

SWE 573 Report

Honor Code	1
Project Repository	2
Test User	3
3rd Party Softwares	3
Languages	3
Project details	3
Overview	3
Software Requirements Specification	4
Scenarios	5
Scenario 1	5
Scenario 2	5
Scenario 3	6
Design (Software & Mockups)	6
Sign In Page	6
Sign Up Page	6
Home Page	6
Profile Page	6
Friends Page	6
Friend Requests Page	6
UML Diagram	6
Status of your project	7
Status of Deployment	11
System manual	11
User manual	12
Authentication	12
Demo	14
References	14

Honor Code

Related to the submission of all the project deliverables for the Swe573 2022 Fall semester project reported in this report, I, Handenur Coşkun, 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.

Handenur COŞKUN

Project Repository

Link: <http://notebookplusapp.us-east-1.elasticbeanstalk.com/>

Git Repository: <https://github.com/Handenurcoskun/softwareDevelopmentPractice>

Git Wiki: <https://github.com/Handenurcoskun/softwareDevelopmentPractice/wiki>

Test User

The user ids and other information I need when testing your deployed system.

Notebook Plus Users:

admin role:

username:admin
password:admin

user role:

username:user
password:user

3rd Party Softwares

A declaration that all work in the project you are submitting is performed by yourself, and the declaration of any 3rd party software you used to abide by the licenses.

Languages

- Java

- React

Frameworks and other technologies

- Docker
- Spring
- AWS
- PostgreSQL
- Git
- Github

Project details

Overview

Hi! My name is Handenur and I am a SWE-573 student. It is a project report that I developed under the "Software Development Practices" course, on a kind of content saving web application called "Notebook Plus".

Notebook plus social media platform is aimed to be used to store the links of the posts, messages that we want to remember later. The reason I call it Notebook Plus is because it can be used as a smart note taking area.

Software Requirements Specification

Elicitation Questions

- What is the problem?
- How will the user use this project?
- Where would the user access this project?
- Is there any other way to accomplish this problem?
- How long does a user post need to be stored?
- Can a user produce and post their own content without quoting from another application?
- What if a user shared a post she liked on Twitter in the application and that post was deleted, how does the program behave?
- What if a user shared a post she liked on Instagram in the application and that post owner has private account, how does the program behave?
- Is there any other way to accomplish this?
- When will this project be used?
- How do people give reaction to posts?
- How do people react to posts?
- What is the end result of doing this project?

- Does this project meet the needs and solve the problem we're trying to solve?
- How might we think about this project a bit differently?

Terminologies of Notebook+ Application

- Memory: The user can copy a link from Instagram, Facebook, LinkedIn, Twitter, and Pinterest and share the link with the user's own comments. Users and users' friends can comment under the memory. The act of writing a memory is called memorizing. Memories can be up to 200 characters long of comment, including spaces, and can include URLs from other applications.

Requirements:

- The user should be able to log in with its username or email and password.
- The user should be able to register to the system with its name, surname, The username and password.
- The user should be able to reset its password.
- The user should be able to change its user information.
- The user should be able to change its profile picture.
- The user should be able to add a profile picture.
- The user should be able to change its registered mail address.
- The system shall let the user create a memory containing a title, contents, and link from another application.
- The system shall let the user edit a memory containing a title, contents, and link from another application.
- The system shall let the user delete a memory containing a title, contents, and link from another application.
- The system should have an advanced search function that can search for specific string values, and sort them alphabetically.
- The system shall allow users to add friends.
- The system shall allow users to see friendship requests.
- The system shall allow users to accept or decline friendship requests.
- The system shall allow users to see friends' memories on the home page.
- The system shall allow users to share a LinkedIn post link, an Instagram post link, a Facebook post link, a zoom chat message, a google meet chat message, Microsoft teams chat message, an Instagram story link, a Twitter tweets link, a Facebook page link, a youtube video link, a Twitter user profile link, a Trendyol product link, Sahibinden page link, a Trendyol collection link, N11 product link, a Hepsiburada product link, a Ciceksepeti product link, a Letgo product link, on their profile with their own comments as a memory.
- The system shall allow users to see all the memories users shared on their profile pages sorted based on time.
- The system should have a web application.
- The system should keep passwords encrypted in the database.
- The system should be written with Java and Spring Framework.
- The system should use PostgreSQL.

- The system should be dockerize.
- The user should be able to change application language.

Scenarios

Scenario 1

Persona name: Furkan Kara

Job: Software developer

Age: 23

Back Story: Furkan is a software developer. Furkan is also very interested in music. He enjoys recording what he discovers, especially software and music while surfing his social media accounts. However, he has difficulty in finding the relevant content, as he sometimes takes screenshots of what he has recorded, and sometimes adds it to the important ones in the relevant social media account.

Scenario 2

Persona name: Mete Uzun

Job: Development manager

Age: 32

Hobbies: Likes to discover new places!

Back Story: Jason is a 32-year-old business development manager at a tech startup. He is driven and ambitious, and always looking for ways to improve his skills and advance his career. Despite his busy schedule, Jason values a good work-life balance and makes time for his hobbies and interests outside of work. He is a passionate traveler and an avid runner, and enjoys trying out new restaurants and craft breweries in his free time. Jason is also a social person and loves staying connected with his friends and family through various social media platforms. He uses your app to plan and share his activities and interests with his network, and to keep track of the things he wants to do and discover in the future.

Scenario 3

Persona name: Figen Saka

Job: housewife

Age: 35

Hobbies: cooking

Back Story: Figen is a 35-year-old housewife with two young children. She loves staying connected with her friends and family through social media, and spends a lot of time browsing for new recipes to try. Figen is a busy mom who juggles taking care of her kids with her responsibilities at home, and sometimes finds it hard to keep track of everything. She is always looking for ways to streamline her life and make things easier. One challenge Figen faces is taking notes during the meetings with her kids' classmates' parents on Zoom or Meet. She often loses track of important points and wishes she had a tool to help her stay organized. In her free time, Figen enjoys cooking and trying out new recipes, and loves sharing her creations with her friends.

and family. She is also an avid reader and enjoys spending quiet moments with a good book.

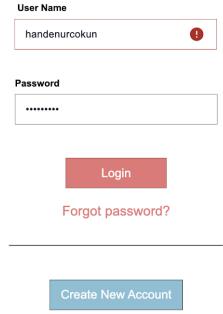
Design (Software & Mockups)

Mockups for Web Application!

Sign In Page

NOTEBOOK+

Notebook+ Login



The login form consists of the following fields:

- User Name: (with a red info icon)
- Password:
- Login button: A red button labeled "Login".
- Forgot password? link: A small red link below the login button.
- Create New Account button: A blue button at the bottom left.

Sign Up Page

NOTEBOOK+

Notebook+ Sign Up



The sign up form consists of the following fields:

- Name Surname:
- e-mail:
- Number:
- User Name:
- Password:
- Create New Account button: A blue button at the bottom left.

Home Page

NOTEBOOK+

- Profile ▾
- Home ▾
- Settings ▾
- Friend Requests ▾
- Friends ▾

User5244 from Facebook
Really funny video, you should watch!!

User90212 from Instagram
Need to go this place and take a picture like this post!

User94832 from Pinterest
Love this room design, specially that lamp is so authentic.

User94832
Furkan's movie proposal is the mummy, which is a horror movie. Must watch at first opportunity.

Follow this link >

Follow this link >

Follow this link >

Follow this link >

< 1 2 3 4 5 6 >

All posts has comment section

NOTEBOOK+

- Profile ▾
- Home ▾
- Settings ▾
- Friend Requests ▾
- Friends ▾

User5244 from Facebook
Really funny video, you should watch!!

User90212 from Instagram
Need to go this place and take a picture like this post!

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Love this room design, specially that lamp is so authentic.

User94832
Furkan's movie proposal is the mummy, which is a horror movie. Must watch at first opportunity.

Follow this link >

Follow this link >

Follow this link >

Follow this link >

User5244
It sound greate!!!!!!!

User90212 from Instagram
Thank you for suggestion :)

User94832 from Pinterest
Could you screenshot to me, because this post is private so i can not see it.

Write comment

< 1 2 3 4 5 6 >

Profile Page

NOTEBOOK+

Profile Home Settings Friend Requests Friends

 handenurcoskun from Facebook
Really funny video, you should watch!!
[Follow this link](#) >

 handenurcoskun from Instagram
Need to go this place and take a picture like this post!
[Follow this link](#) >

 handenurcoskun from Pinterest
Love this room design, specially that lamp is so authentic.
[Follow this link](#) >

 handenurcoskun
Furkan's movie proposal is the mummy, which is a horror movie. Must watch at first opportunity.

< 1 2 3 4 5 6 >

 handenurcoskun
Handenur Coşkun
I graduated from the California Institute of Technology in 2016 with a bachelor's degree in software development.
[Edit](#) >

[Sign out](#)

Friends Page

NOTEBOOK+

Profile Home Settings Friend Requests Friends

 user6253532
Jaime Jones is an award-winning freelance writer who specializes in finance topics. With over ten years of experience, she has been published in the Wall Street Journal, the New York Times and numerous trade journals, including the Harvard Business Review.

 user764229
My name is Alex Drysdale and I am a Junior Web Developer for Oswald Technologies. I am an accomplished coder and programmer, and I enjoy using my skills to contribute to the exciting technological advances that happen every day at Oswald Tech.

 user5283833
Mary Jones is an Administrative Assistant with eight years of experience working alongside the executive team of a Fortune 500 company. Mary specializes in administrative technology and is responsible for educating other employees on using progressive systems and applications.

 user622781
Max enjoys bringing sensible budgeting tips to people of all income levels. She currently lives in Portland, Oregon, and is available for freelance assignments and speaking engagements.

< 1 2 3 4 5 6 >

Friend Requests Page

NOTEBOOK+

Profile	user6253532	X	✓
Home	Jaime Jones is an award-winning freelance writer who specializes in finance topics. With over ten years of experience, she has been published in the Wall Street Journal, the New York Times and numerous trade journals, including the Harvard Business Review.	X	✓
Settings			
Friend Requests			
Friends			

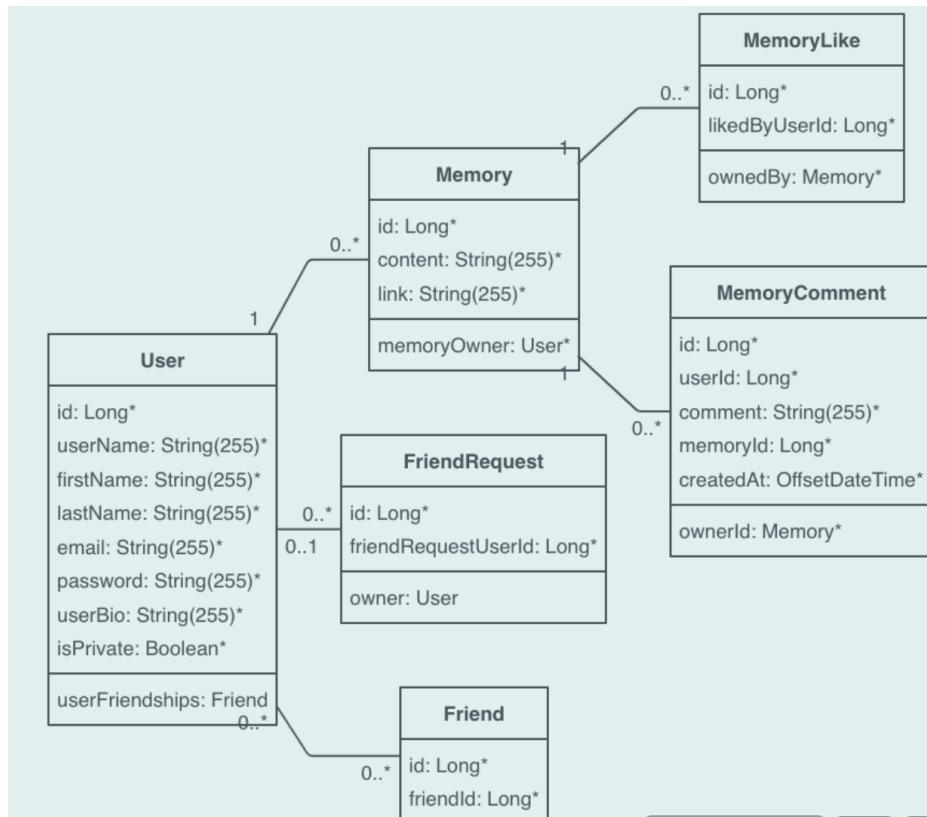
Profile	user764229	X	✓
Home	My name is Alex Drysdale and I am a Junior Web Developer for Oswald Technologies. I am an accomplished coder and programmer, and I enjoy using my skills to contribute to the exciting technological advances that happen every day at Oswald Tech.	X	✓
Settings			
Friend Requests			
Friends			

Profile	user5283833	X	✓
Home	Mary Jones is an Administrative Assistant with eight years of experience working alongside the executive team of a Fortune 500 company. Mary specializes in administrative technology and is responsible for educating other employees on using progressive systems and applications.	X	✓
Settings			
Friend Requests			
Friends			

Profile	user622781	X	✓
Home	Max enjoys bringing sensible budgeting tips to people of all income levels. She currently lives in Portland, Oregon, and is available for freelance assignments and speaking engagements.	X	✓
Settings			
Friend Requests			
Friends			

< 1 2 3 4 5 6 >

UML Diagram



Status of your project

The status of each requirement (completed is ticked, not completed where completed means it is documented, tested and deployed not ticked)

- The user should be able login with its username or email and password.
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- The system shall allow users to see all the memories users shared on their profile pages sorted based on time.
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- The system should use PostgreSQL.
- The system should be dockerized.
- The user should be able to change application the language.

Status of Deployment

- Deployed to AWS: <http://notebookplusapp.us-east-1.elasticbeanstalk.com/>
- Dockerized

System manual

What are the requirements to run this system and installation instructions (docker).

1. To boot your project in Docker, first make sure Docker Desktop is installed on the computer.
2. After that clone the repo in your local with
<https://github.com/Handenurcoskun/softwareDevelopmentPractice.git>
3. Open the project in a code editor and navigate to the relevant directory where the code is located.
 - cd nbplus573
4. Final step, run with docker
 - docker build -t nbp:v1 .
5. Open the Docker Desktop application and run the container which included our image

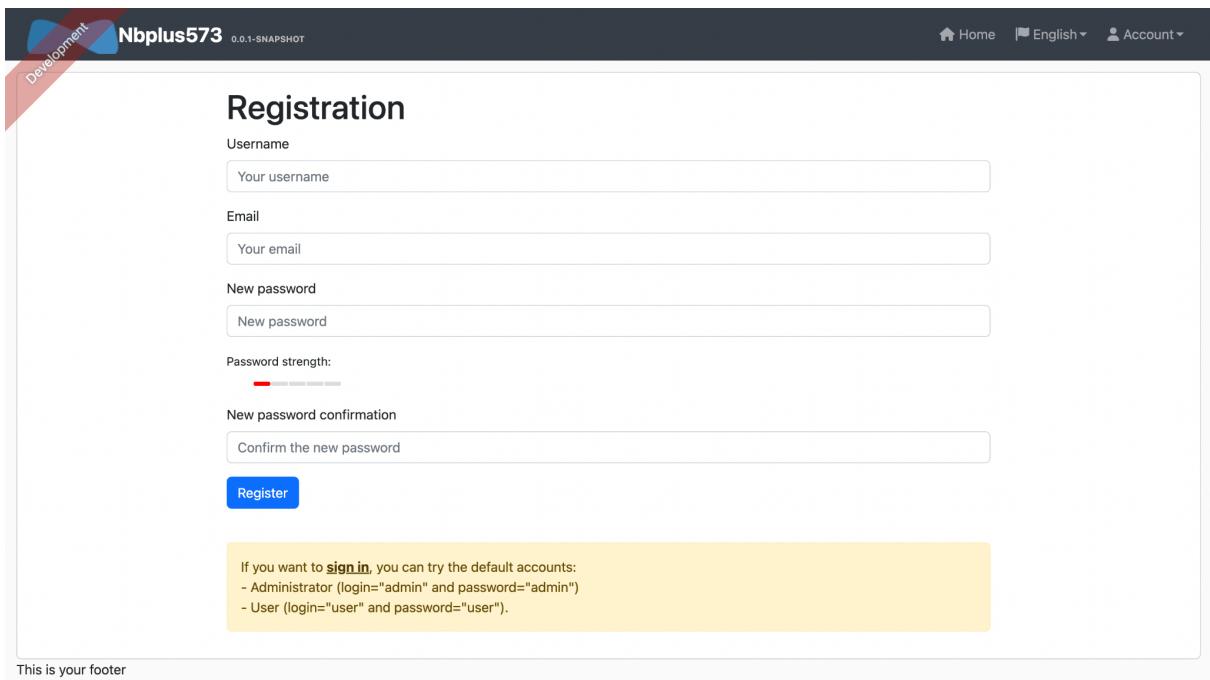
User manual

Authentication

1. Registration

(<http://notebookplusapp.us-east-1.elasticbeanstalk.com/account/register>)

In order to login, first you need to register with the link down below and the page name is “Register”.



The screenshot shows a registration form for the Nbplus573 application. The top navigation bar includes links for 'Home', 'English', and 'Account'. The main form has fields for 'Username', 'Email', 'New password', and 'Confirm new password'. A password strength meter shows one segment filled. A note at the bottom suggests using default admin credentials. The footer contains the text 'This is your footer'.

After registering, the system will hold your user status deactivated. For making the user status activated, sign in with admin user(**Username:admin pw:admin**) and navigate to

<http://notebookplusapp.us-east-1.elasticbeanstalk.com/admin/user-management?page=1&sort=id.asc>

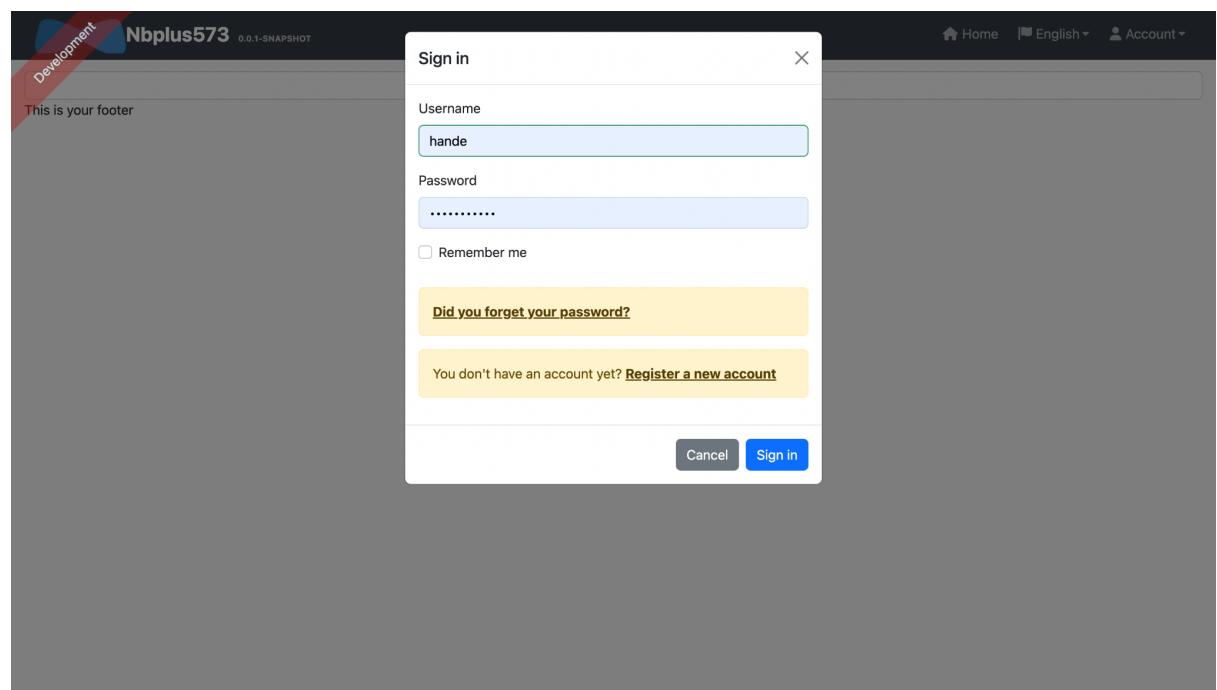
Find your new user and click the deactivated button to switch your account status activated.

ID	Login	Email	Language	Profiles	Created date	Modified by	Modified date
1	admin	admin@localhost	en	ROLE_USER ROLE_ADMIN		system	
2	user	user@localhost	en	ROLE_USER		system	
1001	hande	handenurcokun@gmail.com	en	ROLE_USER	02/01/23 22:52	anonymousUser	02/01/23 22:52

This is your footer

2. Login (<http://notebookplusapp.us-east-1.elasticbeanstalk.com/login>)

- You may now log in anytime with your username and password to the system.



- Now, you are in 😊

3. Logout (<http://notebookplusapp.us-east-1.elasticbeanstalk.com/logout>)

If you want to log out, you may use the "Sign out" button inside the Account.

This is your homepage

You are logged in as user "hande".

If you have any question about my project

- [Github homepage](#)
- [Mockup screens](#)
- [Weekly Reports](#)
- [handenurcokun@gmail.com](#)
- [follow @handenurcokun on Github](#)

If you like my Project, don't forget to follow me on Github [GitHub!](#)

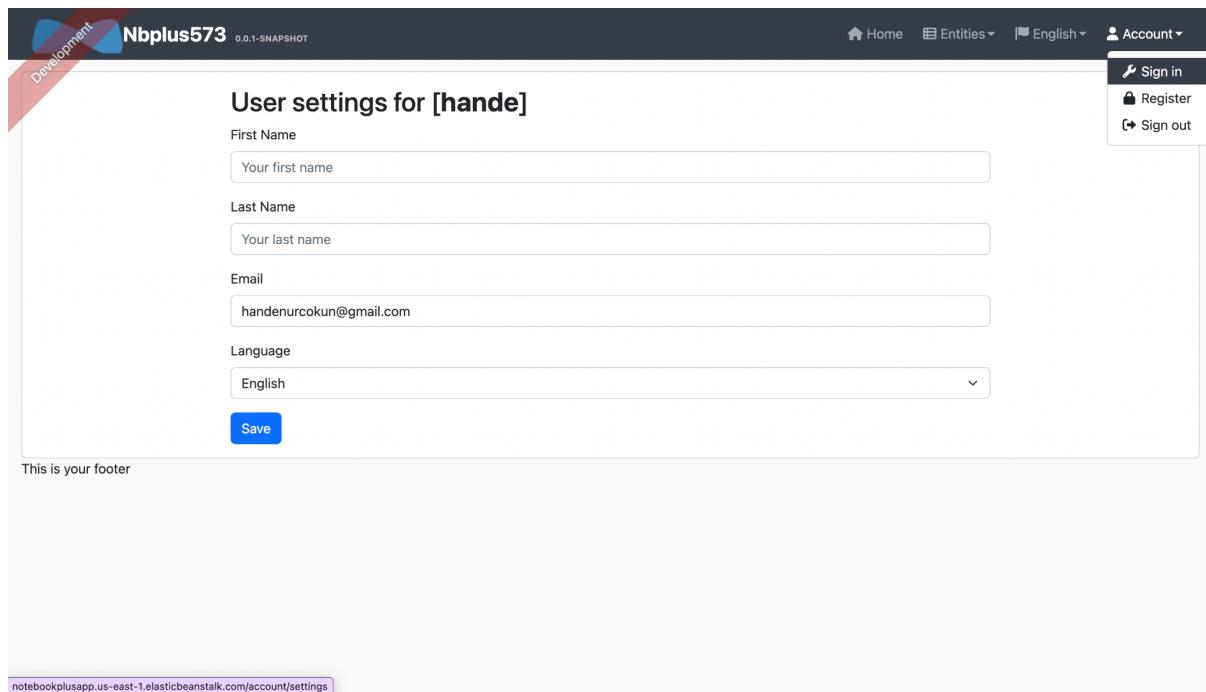
This is your footer

notebookplusapp.us-east-1.elasticbeanstalk.com/logout

4. Change User information

(<http://notebookplusapp.us-east-1.elasticbeanstalk.com/account/settings>)

- You can click on the <Sign in> link when you want to change the user information. If you want to make changes to your profile information, you can update your information on this page. You can change your e-mail address, language, name and surname. After completing the changes, you can click the <Save> button to complete the update.



Demo

- Demo link of the project: <https://youtu.be/pLodrXH2Was>

References

- Stackoverflow:
 - There are probably hundreds of pages from here.
- Youtube:
 - https://www.youtube.com/watch?v=6N3elMAzyfU&ab_channel=ArnauGarcia
 - https://www.youtube.com/watch?v=C0Kny4N8erw&ab_channel=ClassicOss
 -
- jhipster:
 - <https://www.jhipster.tech/docker-compose/>
 - <https://www.jhipster.tech/aws/>
 - <https://www.jhipster.tech/running-tests/>
- Udemy:
 - <https://www.udemy.com/course/spring-ve-react-ile-web-uygulamas-gelistirmek/learn/lecture>
- Chat GPT
- Postgresql
- Spring