

Living Stories

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SWE573 - Spring 2023 - Term Project

Location and date dependent story sharing web app

Github repository: https://github.com/sananeminli/SWE_573

Git Tag Version: final

Git Release Link: https://github.com/sananeminli/SWE_573/releases/tag/final

Demo Video Link:

https://drive.google.com/file/d/1bHbJidD0ltmoa119RhvLfM1WRa8Eagyu/view?usp=drive_link

Deployment (Project) URI: <http://34.107.108.104:3000/>

HONOR CODE

Related to the submission of all the project deliverables for the SWE573 2023 Spring semester project reported in this report, I Sanan EMINLI declare that:

- I am a student in the Software Engineering MS program at Bogazici University and am registered for SWE573 course during the 2023 Spring 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.

Sanan EMINLI



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1. Overview

This project is about a story-sharing web application where users can create memories by adding locations and precise dates to them. With these additions, users can create great stories because they can include multiple location data and create stories with photos or even GIFs.

The app consists of several pages. The first page is called the landing page, and users should create an account or, if they already have an existing account, log in to use the app. After logging in, users are directed to the home page where they can see all the stories that other users have shared. If users start following other users, they can also see stories from the users they follow. After completing registration, users can edit their profile, add a photo, and write a biography.

If a user wants to read a story, they can click on the story they are interested in, and the app will direct them to the story details page. On this page, users can see the locations of the story on a map located in the top right corner. Additionally, users can view labels, the author's name, photo, and date, as well as details about the season. Users can also read comments from other users on this particular story and, if desired, leave their own comments. Users can like stories and even like comments. If a user wants to read other stories by the same author, they can click on the author's name and view the author's profile. On this profile page, users can follow the author and see their stories in the "Followings" section on the home page.

In the search page, users can look for other users by name or search for stories with specific features. These features include date, interval date (with options for day, month, or year), location, city, country, text, label, header, and author's name.

2. Initial Mock Desing Ups

Landing page

Living Memories

Welcome back!

Email Address

Password

[Forgot password?](#)

[Log In](#)

Don't have an account? [Register](#)

Profile page



Living Memories





Sanan Eminli

 10  7

Edit Profile

About Me

Hello my Name is Sanan. I hope you can have good times while reading my memories.

My Stories

All Drafts Published



Diminishing Statues

 10  5  

Childhood Funny

 Baku/Azerbaijan
 19.03.2023



My first love

 22  12  

Love Childhood Funny

 Baku/Azerbaijan
 19.03.2023



My first fight

Draft Fight Childhood Angry

 Baku/Azerbaijan
 19.03.2023

Filter Stories

Start Date
 Select Date

End Date
 Select Date

Location
Write location

Filter

Registration page

Register for sharing memories!



Add photo

Full Name

Example Example

Email

example@example.com

Password

Re-Enter Password

Add Bio

Clear

Hello |

Cancel

Create



Lera Stepanova

👤 10 🗨️ 7

Follow

Hello my name is Lera. I hope you can have good times while reading my memories.❤️

Filter Stories

Start Date

📅 Select Date ▾

End Date

📅 Select Date ▾

Location

Write location

🔍 Filter



First day in the school

Childhood Funny

👍 10 🗨️ 5

👤 Baku/Azerbaijan

📅 19.03.2023



My first love



Love Childhood Funny

👍 22 🗨️ 12



👤 Baku/Azerbaijan

📅 19.03.2023

Search page



Living Memories



Search

Header


Start Date

End Date

Location

Tags

Username

 Search

Home page



Living Memories



Home Page

AllFollowingsLiked

Story



First day in the school

ChildhoodFunny

 Baku/Azerbaijan

 19.03.2023


 10  5

Story




My first love

LoveChildhoodFunny

 Baku/Azerbaijan

 19.03.2023

 22  12

Story




Diminishing Statues

ChildhoodFunny

 Baku/Azerbaijan

 19.03.2023


 10  5


Story



My first love

LoveChildhoodFunny

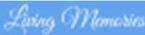
 Baku/Azerbaijan




 19.03.2023


 22  12

 Show more


Story Page










Rauf Eminov
10.02.2023


 Baku/Azerbaijan

 28.11.1992

Removal of Lenin's statue from the center of Baku


My father was born and lived his early adulthood in USSR. He remembers the collapse of the Soviet Union and the subsequent removal of the Lenin statues from important places. But one of the statues has more importance than the others. That was Lenin's statue in front of the famous building called the Government Building. The building was located center of Baku. Therefore everyone in Baku saw this statue at least once in a lifetime. It was a significant moment in the History of Azerbaijan. Because that statue actually was not just a statue but a symbol of the dominant ideology in the country. For the general public, its removal was a welcome change and a tangible symbol of the changes taking place in society. While some felt a deep connection to the statue and saw its removal as a loss, it was a necessary step toward progress for others. Looking back, my father remembers this time as a moment of change, growth, and transition for Azerbaijan.






History

Childhood

 12

 7



Comment



Lera Stepanova
18.02.2023

What a lovely story!



Ivan Stepanov
12.02.2023

I remember those days!





Aslanbek Lubob
11.02.2023

This events also took place in my country!

 Show more

Story creating page

Living Memories




Add a story

Header

Location

Select Date

 Select Date



▼

Story

Add story here!

Happy X Mom X Childhood

+




Cancel

Save As Draft

Submit

Profile edit page

Edit Profile



Change Photo

Delete Photo

Delete Profile

Full Name

Email

Change Password

Re-Enter Password

Change Bio

Clear

Cancel

Save

Reset password page

Reset password

Enter your email to reset your password

Email Address



Continue

[← Go back to the previous step](#)

3. Current design of the app

Landing Page



Registration Page

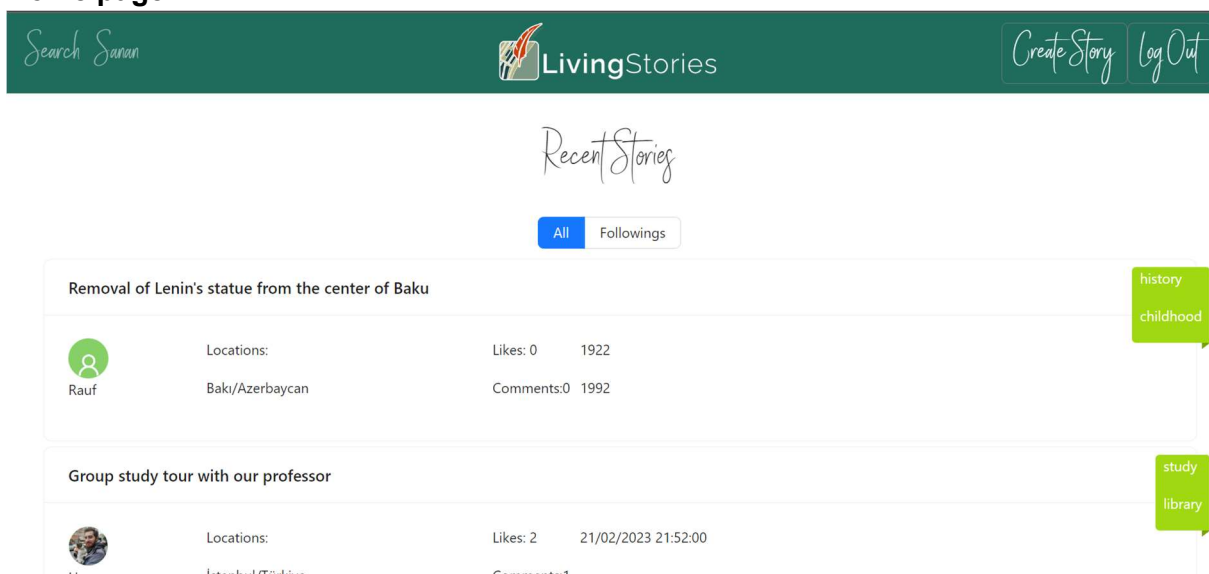
The image shows the registration page of the LivingStories app. It has the same dark background with warm bokeh lights as the landing page. The logo is in the top left corner. The text "LivingStories" is in a large, white, sans-serif font. Below the title, the text "Welcome to Living Stories!" is displayed in a white, sans-serif font. Below this, there are four registration fields, each preceded by a red asterisk: "Email:" followed by a white input field containing the placeholder text "Provide your email!"; "Name:" followed by a white input field containing the placeholder text "Provide your name!"; "Password:" followed by a white input field containing the placeholder text "input password" and a small eye icon to its right; and "Repeat Password:" followed by a white input field containing the placeholder text "repeat password" and a small eye icon to its right. Below these fields is a blue button with the text "Register". At the bottom of the page, there is a link in blue text that reads: "If you have an account, go to the login!".

Login Page



The login page features a dark background with falling autumn leaves. On the left is a logo consisting of a stylized red and white feather or quill pen resting on a green and white map of a city. To the right of the logo, the text "LivingStories" is displayed in a large, white, serif font. Below the title, there are two input fields: the first is labeled "* Email:" and contains the placeholder text "write email"; the second is labeled "* Password:" and contains the placeholder text "write password" with an eye icon to its right. A blue "Login" button is positioned below the password field. At the bottom, a link in blue text reads "If you don't have an account, go to the register!"

Home page



The home page has a dark green header bar. On the left is a search bar with the placeholder text "Search Sanan". In the center is the "LivingStories" logo. On the right are two buttons: "Create Story" and "Log Out". Below the header, the text "Recent Stories" is written in a cursive font. There are two tabs: "All" (selected) and "Followings". The main content area displays two story cards. The first card is titled "Removal of Lenin's statue from the center of Baku" and features a profile picture of a person named "Rauf". It lists "Locations: Baki/Azerbaycan", "Likes: 0", "1922", and "Comments:0". To the right of this card is a green button labeled "history" with a sub-label "childhood". The second card is titled "Group study tour with our professor" and features a profile picture of a person named "Uzun". It lists "Locations: İstanbul/Türkiye", "Likes: 2", "21/02/2023 21:52:00", and "Comments:1". To the right of this card is a green button labeled "study" with a sub-label "library".

Story Page

Removal of Lenin's statue from the center of Baku

history

childhood

Start Date: 1922

End Date: 1992



By: Rauf

My father was born and lived his early adulthood in USSR. He remembers the collapse of the Soviet Union and the subsequent removal of the Lenin statues from important places. But one of the statues has more importance than the others. That was Lenin's statue in front of the famous building called the Government Building. The building was located center of Baku.



Like!

Likes: 2

Write a comment!

Add Comment



Sanan

Likes: 1

Group study is the secret place)))

Like!

Search Page

User

Story

Header:

Author's Name:

City:

Country:

Label:

Text:

Date

Decade

Exact Date Search

Interval Search

Select a season.

DateDecade

Exact Date SearchInterval Search

Select a season.

Exact DateMonthYearSelect start date!


Select a season.

Exact DateMonthYearSelect end date!

Locations:
Konum girin


My Profile Page

Search Sanan

LivingStories

Create StoryLog Out

Profile Page



Hello there! My name is Sanan. I hope you will enjoy my stories!

Sanan
Number of followers: 1

Edit Profile

Sanan's Stories
Sanan have 0 story!

Other users' profile page

Profile Page



Hello, my name is Hasan Deniz, but people call me Turuncu)

Hasan
Number of followers: 1

Unfollow!

Hasan's Stories
Hasan have 1 story!

Group study tour with our professor

stud

4. Known issues

When users use the keyboard arrow buttons and press Enter for location selection on the story creation page, it will replace the last location. Therefore, users should select the desired location using the mouse among the returned autocomplete results.

In search, if the user selects the first month of the year or the first day of the month as a start date, it will get like searching in all stories in that month or all years. Therefore when user search for stories on the first day of the month or the first month of the year will get all stories in that month or that year.

When an action is performed on the story, the order of the stories on the home page changes.

After the creation of the story, its often does not appear on the home page. Therefore the user should refresh the home page.

5. Status of Deployment

5. Status of Deployment

Website is dockerized and deployed on GCP VM. Tester can clone the main branch of the repository on his computer and with docker-compose, he can run it locally.

Docker Build - In

Website is dockerized by using the docker-compose version 3.7. Three containers are created for frontend, backend, database separately.

Backend Container:

- Java
- Maven clean install
- Copy .env files
- Cmd Jar

Frontend Container:

- Node:18.16
- Copy .env files
- Use npm start command to build up frontend
- Install necessary files

Database Container:

- Postgresql 15

Backend Dockerfile url :

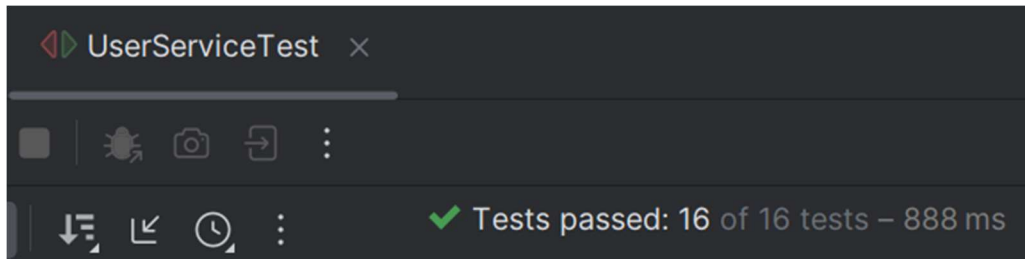
https://github.com/sananeminli/SWE_573/blob/main/living_stories/Dockerfile

Frontend Dockerfile url:

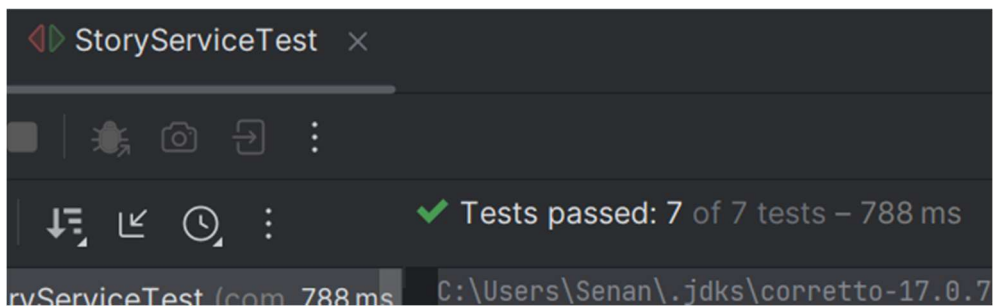
https://github.com/sananeminli/SWE_573/blob/main/front_end/Dockerfile

6. Unit Tests

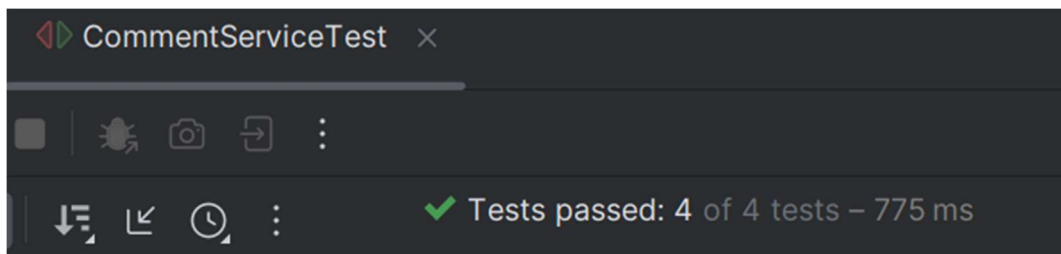
User service tests



Story Service tests



Comment Service tests



7. System Manual

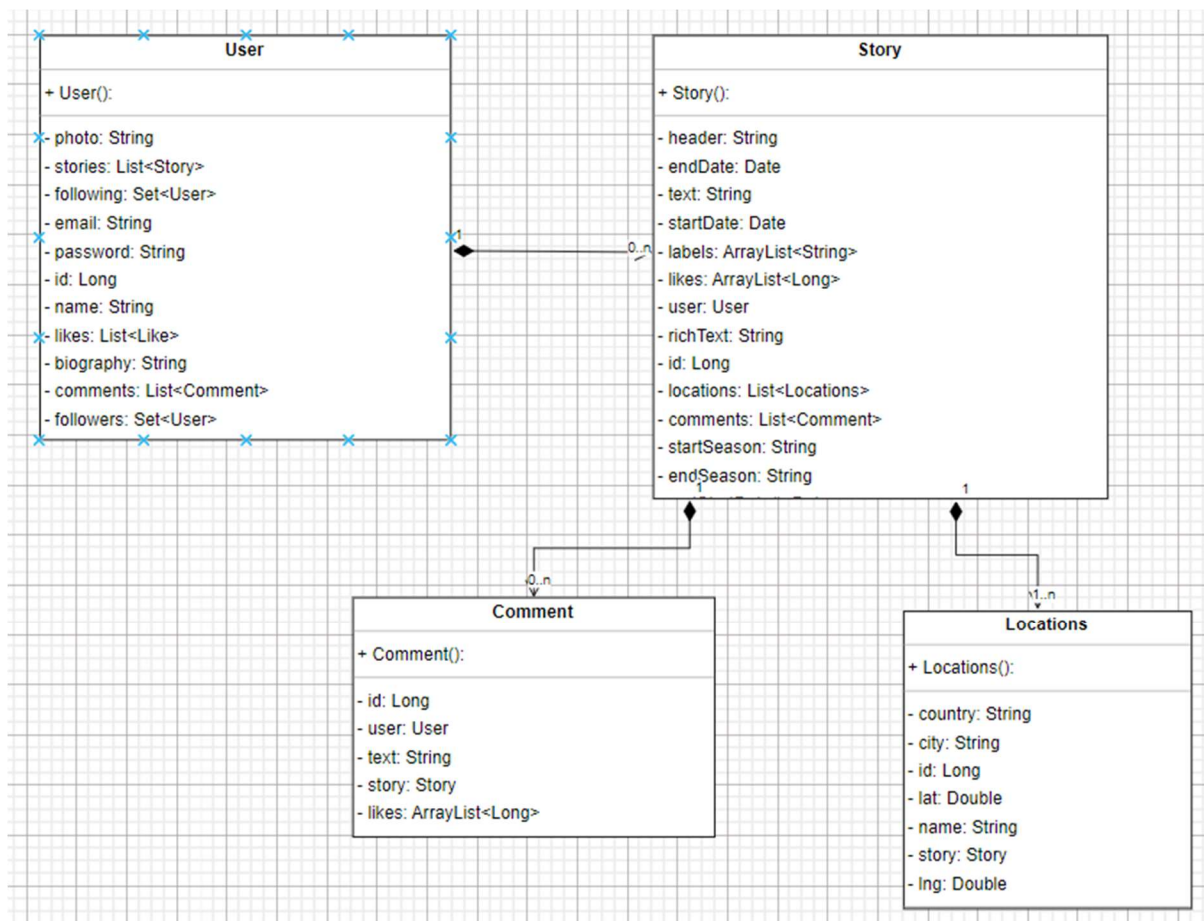
The user should install Docker first to run the project on their local machine. After starting Docker, the user should clone the project repository. After that user should put .env file inside SWE_573/front_end folder. User should write following command inside SWE_573 folder.

Starting command:

`docker compose up -d --build`

After entering this command in the console, it will automatically install the necessary dependencies. Once the process is complete, the user will be able to visit <http://localhost:3000> to test the website.

8. Uml diagrams



9.Requirements

- The users shall be able to see all user memories shared by other users in the home page. **DONE**
- The users shall be able to see all user memories shared by followed users in the home page. **DONE**
- The home page shall display four user stories.
- The password should be at least eight characters.
- The users shall be able to change the user password.
- The app should provide recover password functionality in the login page.
- The app should provide search functionality to help users find specific memories. **DONE**
- The app should allow users to edit or modify memories after they have been shared. **DONE**
- The app should support other file formats for shared memories, such as photos and text. **DONE**
- The app should have a feature to allow users to give feedback on shared memories, such as liking or commenting. **DONE**
- The app should have a feature to allow users to follow other users, such as friends or family members, to share memories.
- The app should allow users to track when a memory post was created or shared.
- The app should provide options for saving memories as a draft.
- The app should have a function for deleting the story.
- The app should have a function for deleting the user account.
- The app should have a function for editing the account's username, photo, and bio. **DONE**
- The app should allow users to add location data to their memories, such as where the memory was created by the user. **DONE**
- The app should allow users to add date data to their memories, such as when that memory happened. **DONE**
- The memory page should open when the user clicks on other people's memory. **DONE**
- The app should have the landing, main, profile, search, and new post pages. **DONE**
- The app should allow users to search for memories by various criteria, such as keywords, geolocation, and tags. **DONE**
- The users shall be able to add tags to the memories. **DONE**
- The users shall be able to search the stories. **DONE**
- The users shall be able to search by title. **DONE**
- The users shall be able to search by username. **DONE**
- The users shall be able to search by tag. **DONE**
- The users shall be able to search by location. **DONE**
- The users shall be able to search by the start date. **DONE**
- The users shall be able to search by the end date. **DONE**
- The users shall be able to search by the end date. **DONE**

10. User Manual

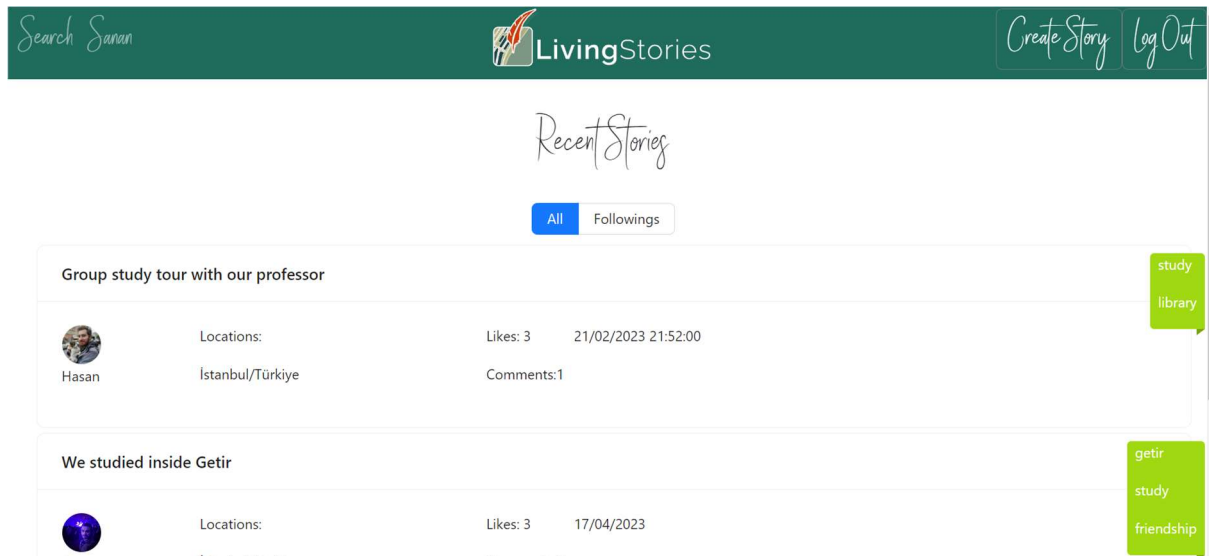
The landing page would be the first page that the user will see when they come to the URL. Then, the user can choose to register or log in to the site.



In the registration page, the user should provide all necessary information, and the values of email and name should be unique.

The image shows the registration form of the 'Living Stories' app. It features a dark background with a bokeh effect of warm, golden-yellow lights. In the top left corner is a logo consisting of a stylized red and white feather or quill pen. To the right of the logo, the text 'LivingStories' is displayed in a large, white, sans-serif font. Below the logo and title, there is a welcome message: 'Welcome to Living Stories!'. Underneath this message, there are four input fields, each preceded by an asterisk: '* Email:' with a placeholder 'Provide your email!', '* Name:' with a placeholder 'Provide your name!', '* Password:' with a placeholder 'input password' and a small icon of a key, and '* Repeat Password:' with a placeholder 'repeat password' and a small icon of a key. Below the input fields is a blue button with the text 'Register'. At the bottom of the form, there is a link: 'If you have an account, go to the login!'.

If the user successfully registers to the app, the app will direct the user to the login page. If this is not the case, the user will see an error alert. On this page, the user should provide their email and password values for logging into the app. If the credentials are valid, the user will be directed to the home page.



On the home page, the user has several options. They can create a new story by pressing the "Create Story" button. Additionally, they can read existing written stories. Moreover, the user can navigate to their profile page by clicking on their name on the navigation bar. Additionally, the user can perform searches by clicking on the search button located on the navigation bar. User can also use Living Stories logo for coming back to the Home Page from any page.

User

Story

Header:

Author's Name:

City:

Country:

Label:

Text:

Date

Decade

Exact Date Search

Interval Search

Select a season.

In the search page, the user can search for other users by providing their name. They can also search for stories by using various elements such as text inside the story, labels, headers, authors of the story, locations, or specific date values. This allows the user to perform detailed searches and find the desired users or stories based on specific criteria.

Header:

Labels (comma-separated):

DateDecade

Select a start season.

Select an end season.

Exact DateMonthYear

Select time

Select start date!

Select end date!

Normal B I U S " ' : ; , . - _ ' " & # % & # % & # %


Locations:
Konum girin

HaritaUydu

Create Story!

In the create story page, the user has the ability to create a story with various elements. These include labels, headers, and text. The user can also incorporate photos into their story. Additionally, they have the option to specify a specific date or a date interval for the story. And user should provide at least one location for creating story.

Profile Page



Hello there! My name is Sanan. I hope you will enjoy my stories!

Sanan

Number of followers: 1

Edit Profile

Sanan's Stories

Sanan have 0 story!

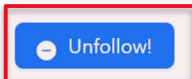
In the my profile page, the user can view their own stories. They also have an edit button available, which allows them to modify their profile details such as their profile photo and user biography.

Profile Page



Hasan

Number of followers: 2



Hello, my name is Hasan Deniz, but people call me Turuncu)

In the profile page of other users, the layout and features are similar to that of your own profile page. However, in this case, you have the additional functionality of being able to follow or unfollow the respective user. By clicking the follow button on other users' profile pages, you

can see their stories in the "Followings" section on the home page. This means that their stories will be displayed specifically for users who have chosen to follow them.

Edit Profile

Change profile picture or edit bio!



Change Photo

Save Changes!

Hello there! My name is Sanan. I hope you will enjoy my stories!

After the user changes their biography and photo, they should press the "Save Changes" button to apply the modifications. If the editing process is successful, the user will be redirected to the home page.



To log out of the app, the user can press the "Logout" button. This action will direct the user to the landing page. It's important to note that upon logging out, the app will delete the JWT

(JSON Web Token) credentials stored in the browser. This ensures that the user is securely logged out and prevents them from accessing any other pages or features without proper authentication.