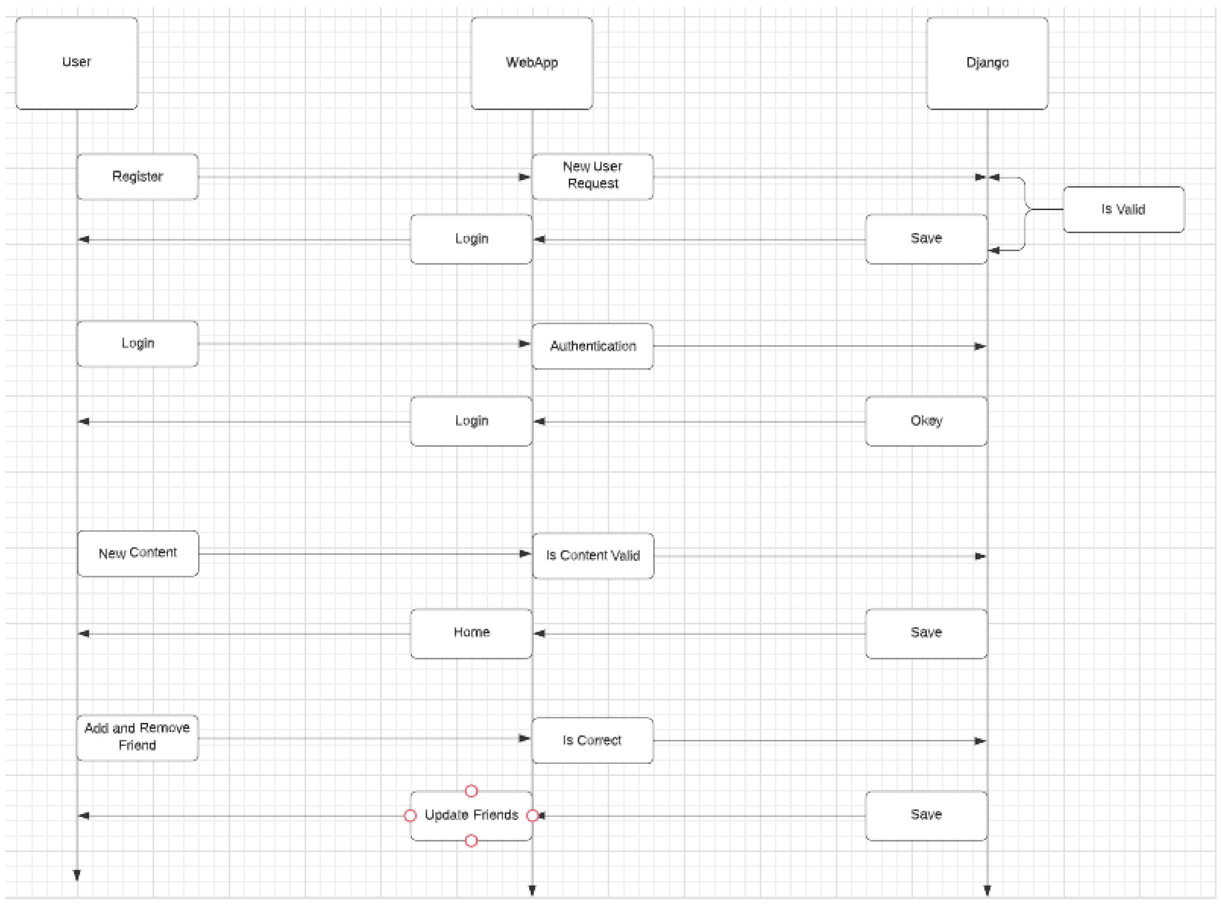
SavSha
Matthew Parker
Senior Manager & Architect | Ph.D. Student (CS & AI) | Researcher
Home
2
My Profile
New Content
Favorites
Connections
Settings
Help
Contact us
Log out
Search
4
What is your message
Where did you find this saving
Where do you want save
What labels you want to add
Do you want to make saving a sharing

UML Diagrams

Class Diagram



Sequence Diagram



Status of the Project

Requirements

Login

1.Users should be able to login with a nickname and a password.

2.Users can change password by sending an authentication number to email address in case of forgetting password.

3.Users shall be able to logout from the application anytime.

4.Users can enter application with saved password.

5.Administrators can enter website with specified id and passwords.

Profile

1.Users can add their names, pictures and summary about who they are.

2.Users can share their contact information.

Content Creation

1.Users can create their contents.

2.Users can make comments and put labels into their contents.

3.Users can take note the origin of content.

4.Users can make their contents into space while creating them.

5.Users can make their contents private whenever they desire.

Space

1.Users can create their contents in their space.

2.Users can make comments and put labels into their contents.

3.Users can share the origin of content.

Feedback

1.Users can like other users contents.

2.Users can make comments to other users' contents.

3.Users can see other users' contents more detailed with extend button.

4.All users can see interaction of a contents.

Search & Browser

1.Users can search other's contents via filtering throughout search method.

2.Users can browse thorough home page by filtering contents.

Most of the requirements is fulfilled before project deployed. Problematic requirements are specified below.

Second requirement in Login is not completed. I cannot send email to user, but user can change his/her password via using password change page.

First requirement in User is not completed. Users cannot add picture of themselves, but they can add other features to their profile information.

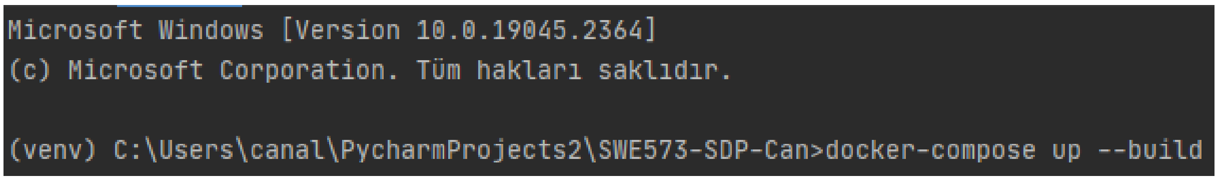
Status of Deployment

Project can be dockerized with the command of "docker-compose up –build". It can be used with http://localhost:8000/

Project is deployed at this url http://ec2-18-157-168-201.eu-central-1.compute.amazonaws.com:8000/ by using aws features.

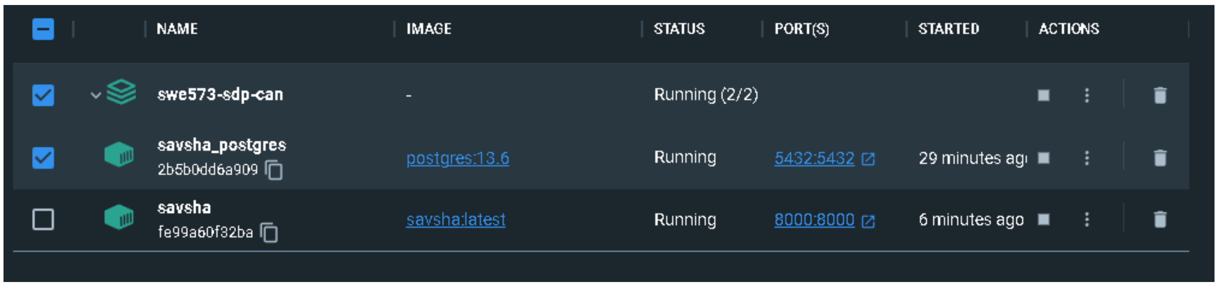
System Manual

Before "docker-compose up –build" directory should show where the project is.



```
Microsoft Windows [Version 10.0.19045.2364]
(c) Microsoft Corporation. Tüm hakları saklıdır.

(venv) C:\Users\canal\PycharmProjects2\SWE573-SDP-Can>docker-compose up --build
```

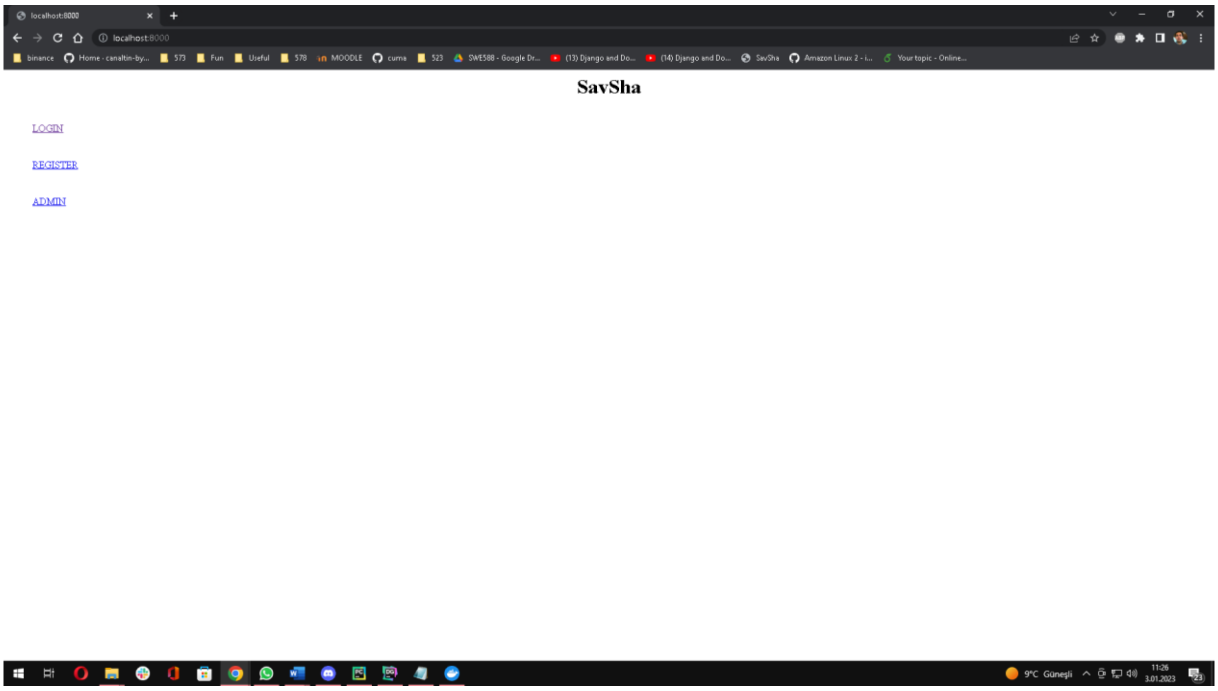
If you cannot connect website with this url http://localhost:8000/ you can restart from Containers at the column of ACTIONS.



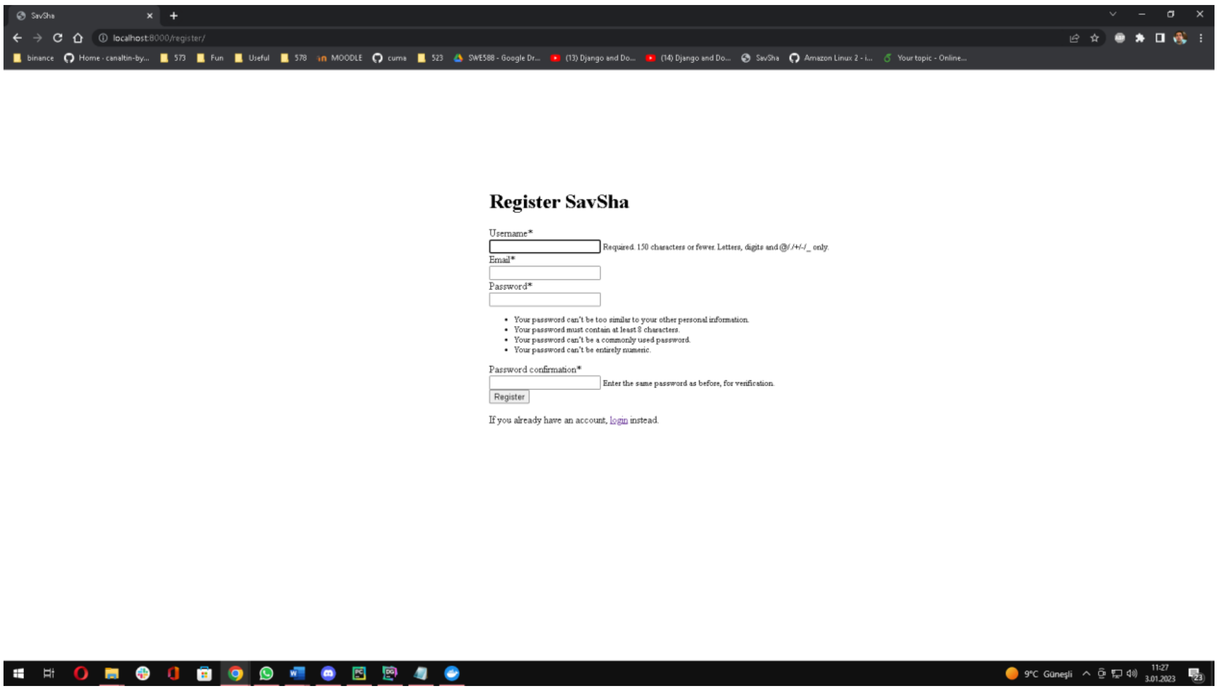
NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
swe573-sdp-can	-	Running (2/2)			
savsha_postgres 2b5b0dd6a909	postgres:13.6	Running	5432:5432	29 minutes ag	
savsha fe99a60f82ba	savsha:latest	Running	8000:8000	6 minutes ago	

User Manual

This is the first page of the application users can login or register from here.



This is register page new users can register from this page



Register SavSha

Username*

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

Email*

Password*

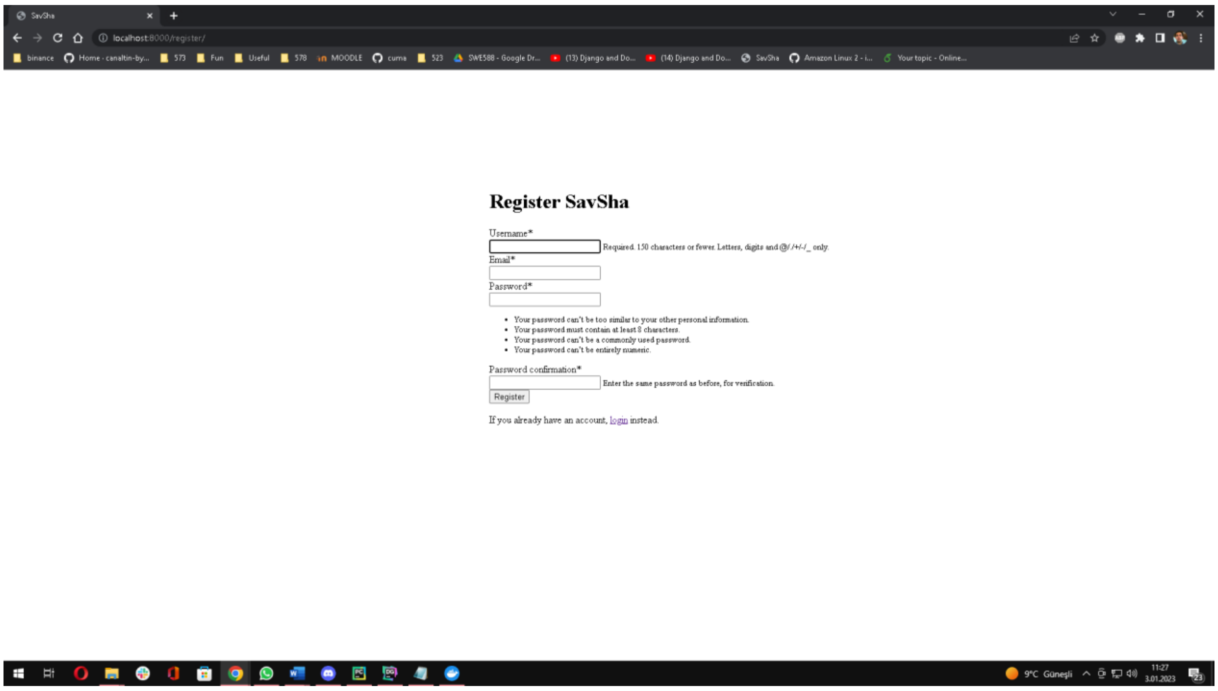
- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation*

Enter the same password as before, for verification.

If you already have an account, login instead.

This is the login page you can login application from here if you are already a registered user



Register SavSha

Username*

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

Email*

Password*

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

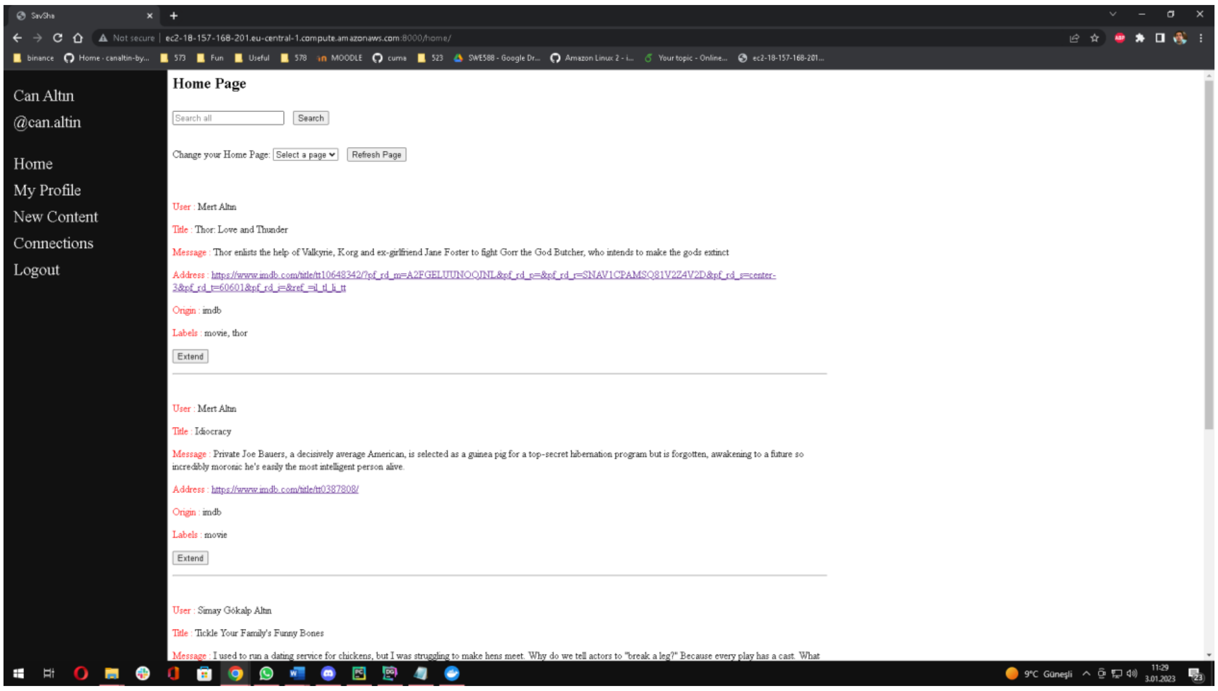
Password confirmation*

Enter the same password as before, for verification.

Register

If you already have an account, login instead.

Home Page has a search option people can search through all contents with specified text. Change your Home Page option is here to change contents in the Home Page. People can select All Sharings to see all contents from other users, My Space to see their friends sharings, My Savings to see contents which are uploaded by user.



Can Altın
@can.altin

Home
My Profile
New Content
Connections
Logout

Home Page

Search all | Search

Change your Home Page: Select a page | Refresh Page

User : Mert Altın

Title : Thor: Love and Thunder

Message : Thor enlists the help of Valkyrie, Korg and ex-girlfriend Jane Foster to fight Gorr the God Butcher, who intends to make the gods extinct

Address : https://www.imdb.com/title/tt10648342/?pf_rd_m=A2FGELUUNOQJNL&pf_rd_p=&pf_rd_r=SNAV1CPAMSQ81V2Z4V2D&pf_rd_s=center-3&pf_rd_t=60601&pf_rd_i=&ref_=il_tl_li_tt

Origin : imdb

Labels : movie, thor

Extend

User : Mert Altın

Title : Idiocracy

Message : Private Joe Bauers, a decisively average American, is selected as a guinea pig for a top-secret hibernation program but is forgotten, awakening to a future so incredibly moronic he's easily the most intelligent person alive.

Address : https://www.imdb.com/title/tt0387808/

Origin : imdb

Labels : movie

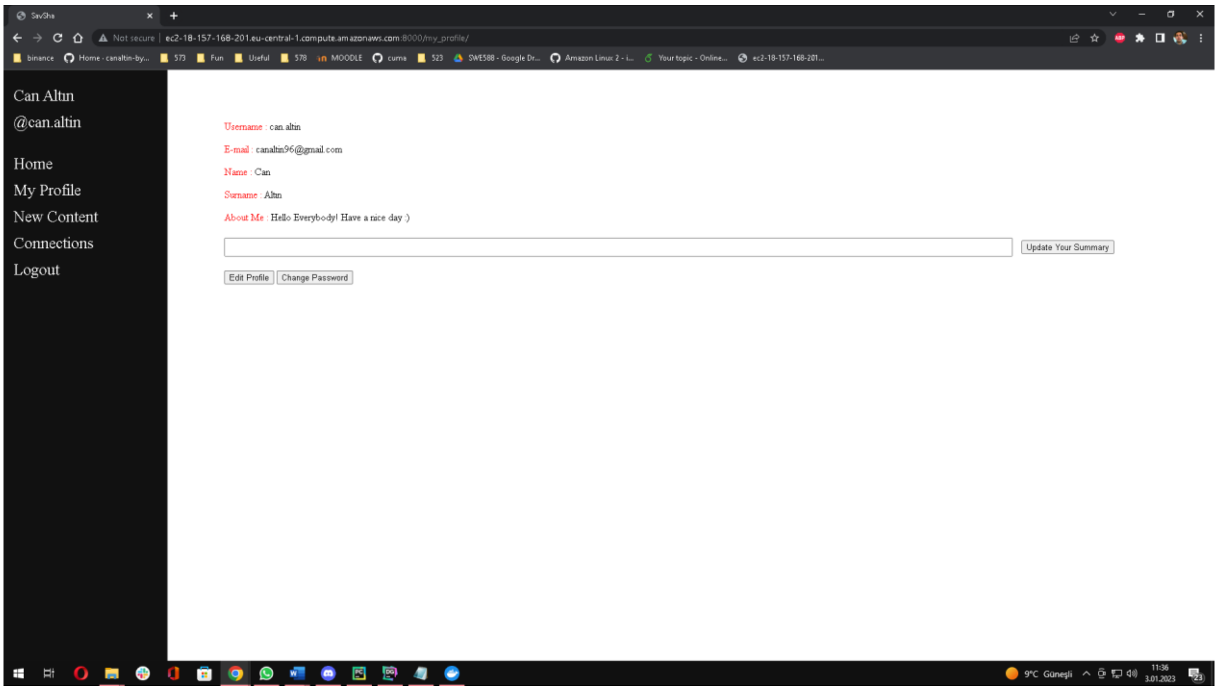
Extend

User : Simay Gökalp Altın

Title : Tickle Your Family's Funny Bones

Message : I used to run a dating service for chickens, but I was struggling to make hens meet. Why do we tell actors to "break a leg?" Because every play has a cast. What

My Profile page shows user's information. User can change or add About Me column by completing "update my summary" part. Edit Profile button transfer users to a page that user can change his/her username, name, surname and email address. Change Password button let user to change his/her password after entering the old password.



Username : can.altin

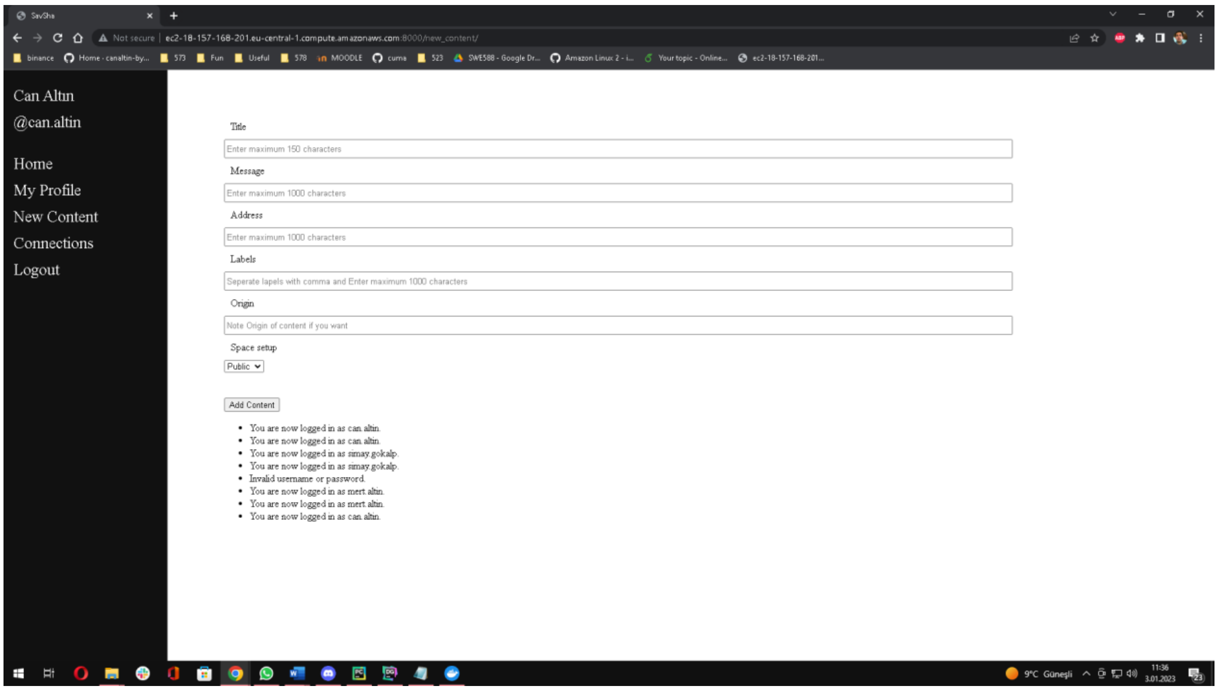
E-mail : canaltin96@gmail.com

Name : Can

Surname : Altın

About Me : Hello Everybody! Have a nice day :)

Users can create new content at New Content page. Title, Message, Address, and Labels are mandatory fields and Origin is optional. Space setup let users to create content just for themselves.


SavSha
Not secure | ec2-18-157-168-201.eu-central-1.compute.amazonaws.com:8000/new_content/
Can Altın
@can.altin
Home
My Profile
New Content
Connections
Logout
Add Content

Title: Enter maximum 150 characters

Message: Enter maximum 1000 characters

Address: Enter maximum 1000 characters

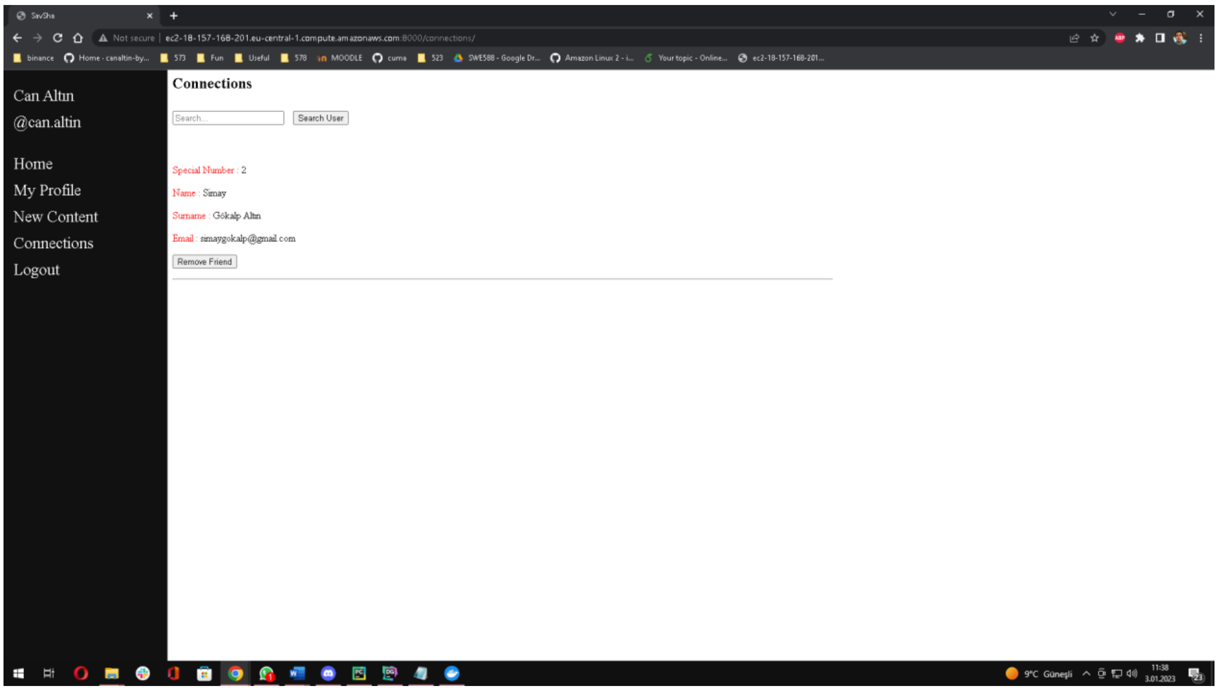
Labels: Seperate lapels with comma and Enter maximum 1000 characters

Origin: Note Origin of content if you want

Space setup: Public

- You are now logged in as can.altin.
- You are now logged in as can.altin.
- You are now logged in as simay.gokalp.
- You are now logged in as simay.gokalp.
- Invalid username or password.
- You are now logged in as mert.altin.
- You are now logged in as mert.altin.
- You are now logged in as can.altin.

Users can see their friends at Connections page and they can remove their friends with Remove Friend button


Can Altın
@can.altin

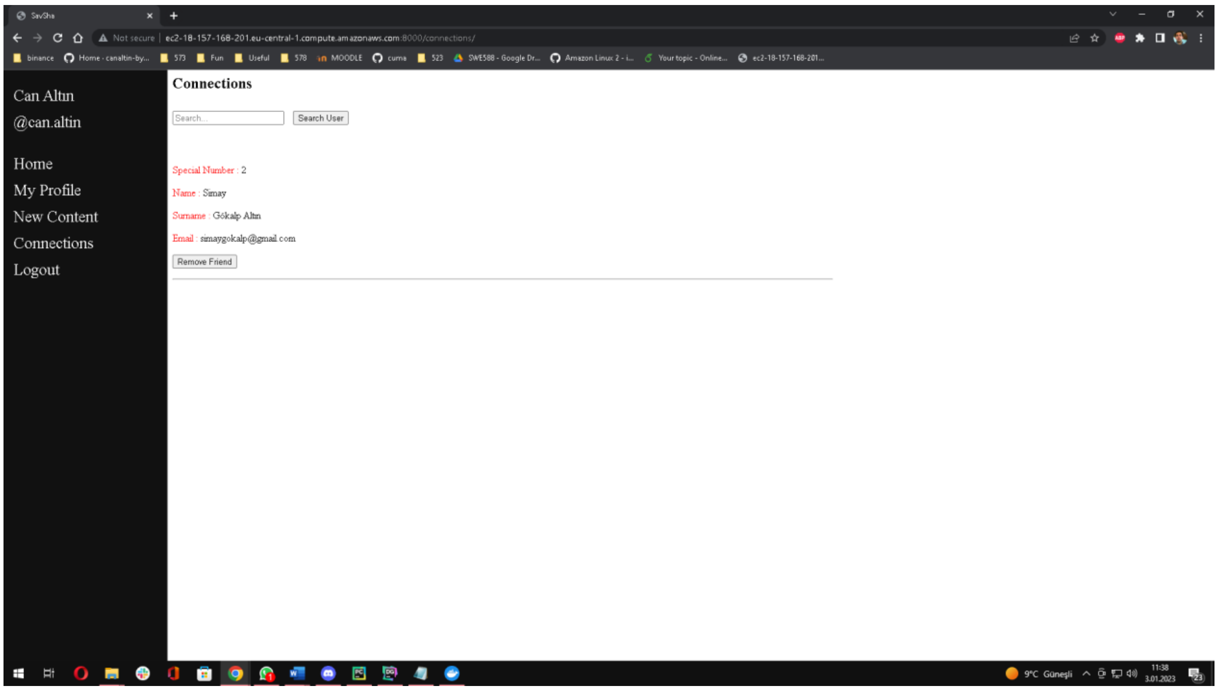
Home
My Profile
New Content
Connections
Logout

Connections

Search... | Search User

Special Number : 2
Name : Simay
Surname : Gökalp Altın
Email : simaygokalp@gmail.com
Remove Friend

Users can search other people by using Search User button or they can type “all” to see all registered users. Also, users can add friend by using Add Friend button at this page.


Can Altın
@can.altin

Home
My Profile
New Content
Connections
Logout

Connections

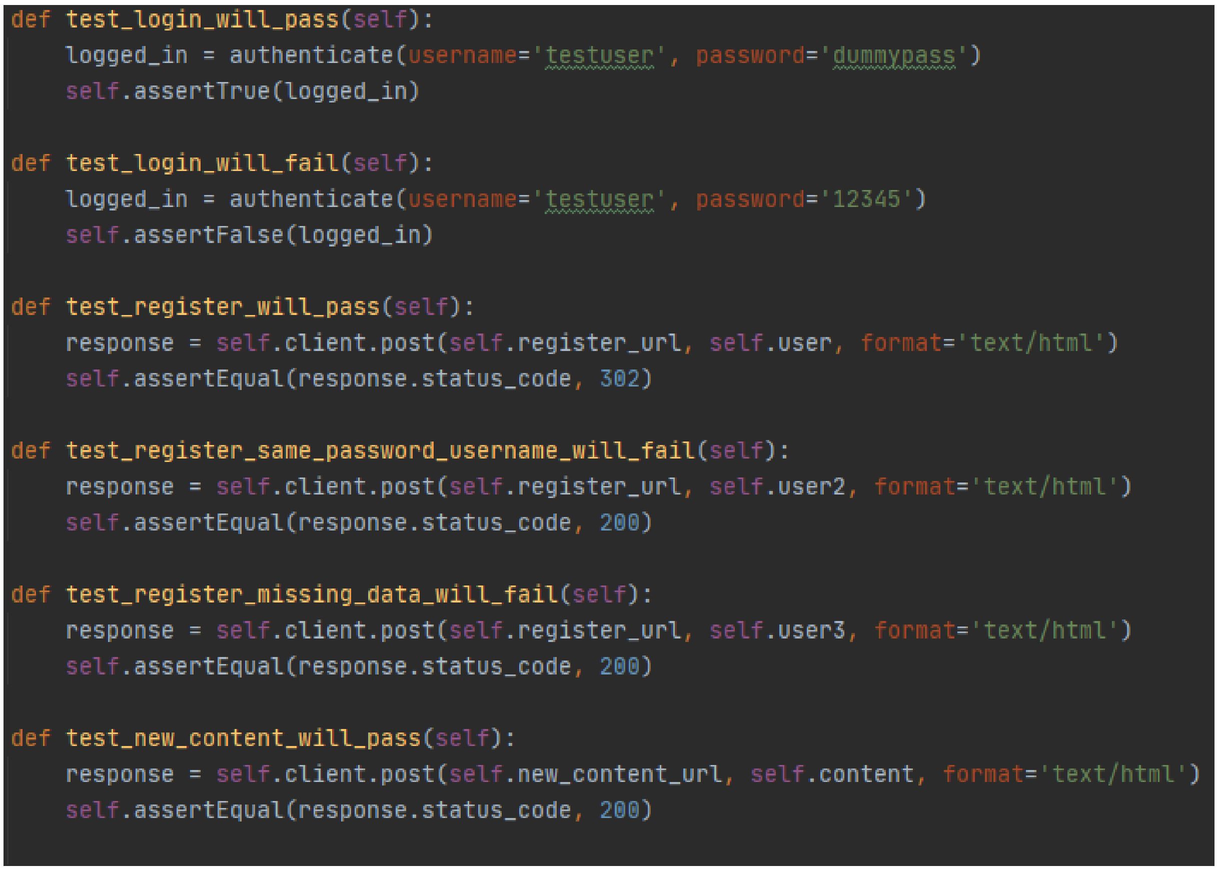
Search... | Search User

Special Number : 2
Name : Simay
Surname : Gökalp Altın
Email : simaygokalp@gmail.com
Remove Friend

Test Results

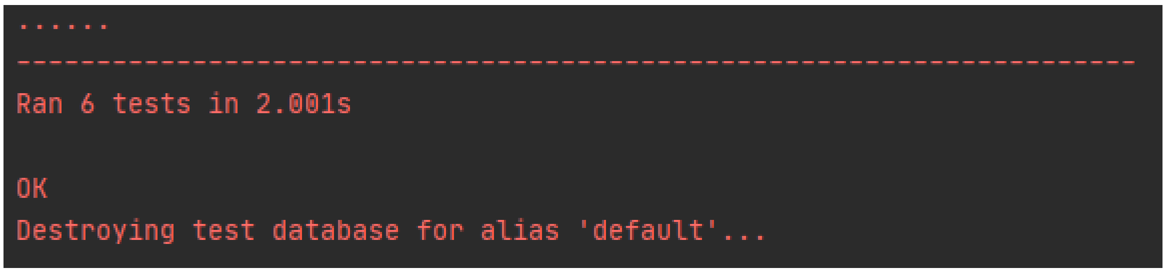
Unit Test

These are the unit tests which are created by me according to my functions.



```python
def test_login_will_pass(self):
    logged_in = authenticate(username='testuser', password='dummypass')
    self.assertTrue(logged_in)

def test_login_will_fail(self):
    logged_in = authenticate(username='testuser', password='12345')
    self.assertFalse(logged_in)

def test_register_will_pass(self):
    response = self.client.post(self.register_url, self.user, format='text/html')
    self.assertEqual(response.status_code, 302)

def test_register_same_password_username_will_fail(self):
    response = self.client.post(self.register_url, self.user2, format='text/html')
    self.assertEqual(response.status_code, 200)

def test_register_missing_data_will_fail(self):
    response = self.client.post(self.register_url, self.user3, format='text/html')
    self.assertEqual(response.status_code, 200)

def test_new_content_will_pass(self):
    response = self.client.post(self.new_content_url, self.content, format='text/html')
    self.assertEqual(response.status_code, 200)
```

All tests are completed successfully as you can see below.



```
......
----------------------------------------------------------------------
Ran 6 tests in 2.001s

OK
Destroying test database for alias 'default'...
```

User Test

- Register: Registration page is informative. It requires minimum information just to register.

Login: Username and password is enough to login. When you enter wrong password or username, it just deletes your input and does not give informative response.

Home Page

- Search: When I entered a text here it bring anything that includes this text at title, message or label. It brings from all contents that means I cannot select where to search.

- Change Your Home Page: All savings shows all contents, My Space shows my friends sharings and My Savings shows contents which are created by me.

- Extend: It brings me to a page where I can like or make comment about specific content. Also, I can see old comments and number of likes.

- Like: After I like, I stay on the page and see number of likes increases.

- Make Comment: I can make a comment about a content but after I make comment, other people's comments vanish. I need to go home page and come into this page to see all comments again.

My Profile:

I can see my information like name, surname, email, about me and username at this page.

- Update Your Summary: I can change about me part from here easily.

- Edit Profile: I can change name, surname, email, and username from here. But these changes did not change my previous contents.

- Change Password: I can change my password after I enter my old password.

New Content:

After I fill all mandatory fields, I can create a new content from this page.

Connections:

When I first enter this page, I see my friends and I can remove them from this page.

- Search: When I need to add someone as a friend, I use this page to find that person. Searching "all" to find all people a bit confusing.

- Add Friend: After searching, I can use this button to add new friends. However, this button redirects me home page. It would be nice to stay on connections page.

- Remove Friend: When I click remove friend, that person does not go away first time. I need to click second time or come from home page again to refresh page.

- Logout: I logout from page immediately. It would be nice to be asked to make sure.