

## Executive Summary

### The Essence of the Social Network Trip-Tips:

The system provides access to travelers who want to explore entertainment and travel destinations in Israel. Any user can log in to the site as a guest or a registered user. A registered user can share places they have visited by uploading a post that includes: a photo, description, and location to their profile on the site or by sharing another registered user's post on their profile. Additionally, a registered user can "like" posts they enjoyed, allowing other users who view the post to see additional feedback on the place through the number of likes on that post. Registered users can also save posts and access them later. Each registered user is rated based on their activity on the site, helping other users gauge the popularity of the content they upload. In contrast, a guest user can only view user profiles and search and view other users' posts. This way, travelers can discover new places in Israel from other travelers who make the content more accessible and enjoyable.

### Need for Implementation:

Our system can significantly help people who are unfamiliar with the wide variety of places in Israel where they can travel, create new experiences, and be impressed by their spectacular landscapes.

### Target Audience:

Travelers in Israel looking for ideas for trips in the country based on shared landscapes and places by other travelers. Additionally, travelers who want to share places in Israel they have visited.

## Basic Project Infrastructure Setup:

To establish a basic infrastructure for our project, we have taken several steps and used various tools to ensure the project is managed in an organized, efficient, and high-quality manner. Here we detail the steps and tools we have used and will use throughout the project.

### Cloud Services for Project Storage:

For storing and managing the project, we used GitHub, a cloud-based service. GitHub provides us with a platform to store and manage the project's repositories, allowing our team to work together on the project efficiently and in an organized manner. Here are some benefits of using GitHub services, which are highly efficient for our project workflow:

- **Cloud Storage:** The project is stored on GitHub servers, allowing us to access it from anywhere and at any time, as long as there is an internet connection.
- **Collaboration:** GitHub allows us to work together on the same project simultaneously, share code, edit, and merge changes.
- **Version Control:** GitHub provides version control, enabling us to track changes in the code, revert to previous versions, and manage branches.
- **Free:** GitHub offers a wide range of functionalities for free.

We created a new repository on GitHub under the name Trip\_Tips, with a basic structure including server and client directories, each containing placeholder folders to be populated with content as the project progresses.

### Additional Project Management Tools:

Alongside GitHub, we also used other tools to manage the project efficiently and in a synchronized manner:

- **Jira:** For task management, sprint planning, tracking project progress, and ensuring we meet deadlines.
- **Confluence:** For documenting and sharing information and knowledge among team members, managing official documents, and maintaining transparency and coordination within the team.

### Cloud Services for Testing:

To manage and perform testing and ensure product quality, we will use Qase, a tool for testing and quality assurance. Here are some benefits of Qase that will help us during the project:

- **Bug and Issue Management:** Recording bugs and issues found during testing, including full documentation of each problem, and tracking each issue from the moment it is logged until it is fully resolved.
- **Testing Execution:** Using Qase, we will run manual and automated tests on our product to ensure it functions as expected and meets our defined requirements. We will also perform repeated tests to ensure that new changes do not break existing functionality.

We have set up Qase for our product and defined the test cases we want to run on the project, creating various scenarios for functional testing.

### Using NPM:

To manage and install packages, we will use NPM, a package manager for JavaScript that allows dependency management, package installation, and running scripts. NPM offers several advantages:

- **Easy Package Installation:** NPM allows us to install packages easily and quickly, including external code libraries that we can use.
- **Version Management:** NPM enables us to select a specific version of each package, ensuring that the project always uses the same version and preventing compatibility issues.
- **Rich Package Repository:** NPM provides access to a large repository of JavaScript packages, including popular libraries like Express.js, React, etc.
- **Running Tests:** Using the 'npm run test' command, we can run all defined unit tests to ensure our code is of high quality and meets our requirements.

### Using MongoDB:

To store data, we will use MongoDB, a NoSQL database designed for easy data storage and management, providing cloud storage and management solutions. The use of MongoDB and MongoDB Atlas offers us many advantages in data management and storage. MongoDB provides flexibility and support for modern applications, while MongoDB Atlas adds advanced cloud management, high availability, automated backups, and enhanced security, all without the need for infrastructure maintenance. Together, they allow us to focus on developing and improving the system optimally.

## Project Conventions:

### Clean Code:

- **Add Comments:** Add comments in the code to explain important parts. This will help anyone reading the code understand it more quickly.
- **Write Clear and Simple Code:** Write clear and straightforward code, avoiding overly complex code. This will help maintain and update the code more easily.

### Testing:

- **Write Tests for Each Function:** Write tests for each function to ensure it works correctly. The tests will be written in a separate directory to keep things organized.

### Directory Structure:

- **Maintain an Organized Directory Structure:** Keep each component in its directory – source code, tests, images, configuration files, etc. This will make it easier to navigate the project.

### Version Control and Synchronization:

- **Update Code in Git:** Each new version of the code will be updated in Git and synchronized with the rest of the team. This will ensure everyone is working with the latest version of the code.

### Regular Team Meetings:

- **Weekly Team Meeting:** Hold a weekly team meeting to update on project progress, discuss issues, and set goals for the upcoming week. This will help maintain good communication and coordination among team members.

Adhering to these conventions will help us work in an organized and efficient manner, ensuring the project runs smoothly.

## Sprint Breakdown:

### **Sprint 1: Planning and Infrastructure**

During the first sprint, we decided on the overall look of the site, including colors, design, and layout. We wrote the site requirements in the format of user stories to define the features and actions that users will be able to perform. Additionally, we chose the tools and technologies we will use throughout the project, such as React.js, Node.js, GitHub, etc. In this sprint, we also defined the test cases we will need to check in Sprint 4 after the product is ready, and we divided the development requirements into Sprint 3 and Sprint 4 to ensure we meet the project goals and timelines.

### **Sprint 2: Establishing the Base**

During the second sprint, we will start building the site's base by developing the initial pages such as the login page, registration page, and authentication page. We will set up a basic server using Node.js and Express.js to enable communication with the client, and we will create basic routes on the server. At this stage, the focus will be on building the initial infrastructure without complex functionality or page transitions.

### **Sprint 3: Development and Functionality**

During the third sprint, we will continue building the site and begin developing the full functionality of the pages. We will complete the login, registration, and authentication pages, and create the homepage that will include general information and links to other pages. We will develop a modal that displays the content of the post selected by the user, and create a personal profile page where users can view and edit their personal information. Additionally, we will add the ability to upload a new post with a picture, description, and location, and create a profile page for other users where their posts and information can be viewed.

### **Sprint 4: Finalization and Testing**

During the fourth sprint, we will focus on completing the development and required functionality. We will add the ability for users to edit their personal information on the profile page, create a search page that allows users to search for posts and other users, and add a page where users can view ranked users based on their activity on the site. Additionally, we will complete all general system requirements, including final improvements and fixes, and perform tests on all defined user stories to ensure the system operates as expected and meets the requirements.

Following these detailed conventions and sprint breakdown will ensure that we approach the project in a methodical and structured way, leading to a successful and high-quality product.

## User Case + Division into sprints

### Sprint 3:

#### Entry Page

1. As a user, I want the site logo to appear on the entry page so that the user knows which site they are visiting.
2. As a user, I want a short paragraph below the logo explaining the essence of the site so that visitors to the site know what it is about.
3. As a user, I want an image on the entry page to serve as a background to convey the site's experience and meaning to the user.
4. As a user, I want to click the "Continue as Guest" button to continue browsing the site without logging in and proceed to the search page.
5. As a user, I want to click the "Sign Up" button on the entry page so I can register on the site and enjoy its services.
6. As a user, I want to click the "Login" button on the entry page to log in to the site and view the displayed information.

#### Login

7. As a user, I want a login window to pop up above the entry page when I click the login button so that the customer can start the login process.
8. As a user, I want an X button at the top left of the login window to have the option to close the window and return to the entry page.
9. As a user, I want to enter an email/phone number and password to log in to the site with my personal account.
10. As a system, I want the customer to enter their email in the format: xxxx@xxxx.com to ensure proper login.
11. As a system, I want the customer to enter their phone number in the format: 05X-XXXXXXXXX to ensure proper login.
12. As a system, I want the login button to validate the email/phone number and password entered to verify the user details and complete the login process.
13. As a user, I want to receive error messages for invalid input fields after clicking the "Login" button to complete the login process correctly.
14. As a user, I want clicking the "Login" button upon successful login to cause the site to transition to the user's homepage.
15. As a user, I want a "New Traveler" button in the login window to allow unregistered visitors to sign up from this window.

#### Registration:

16. As a user, I want a registration window to pop up above the homepage when I click the sign-up button so that the customer can start the registration process.
17. As a user, I want an X button at the top left of the registration window to have the option to close the window and return to the homepage.
18. As a user, I want the option to add a profile picture in the registration window so that other users can visually identify my account.
19. As a user, I want to enter details such as: full name, username, email, phone number, password, and password confirmation to become a registered user.
20. As a system I want the email, phone, and username details to be unique for each user in order to ensure identity and safety in the system.

21. As a system, I want the customer to enter their email in the format: xxxx@xxxx.com to ensure proper login.
22. As a system, I want the customer to enter their phone number in the format: 05X-XXXXXXXXX to ensure proper login.
23. As a system requirement, the password must contain English letters with at least one uppercase letter, one lowercase letter, and numbers, and it must be at least 8 characters long to prevent security vulnerabilities
24. As a system, I want a validation check after clicking the "Join" button to ensure the user details meet the criteria and complete the registration process.
25. As a system, I want "Invalid input" to appear next to the respective fields if the entered details are incorrect, allowing the user to correct the input and complete the registration process.
26. As a user, I want that clicking the "Join" button upon successful registration to cause the site to transition to the user's homepage.
27. As a system, I want to support user data storage in databases to ensure user details are not deleted from the system and allow users to log in with their existing data.

### Home Page

28. As a user, I want a toolbar at the top of the homepage for quick and easy access to system functionalities.
29. As a user, I want a profile picture button in the homepage toolbar for quick access to personal content from the homepage.
30. As a user, I want a "Plus" button in the homepage toolbar for quick and easy post uploading from the homepage.
31. As a user, I want a "Star" button in the homepage toolbar for quick access to the ratings page from the homepage.
32. As a user, I want a "Logout" button in the homepage toolbar (unless a guest) for quick exit to the homepage.
33. As a user, I want the site logo to redirect to the homepage (unless a guest) for quick access to the main page.
34. As a user, I want all posts from users I follow to appear on my homepage for viewing friends' posts and impressions.
35. As a user, I want the search icon to redirect to the search page for focused searches based on criteria.
36. As a user, I want a post window to open upon clicking a post on the homepage for post details.

### Post Content Impression

37. As a user, I want an X button at the top left of the post window to close the window and return to the homepage.
38. As a user, I want the post image to appear prominently on the right side of the window for better impression.
39. As a user, I want the post's user name, location, title, and description next to the image for more information.
40. As a user, I want the user's star icon with rating next to the image to gauge the popularity of the user.
41. As a user, I want the post's like count next to the image to gauge the post's popularity.
42. As a user, I want a "Save" button next to the image to save the post in my database.
43. As a system, I want to support post saving in databases to prevent deletion from the system.
44. As a user, I want to click the "Save" button again to unsave the post from my saved list.

- 45. As a user, I want a "Share" button next to the image to share it on my profile.
- 46. As a user, I want the option to undo the "Share" action by clicking the button again to remove the post from my shared list.
- 47. As a user, I want a "Like" button next to the image to express appreciation for the content.
- 48. As a user, I want the option to undo the "Like" action by clicking the button again to remove the post from my liked list.

### Personal Profile:

- 49. As a system, I want a toolbar at the top of the personal profile for easy access to system functionalities.
- 50. As a user, I want a "Plus" button in the profile toolbar for quick post uploading.
- 51. As a user, I want a "Star" button in the profile toolbar for quick access to the ratings page.
- 52. As a user, I want my profile picture in the center of my profile page and my username for easy identification and clear presentation of my personal information.
- 53. As a user, I would like the buttons "followers", "following" to appear under my username in order to get a clear snapshot of my social activity online.
- 54. As a user, I would like that when you click on "followers" a panel of my followers list will open so that I can manage my followers.
- 55. As a user, I would like a "remove follower" button to appear next to each follower in the "followers" list so that I can remove followers easily.
- 56. As a user, I would like that when you click on "followes" a window will open with the list of users I follow so that I can see and manage my follow list easily.
- 57. As a user, I would like a "remove follower" button to appear next to each follower in the "followers" list so that I can easily remove followers.
- 58. As a user I would like to see how many stars I have accumulated so that I can track my progress and achievements.
- 59. As a user, I want an "Edit Details" button on my profile page for personal information updates.
- 60. As a system, I want an edit details window to pop up upon clicking the edit profile button for personal information updates.
- 61. As a user, I want a toolbar under the user details on their profile page for easy access to account functionalities.
- 62. As a user, I want a "My Posts" button in the profile toolbar to see all my uploaded posts.
- 63. As a system, I want all of the user posts to load from the database upon clicking the "My Posts" button to ensure updated and accurate information.
- 64. As a user, I want my posts to appear automatically under the "My Posts" button on my profile for easy access and management of uploaded content.
- 65. As a user, I want all my published posts to appear under the "My Posts" button for easy viewing, editing, or deleting.
- 66. As a user, I want a "Saved" button in the profile toolbar to review all saved posts.
- 67. As a system, I want all saved posts to load from the database upon clicking the "Saved" button to ensure updated and accurate information.
- 68. As a user, I want a "Liked" button in the profile toolbar to review all liked posts.
- 69. As a system, I want all liked posts to load from the database upon clicking the "Liked" button to ensure updated and accurate information.
- 70. As a user, I want a "Shared" button in the profile toolbar to review all shared posts.
- 71. As a system, I want all shared posts to load from the database upon clicking the "Shared" button to ensure updated and accurate information.



- 72. As a user, I want there to be a "Statistics" button in the toolbar on the user profile page, so that I can easily access my statistical data and examine my activity on the social network.
- 73. As a system, I want that upon clicking the "Statistics" button, the system will calculate and display how many users shared the user's posts, likes it received, and users saved the post, to allow the user to examine their activity on the social network.
- 74. As a user, I want that upon clicking on a post in one of the buttons "My Posts", "Saved", "Liked", and "Shared", a window will open with the details of the post so that the user can get information about the post.
- 75. As a user, I want that when hovering over a post under the "My Posts" button, an edit/delete button will appear, allowing me to delete/update the content of the post.

### Post Upload:

- 76. As a user, I want a toolbar at the top of the post upload page to easily access the system's functionality.
- 77. As a user, I want a button with the user's profile picture in the toolbar on the post upload page so that after clicking it, the user can quickly access content in the personal area from this page.
- 78. As a user, I want a "Star" button in the toolbar on the post upload page so that after clicking it, the user will be transferred to the ratings page quickly and easily from this page.
- 79. As a system, I want a "Search" button in the toolbar on the post upload page so that after clicking it, the user will be transferred to the search page quickly and easily from this page.
- 80. As a user, I want to upload a photo or video to the site to complete the post upload process to my personal profile.
- 81. As a user, I want to write a title for the post to complete the post upload process.
- 82. As a user, I want to write a description for the post to provide more detailed and specific information about the place the user is posting.
- 83. As a user, I want to add a location to the post to complete the post upload process.
- 84. As a user, I want to click the "Publish" button so that the user can complete the post upload process after filling in the required details correctly.
- 85. As a system, I want to block the user from uploading a post if the user has not uploaded a photo or video or if the post title and post location input fields are not filled to ensure that the posts appearing on the site are valuable.
- 86. As a system, I want to support location services to provide access to places in Israel when entering a location as the user uploads a post.
- 87. As a system, I want to support uploading photos and videos to the site so that the user can upload posts as required.
- 88. As a system, I want to save the posts uploaded by the user in the database so that users can access them.

### User Profile

- 89. As a system, I want a toolbar at the top of the page so that users can conveniently access system functionalities.
- 90. As a user, I want to click the "plus" button in the toolbar on this page so that I can quickly post content.
- 91. As a user, I want to click the "star" button in the toolbar on this page so that I can quickly navigate to the ratings page.
- 92. As a user, I want another user's profile picture and username to appear in the center of the page, so it is easy to identify their profile and display their content clearly and understandably.

93. As a user, I want the number of followers of the user whose page I am on to appear, so I can get an impression of their popularity.
94. As a user, I want to see how many stars the user whose page I am on has accumulated, so I can see their achievements on the site.
95. As a user, I want to click the "Follow" button on this user's page so that I can see their posts on my homepage.
96. As a user, I want to click the "Unfollow" button below the profile picture on this user's page so that I can stop seeing their posts on my homepage.
97. As a user, I want a toolbar under the user's details on this page, so that I can conveniently access the user's account functionalities.
98. As a user, I want a "Posts" button in the toolbar on the user's profile page so that I can see all the posts of the user whose profile I am viewing.
99. As a system, I want all the posts uploaded by the user whose profile I am viewing to be loaded from the database when the "Posts" button is clicked, to ensure the display of accurate and up-to-date information.
100. As a user, I want the posts under the "Posts" button to appear automatically when entering another user's profile page, so that I can easily access the content they have uploaded.
101. As a user, I want a "Shared" button in the toolbar on the profile page of the user whose page I am viewing so that I can see all the posts they have shared.
102. As a system, I want all the posts shared by the user whose page I am viewing to be loaded from the database when the "Shared" button is clicked, to ensure the display of accurate and up-to-date information.
103. As a user, I want a post window to open when clicking on a post in the "Posts" or "Shared" sections, so that I can get details about the post.

## **Sprint 4:**

### **Editing Personal Details**

104. As a user, I want an "X" button to appear in the top-left corner of the profile editing window so that I can exit the editing window without saving the changes made.
105. As a user, I want to update my profile picture in the profile editing window so that other users can visually identify me with an up-to-date picture.
106. As a system, I want the user to enter their email in the format: xxxx@xxxx.com to ensure the details are updated correctly.
107. As a system, I want the user to enter their phone number in the format: XXXXXXXX-X05 to ensure the details are updated correctly.
108. As a system, I want the customer to enter their password in the profile update window in the format of English letters with at least one uppercase letter, one lowercase letter, numbers, and at least 8 characters, to prevent security weaknesses.
109. As a user, I want to enter valid details such as full name, username, email, phone number, password, and password confirmation to update my personal details on the site.
110. As a system, I want that upon clicking the "Update" button, the details entered by the user will be checked to ensure they meet the criteria and are valid.
111. As a user, I want to click the "Update" button so that the system checks if the details are valid, and if so, the profile update process will be completed, and the window will close.
112. As a system, I want that if the details entered by the user are not valid after clicking the "Update" button, an "Invalid input" message will appear next to the relevant fields to allow the user to correct the inputs and complete the registration process.

- 113. As a user, I want to click the "Delete Account" button to delete all user data from the system's database.
- 114. As a user, I want a window with the question "Are you sure you want to delete the account?" with yes/no options to complete the profile deletion process.
- 115. As a system, I want to delete all user data from the system when the user clicks "Yes" in the confirmation window after clicking the "Delete Account" button to free up space in the system from non-existent users.
- 116. As a system, I want that when the user clicks "No" in the confirmation window after clicking the "Delete Account" button, the window will close, and the user will see their personal profile to discontinue the account deletion process.

#### Search Page:

- 117. As a user, I want to be able to access my personal profile from the search page if the user is not a guest to make it easier to access content in the personal area from the search page.
- 118. As a user, I want to be able to upload a post from the search page if the user is not a guest to make it easier to upload a post from the search page.
- 119. As a user, I want to be able to access the ratings page from the search page to make it easier to access content on the ratings page from this page.
- 120. As a user, I want all the posts uploaded to the site to appear randomly when entering the search page so that the site user can view posts with high exposure and those with less.
- 121. As a user, I want to filter the posts on the search page by: number of "Likes", North, South, or Central to view the most relevant posts.
- 122. As a user, I want to search for existing users on the search page by user input to view the profile of that user.
- 123. As a user, I want to search for posts on the search page by user input to access more relevant content.
- 124. As a user, I want a message to appear on the screen if there are no data related to the user's input in the database after performing a search by user input.
- 125. As a user, I want to see a toolbar at the top of the search page to easily and quickly access the system's functionality.
- 126. As a user, I want to be able to click a button with the user's profile picture in the toolbar on the search page if the user is not a guest so that after clicking it, the user can quickly access content in the personal area from the search page.
- 127. As a guest user, I want to click the "Login" button in the toolbar to log into the system.
- 128. As a system, I want a "Plus" button in the toolbar on the search page so that after clicking it, if the user is not a guest, a post can be uploaded quickly and easily from the search page.
- 129. As a system, I want a "Star" button in the toolbar on the search page so that after clicking it, the user will be transferred to the ratings page quickly and easily from the search page.
- 130. As a user, I want a search bar in the toolbar on the search page to enter input to search for users or places in the system's database more focused.
- 131. As a user, I want a window to open with the post details when clicking on a post on the search page so that the user can get information about the post and perform additional actions.

#### Viewing Users from Ratings Page:

- 132. As a user, I want to be able to access my personal profile from the ratings page if the user is not a guest to make it easier to access content in the personal area from this page.
- 133. As a user, I want to be able to upload a post from the ratings page if the user is not a guest to make it easier to upload a post from this page.

- 134. As a user, I want to be able to access the search page from the ratings page to search for relevant content on the site more accessible.
- 135. As a guest user, I want to click the login button on this page so that I can log in to the system from this page.
- 136. As a user, I want to see the list of users on the site and their number of ratings sorted from highest to lowest when entering the ratings page so that I can access the profile of a user who is on the list.
- 137. As a user, I want to click on a username in the displayed list to go to their personal profile.
- 138. As a system, I want to sort the ratings of each user from highest to lowest to display a sorted list of users according to the rating on the site.

### General Requirements

- 139. As a user, I want the system to support high loads and maintain high performance to ensure smooth usage even during peak times.
- 140. As a user, I want the system to be continuously available to ensure maximum availability.
- 141. As a user, I want the site to load at high speed to improve the user experience.
- 142. As a user, I want the system to maintain a high level of information security to protect my personal information.
- 143. As a user, I want the system to support a large and secure database to store large amounts of information efficiently and securely.
- 144. As a user, I want the system to support fast searches within the database to find information quickly and efficiently.
- 145. As a user, I want the system to support large numbers of simultaneous requests to the database to maintain good performance even under high loads.
- 146. As a user, I want the system to support advanced search options, including full-text and geographical searches.
- 147. As a user, I want the system to support role-based access management to allow different users to access different levels of information.
- 148. As a user, I want the system to support data validation and verification to ensure that the information in the database is accurate and correct.

Sprint 3:	Sprint 4:
<p><u>Entry Page</u></p> <ol style="list-style-type: none"> <li>1. As a user, I want the site logo to appear on the entry page so that the user knows which site they are visiting.</li> <li>2. As a user, I want a short paragraph below the logo explaining the essence of the site so that visitors to the site know what it is about.</li> <li>3. As a user, I want an image on the entry page to serve as a background to convey the site's experience and meaning to the user.</li> <li>4. As a user, I want to click the "Continue as Guest" button to continue browsing the site without logging in and proceed to the search page.</li> <li>5. As a user, I want to click the "Sign Up" button on the entry page so I can register on the site and enjoy its services.</li> <li>6. As a user, I want to click the "Login" button on the entry page to log in to the site and view the displayed information.</li> </ol> <p><u>Login</u></p> <ol style="list-style-type: none"> <li>7. As a user, I want a login window to pop up above the entry page when I click the login button so that the customer can start the login process.</li> <li>8. As a user, I want an X button at the top left of the login window to have the option to close the window and return to the entry page.</li> <li>9. As a user, I want to enter an email/phone number and password to log in to the site with my personal account.</li> <li>10. As a system, I want the customer to enter their email in the format: xxxx@xxxx.com to ensure proper login.</li> <li>11. As a system, I want the customer to enter their phone number in the format: 05X-XXXXXXXXX to ensure proper login.</li> <li>12. As a system, I want the login button to validate the email/phone number and password entered to verify the user details and complete the login process.</li> <li>13. As a user, I want to receive error messages for invalid input fields after clicking the "Login" button to complete the login process correctly.</li> </ol>	<p><u>Editing Personal Details</u></p> <ol style="list-style-type: none"> <li>1. As a user, I want an "X" button to appear in the top-left corner of the profile editing window so that I can exit the editing window without saving the changes made.</li> <li>2. As a user, I want to update my profile picture in the profile editing window so that other users can visually identify me with an up-to-date picture.</li> <li>3. As a system, I want the user to enter their email in the format: xxxx@xxxx.com to ensure the details are updated correctly.</li> <li>4. As a system, I want the user to enter their phone number in the format: XXXXXXXX-X05 to ensure the details are updated correctly.</li> <li>5. As a system, I want the customer to enter their password in the profile update window in the format of English letters with at least one uppercase letter, one lowercase letter, numbers, and at least 8 characters, to prevent security weaknesses.</li> <li>6. As a user, I want to enter valid details such as full name, username, email, phone number, password, and password confirmation to update my personal details on the site.</li> <li>7. As a system, I want that upon clicking the "Update" button, the details entered by the user will be checked to ensure they meet the criteria and are valid.</li> <li>8. As a user, I want to click the "Update" button so that the system checks if the details are valid, and if so, the profile update process will be completed, and the window will close.</li> <li>9. As a system, I want that if the details entered by the user are not valid after clicking the "Update" button, an "Invalid input" message will appear next to the relevant fields to allow the user to correct the inputs and complete the registration process.</li> <li>10. As a user, I want to click the "Delete Account" button to delete all user data from the system's database.</li> <li>11. As a user, I want a window with the question "Are you sure you want to delete the account?" with yes/no options to complete the profile deletion process.</li> </ol>

14. As a user, I want clicking the "Login" button upon successful login to cause the site to transition to the user's homepage.
15. As a user, I want a "New Traveler" button in the login window to allow unregistered visitors to sign up from this window.

#### Registration:

16. As a user, I want a registration window to pop up above the homepage when I click the sign-up button so that the customer can start the registration process.
17. As a user, I want an X button at the top left of the registration window to have the option to close the window and return to the homepage.
18. As a user, I want the option to add a profile picture in the registration window so that other users can visually identify my account.
19. As a user, I want to enter details such as: full name, username, email, phone number, password, and password confirmation to become a registered user.
20. As a system I want the email, phone, and username details to be unique for each user in order to ensure identity and safety in the system.
21. As a system, I want the customer to enter their email in the format: xxxx@xxxx.com to ensure proper login.
22. As a system, I want the customer to enter their phone number in the format: 05X-XXXXXXX to ensure proper login.
23. As a system requirement, the password must contain English letters with at least one uppercase letter, one lowercase letter, and numbers, and it must be at least 8 characters long to prevent security vulnerabilities
24. As a system, I want a validation check after clicking the "Join" button to ensure the user details meet the criteria and complete the registration process.
25. As a system, I want "Invalid input" to appear next to the respective fields if the entered details are incorrect, allowing the user to correct the input and complete the registration process.
26. As a user, I want that clicking the "Join" button upon successful registration to

12. As a system, I want to delete all user data from the system when the user clicks "Yes" in the confirmation window after clicking the "Delete Account" button to free up space in the system from non-existent users.
13. As a system, I want that when the user clicks "No" in the confirmation window after clicking the "Delete Account" button, the window will close, and the user will see their personal profile to discontinue the account deletion process.

#### Search Page:

14. As a user, I want to be able to access my personal profile from the search page if the user is not a guest to make it easier to access content in the personal area from the search page.
15. As a user, I want to be able to upload a post from the search page if the user is not a guest to make it easier to upload a post from the search page.
16. As a user, I want to be able to access the ratings page from the search page to make it easier to access content on the ratings page from this page.
17. As a user, I want all the posts uploaded to the site to appear randomly when entering the search page so that the site user can view posts with high exposure and those with less.
18. As a user, I want to filter the posts on the search page by: number of "Likes", North, South, or Central to view the most relevant posts.
19. As a user, I want to search for existing users on the search page by user input to view the profile of that user.
20. As a user, I want to search for posts on the search page by user input to access more relevant content.
21. As a user, I want a message to appear on the screen if there are no data related to the user's input in the database after performing a search by user input.
22. As a user, I want to see a toolbar at the top of the search page to easily and quickly access the system's functionality.
23. As a user, I want to be able to click a button with the user's profile picture in the toolbar



cause the site to transition to the user's homepage.

27. As a system, I want to support user data storage in databases to ensure user details are not deleted from the system and allow users to log in with their existing data.

### Home Page

28. As a user, I want a toolbar at the top of the homepage for quick and easy access to system functionalities.
29. As a user, I want a profile picture button in the homepage toolbar for quick access to personal content from the homepage.
30. As a user, I want a "Plus" button in the homepage toolbar for quick and easy post uploading from the homepage.
31. As a user, I want a "Star" button in the homepage toolbar for quick access to the ratings page from the homepage.
32. As a user, I want a "Logout" button in the homepage toolbar (unless a guest) for quick exit to the homepage.
33. As a user, I want the site logo to redirect to the homepage (unless a guest) for quick access to the main page.
34. As a user, I want all posts from users I follow to appear on my homepage for viewing friends' posts and impressions.
35. As a user, I want the search icon to redirect to the search page for focused searches based on criteria.
36. As a user, I want a post window to open upon clicking a post on the homepage for post details.

### Post Content Impression

37. As a user, I want an X button at the top left of the post window to close the window and return to the homepage.
38. As a user, I want the post image to appear prominently on the right side of the window for better impression.
39. As a user, I want the post's user name, location, title, and description next to the image for more information.
40. As a user, I want the user's star icon with rating next to the image to gauge the popularity of the user.
41. As a user, I want the post's like count next to the image to gauge the post's popularity.

on the search page if the user is not a guest so that after clicking it, the user can quickly access content in the personal area from the search page.

24. As a guest user, I want to click the "Login" button in the toolbar to log into the system.
25. As a system, I want a "Plus" button in the toolbar on the search page so that after clicking it, if the user is not a guest, a post can be uploaded quickly and easily from the search page.
26. As a system, I want a "Star" button in the toolbar on the search page so that after clicking it, the user will be transferred to the ratings page quickly and easily from the search page.
27. As a user, I want a search bar in the toolbar on the search page to enter input to search for users or places in the system's database more focused.
28. As a user, I want a window to open with the post details when clicking on a post on the search page so that the user can get information about the post and perform additional actions.

### Viewing Users from Ratings Page:

29. As a user, I want to be able to access my personal profile from the ratings page if the user is not a guest to make it easier to access content in the personal area from this page.
30. As a user, I want to be able to upload a post from the ratings page if the user is not a guest to make it easier to upload a post from this page.
31. As a user, I want to be able to access the search page from the ratings page to search for relevant content on the site more accessible.
32. As a guest user, I want to click the login button on this page so that I can log in to the system from this page.
33. As a user, I want to see the list of users on the site and their number of ratings sorted from highest to lowest when entering the ratings page so that I can access the profile of a user who is on the list.
34. As a user, I want to click on a username in the displayed list to go to their personal profile.

- 42. As a user, I want a "Save" button next to the image to save the post in my database.
- 43. As a system, I want to support post saving in databases to prevent deletion from the system.
- 44. As a user, I want to click the "Save" button again to unsave the post from my saved list.
- 45. As a user, I want a "Share" button next to the image to share it on my profile.
- 46. As a user, I want the option to undo the "Share" action by clicking the button again to remove the post from my shared list.
- 47. As a user, I want a "Like" button next to the image to express appreciation for the content.
- 48. As a user, I want the option to undo the "Like" action by clicking the button again to remove the post from my liked list.

#### Personal Profile:

- 49. As a system, I want a toolbar at the top of the personal profile for easy access to system functionalities.
- 50. As a user, I want a "Plus" button in the profile toolbar for quick post uploading.
- 51. As a user, I want a "Star" button in the profile toolbar for quick access to the ratings page.
- 52. As a user, I want my profile picture in the center of my profile page and my username for easy identification and clear presentation of my personal information.
- 53. As a user, I would like the buttons "followers", "following" to appear under my username in order to get a clear snapshot of my social activity online.
- 54. As a user, I would like that when you click on "followers" a panel of my followers list will open so that I can manage my followers.
- 55. As a user, I would like a "remove follower" button to appear next to each follower in the "followers" list so that I can remove followers easily.
- 56. As a user, I would like that when you click on "followes" a window will open with the list of users I follow so that I can see and manage my follow list easily.
- 57. As a user, I would like a "remove follower" button to appear next to each follower in

- 35. As a system, I want to sort the ratings of each user from highest to lowest to display a sorted list of users according to the rating on the site.

#### General Requirements

- 36. As a user, I want the system to support high loads and maintain high performance to ensure smooth usage even during peak times.
- 37. As a user, I want the system to be continuously available to ensure maximum availability.
- 38. As a user, I want the site to load at high speed to improve the user experience.
- 39. As a user, I want the system to maintain a high level of information security to protect my personal information.
- 40. As a user, I want the system to support a large and secure database to store large amounts of information efficiently and securely.
- 41. As a user, I want the system to support fast searches within the database to find information quickly and efficiently.
- 42. As a user, I want the system to support large numbers of simultaneous requests to the database to maintain good performance even under high loads.
- 43. As a user, I want the system to support advanced search options, including full-text and geographical searches.
- 44. As a user, I want the system to support role-based access management to allow different users to access different levels of information.
- 45. As a user, I want the system to support data validation and verification to ensure that the information in the database is accurate and correct.



the "followers" list so that I can easily remove followers.

58. As a user I would like to see how many stars I have accumulated so that I can track my progress and achievements.
59. As a user, I want an "Edit Details" button on my profile page for personal information updates.
60. As a system, I want an edit details window to pop up upon clicking the edit profile button for personal information updates.
61. As a user, I want a toolbar under the user details on their profile page for easy access to account functionalities.
62. As a user, I want a "My Posts" button in the profile toolbar to see all my uploaded posts.
63. As a system, I want all of the user posts to load from the database upon clicking the "My Posts" button to ensure updated and accurate information.
64. As a user, I want my posts to appear automatically under the "My Posts" button on my profile for easy access and management of uploaded content.
65. As a user, I want all my published posts to appear under the "My Posts" button for easy viewing, editing, or deleting.
66. As a user, I want a "Saved" button in the profile toolbar to review all saved posts.
67. As a system, I want all saved posts to load from the database upon clicking the "Saved" button to ensure updated and accurate information.
68. As a user, I want a "Liked" button in the profile toolbar to review all liked posts.
69. As a system, I want all liked posts to load from the database upon clicking the "Liked" button to ensure updated and accurate information.
70. As a user, I want a "Shared" button in the profile toolbar to review all shared posts.
71. As a system, I want all shared posts to load from the database upon clicking the "Shared" button to ensure updated and accurate information.
72. As a user, I want there to be a "Statistics" button in the toolbar on the user profile page, so that I can easily access my statistical data and examine my activity on the social network.

- 73. As a system, I want that upon clicking the "Statistics" button, the system will calculate and display how many users shared the user's posts, likes it received, and users saved the post, to allow the user to examine their activity on the social network.
- 74. As a user, I want that upon clicking on a post in one of the buttons "My Posts", "Saved", "Liked", and "Shared", a window will open with the details of the post so that the user can get information about the post.
- 75. As a user, I want that when hovering over a post under the "My Posts" button, an edit/delete button will appear, allowing me to delete/update the content of the post.

#### **Post Upload:**

- 76. As a user, I want a toolbar at the top of the post upload page to easily access the system's functionality.
- 77. As a user, I want a button with the user's profile picture in the toolbar on the post upload page so that after clicking it, the user can quickly access content in the personal area from this page.
- 78. As a user, I want a "Star" button in the toolbar on the post upload page so that after clicking it, the user will be transferred to the ratings page quickly and easily from this page.
- 79. As a system, I want a "Search" button in the toolbar on the post upload page so that after clicking it, the user will be transferred to the search page quickly and easily from this page.
- 80. As a user, I want to upload a photo or video to the site to complete the post upload process to my personal profile.
- 81. As a user, I want to write a title for the post to complete the post upload process.
- 82. As a user, I want to write a description for the post to provide more detailed and specific information about the place the user is posting.
- 83. As a user, I want to add a location to the post to complete the post upload process.
- 84. As a user, I want to click the "Publish" button so that the user can complete the

post upload process after filling in the required details correctly.

- 85. As a system, I want to block the user from uploading a post if the user has not uploaded a photo or video or if the post title and post location input fields are not filled to ensure that the posts appearing on the site are valuable.
- 86. As a system, I want to support location services to provide access to places in Israel when entering a location as the user uploads a post.
- 87. As a system, I want to support uploading photos and videos to the site so that the user can upload posts as required.
- 88. As a system, I want to save the posts uploaded by the user in the database so that users can access them.

### User Profile

- 89. As a system, I want a toolbar at the top of the page so that users can conveniently access system functionalities.
- 90. As a user, I want to click the "plus" button in the toolbar on this page so that I can quickly post content.
- 91. As a user, I want to click the "star" button in the toolbar on this page so that I can quickly navigate to the ratings page.
- 92. As a user, I want another user's profile picture and username to appear in the center of the page, so it is easy to identify their profile and display their content clearly and understandably.
- 93. As a user, I want the number of followers of the user whose page I am on to appear, so I can get an impression of their popularity.
- 94. As a user, I want to see how many stars the user whose page I am on has accumulated, so I can see their achievements on the site.
- 95. As a user, I want to click the "Follow" button on this user's page so that I can see their posts on my homepage.
- 96. As a user, I want to click the "Unfollow" button below the profile picture on this user's page so that I can stop seeing their posts on my homepage.
- 97. As a user, I want a toolbar under the user's details on this page, so that I can conveniently access the user's account functionalities.

<p>98. As a user, I want a "Posts" button in the toolbar on the user's profile page so that I can see all the posts of the user whose profile I am viewing.</p> <p>99. As a system, I want all the posts uploaded by the user whose profile I am viewing to be loaded from the database when the "Posts" button is clicked, to ensure the display of accurate and up-to-date information.</p> <p>100. As a user, I want the posts under the "Posts" button to appear automatically when entering another user's profile page, so that I can easily access the content they have uploaded.</p> <p>101. As a user, I want a "Shared" button in the toolbar on the profile page of the user whose page I am viewing so that I can see all the posts they have shared.</p> <p>102. As a system, I want all the posts shared by the user whose page I am viewing to be loaded from the database when the "Shared" button is clicked, to ensure the display of accurate and up-to-date information.</p> <p>103. As a user, I want a post window to open when clicking on a post in the "Posts" or "Shared" sections, so that I can get details about the post.</p>	
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### Test cases by epics:

#### Entry Page

1. Click on the "Continue as Guest" button
2. Click on the "Continue as Guest" button
3. Click on the 'Login' Button
4. Click on the 'Login' Button

#### Login

5. pressing a button X
6. Entering an incorrect email and correct password
7. Entering an incorrect phone number and correct password
8. Entering an incorrect password and a valid email
9. Entering an incorrect password and a valid phone number
10. Entering an invalid email and password
11. Entering an incorrect phone number and incorrect password
12. Entering a valid email and password
13. Entering a valid phone number and a valid password
14. Clicking the "insert me" button without entering details
15. Clicking on the "New traveler" button without entering details
16. Clicking on the "New traveler" button after entering details

**Registration**

17. Click on the 'X' Button
18. Click on the 'Add Me' Button Without Entering Details
19. Entering all details correctly
20. Entering an invalid email format while other details are correct
21. Entering an invalid phone number format while other details are correct
22. Entering an invalid password format while other details are correct.
23. Entering a verification password that does not match the initial password, while other details are correct.
24. Invalid email and phone number format, all other details are valid
25. Invalid email and password format, all other details are valid.
26. The entered email and password verification do not match the initial password all other details are valid.
27. Entering an email that already exists in the database.
28. Entering a phone number that already exists in the database.
29. Entering a username that already exists in the database.
30. Entering a phone number and email that already exist in the database.
31. Entering a phone number and username that already exist in the database.
32. Entering a username and email that already exist in the database.
33. Entering a username, email, and phone number that already exist in the database.
34. Clicking the 'Add Me' button with all valid details.

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**Home Page**

35. Clicking on "Log out" from the home page
36. Clicking on the website logo from the home page
37. Clicking on the "plus" icon from the home page
38. Clicking on the image/video of the post
39. Clicking on the search icon from the home page.

**Post Content Impression**

40. Click on the post photo/video
41. Click the name of the user who uploaded the post
42. Clicking on the "Save" button
43. Clicking on the "Save" button after I have already clicked on it
44. Clicking on the "Share" button
45. Clicking on the "Share" button after I have already clicked on it
46. Clicking on the "Like" button
47. Clicking the "Like" button after I've already clicked on it
48. Clicking on the "Save" button after I have already clicked on it without deleting it
49. Clicking on the "Share" button after I have already clicked on it without deleting it
50. Clicking the "Like" button after I've already clicked on it without deleting it

**Personal Profile**

51. Clicking on "Log out" from the personal profile
52. Clicking on "following" and viewing the list of people I follow.
53. Clicking on "unfollow" after clicking on the "followers" category.
54. Clicking on "followers" and viewing the list of people who follow me.
55. Clicking on "unfollow" after clicking on the "following" category.
56. Clicking on "edit profile" and going to the personal details editing window.

57. Clicking on the "my posts" category and viewing my posts.
58. Hovering over a post in the "my posts" section and viewing the delete and edit options.
59. Clicking on delete post.
60. Clicking on edit post.
61. Clicking on the "saved" category and viewing the posts I saved.
62. Clicking on the "liked" category and viewing the posts I liked.
63. Clicking on the "shared" category and viewing the posts of others that I shared.
64. Clicking on the "statistics" button and viewing the statistical data of my activity on the site.
65. Viewing the amount of ratings I have in my personal profile
66. Clicking on the website logo from the personal profile

### **Post Upload**

67. Clicking on 'Log Out' from the photo upload page.
68. Clicking on the website logo from the photo upload page.
69. Clicking on the search icon from the photo upload page.
70. Insert an image file
71. Add a video file
72. Clicking "Post" after entering a title, description, location and photo/video
73. Clicking "Post" after entering a title, description and location without entering an image/video
74. Clicking "Post" after entering a title, description and photo/video without entering a location
75. Clicking "Post" after entering a title, location and photo/video without entering a description
76. Clicking on the name of the user who uploaded the post
77. Clicking "Post" after entering a description, location and photo/video without entering a title
78. Clicking "Post" after entering a title and description without entering a location and photo/video
79. Clicking "Post" after entering a location without entering a title, description and photo/video
80. Clicking "Post" after entering a title and photo/video without entering a description and location
81. Clicking "Post" after entering a description and location without entering a title and photo/video
82. Click "Post" after entering a description and photo/video without entering a title and location
83. Clicking "Post" after entering a location and photo/video without entering a title and description
84. Clicking "Post" after entering a title without entering a description, location and photo/video
85. Clicking "Post" after entering a description without entering a title, location and photo/video
86. Clicking "Post" without entering a title, description, location and photo/video
87. Clicking "Post" after entering a photo/video without entering a title, description and location

### **User Profile**

88. Viewing another user's profile and viewing the toolbar, their profile picture, their username, their number of followers, their ratings, the secondary toolbar, and their posts.
89. Clicking the "plus" button in the toolbar on another user's profile page.
90. Clicking the "star" button in the toolbar on another user's profile page.
91. Clicking the "Follow" button and checking if the user was added to the followers list.
92. Clicking the "Unfollow" button and checking if the user was removed from the followers list.
93. Clicking the "Posts" button and viewing the user's posts on this page.
94. Clicking the "Shared" button on this page and viewing the content the user has shared.
95. Clicking a post after clicking the "Posts" button on another user's page and viewing the post content.
96. Clicking a post after clicking the "Shared" button on another user's page and viewing the post content.

### **Editing Personal Details**

97. Click on the 'X' Button
98. Click on the 'edit personal details' Button Without Entering Details
99. Entering all details correctly
100. Entering an invalid email format while other details are correct

101. Entering an invalid phone number format while other details are correct
102. Entering an invalid password format while other details are correct.
103. Entering a verification password that does not match the initial password, while other details are correct.
104. Invalid email and phone number format, all other details are valid
105. Invalid email and password format, all other details are valid.
106. The entered email and password verification do not match the initial password all other details are valid.
107. Entering an email that already exists in the database.
108. Entering a phone number that already exists in the database.
109. Entering a username that already exists in the database.
110. Entering a phone number and email that already exist in the database.
111. Entering a phone number and username that already exist in the database.
112. Entering a username and email that already exist in the database.
113. Entering a username, email, and phone number that already exist in the database.
114. Clicking the 'Update' button with all valid details.
115. Clicking the 'Edit personal information' button with all valid details.
116. Clicking "Yes" after deleting an account
117. Clicking "No" after deleting an account

#### **Search Page**

118. Filter search results by region in Israel
119. Clicking on 'Logout' from the search page.
120. Clicking on the website logo from the search page.
121. Clicking on the search icon from the search page.
122. Clicking on the plus icon from the search page.
123. Clicking on a post on the search page.
124. Filter search results by ranking
125. Filter results by ranking and region in Israel
126. Search for an existing zone in the system
127. Search for a non-existent zone in the system
128. Search for an existing user
129. Search for a non-existent user
130. Clicking on the image/video of the post

#### **Viewing Users from Ratings Page**

131. Clicking on the profile picture button in the toolbar on the ratings page
132. Clicking on the "Plus" button in the toolbar on the ratings page.
133. Clicking on the search button in the toolbar on the ratings page.
134. Entering the system as a guest and clicking on the login button on the ratings page.
135. Entering the ratings page and viewing the list of users on the site.
136. Clicking on a username from the displayed list on the ratings page.
137. Clicking on "Log out" from the rating page
138. Clicking on the website logo from the rating page
139. Clicking on the search icon from the rating page

## Sprint 2:

In this sprint, we began developing the "TripTips" project, a website designed to provide information for travelers and serve as a social network. The project involves building a Node.js and Express-based backend server and a React-based frontend. "TripTips" will allow users to log in, manage personal data, and access various services securely and efficiently, enabling them to share experiences, connect with other travelers, and stay updated with important information.

### Work steps in this sprint:

1. **Installing essential npm packages:** We installed packages such as Express for server building, Body-Parser for parsing data from HTTP requests, Bcrypt for password encryption, and Mongoose for managing the database in MongoDB.
2. **Starting to build the server:** We built the server foundations using Express, including setting up routes to handle HTTP requests.
3. **Data storage:** We began setting up the database in MongoDB using Mongoose, including defining user models.
4. Starting to build the client
5. Basic system tests
6. Linter
7. CircleCI

### The pages we built in this sprint:

- **Registration page:** Allows new users to sign up for the application using email, username, location and password with data validation.
  - **Login page:** Allows users to log in to the application using email and password, with data validation from MongoDB. The login is done by communicating with the server. Once logged in, the user is redirected to the home page.
  - **Home page:** Displays a basic page with a basic toolbar, where clicking on the question mark icon navigates to the "About" page. (To go to the home page also in this sprint, the user must register and connect to the website!)
  - **About page:** Provides general information about the application.
- We chose React because it allows for building dynamic and fast websites in a simple way. With React, we can create small, reusable components, which makes code maintenance easier and keeps it organized and readable. React also enhances site performance by enabling quick and efficient updates to the user interface.
  - We chose CircleCI as our CI/CD solution because of its capability to automate build, test, and deployment processes, along with easy integration with GitHub. It offers high performance with fast builds, supports complex workflows, and provides analysis and reporting tools that help us maintain code quality and streamline the development process.

**Server git link:** [https://github.com/adima1/Server\\_TripTips.git](https://github.com/adima1/Server_TripTips.git)

**Client git link:** [https://github.com/adima1/Client\\_TripTips.git](https://github.com/adima1/Client_TripTips.git)

**Server CircleCI git link:** [https://github.com/adima1/Server\\_TripTips/tree/circleci-project-setup](https://github.com/adima1/Server_TripTips/tree/circleci-project-setup)

**Client CircleCI git link:** [https://github.com/adima1/Client\\_TripTips/tree/circleci-project-setup](https://github.com/adima1/Client_TripTips/tree/circleci-project-setup)



## Tests:

We performed tests for validation schemas of registration and login forms using Mocha and Chai.

Our CircleCI runs our tests automatically, but if we want to run the tests manually, we will execute the command:  
run test

### Details of the tests:

#### Registration Schema:

##### 1. **Valid Registration Form Test:**

- Define an object with valid data.
- Validate the object using the schema.
- Expect the result to be true.

##### 2. **Empty Registration Form Test:**

- Define an empty object.
- Validate the object using the schema.
- Expect the result to be false.

##### 3. **Registration Form with Invalid Password Test:**

- Define an object with a password that does not meet the criteria.
- Validate the object using the schema.
- Expect the result to be false.

#### Login Schema:

##### 1. **Valid Login Form Test:**

- Define an object with valid data.
- Validate the object using the schema.
- Expect the result to be true.

##### 2. **Empty Login Form Test:**

- Define an empty object.
- Validate the object using the schema.
- Expect the result to be false.

### **Tools we used:**

- **Yup** - A schema validation library.
- **Mocha** - A testing library for JavaScript.
- **Chai** - A library used together with Mocha to ensure that results match expectations.

## Screenshots of the website pages:

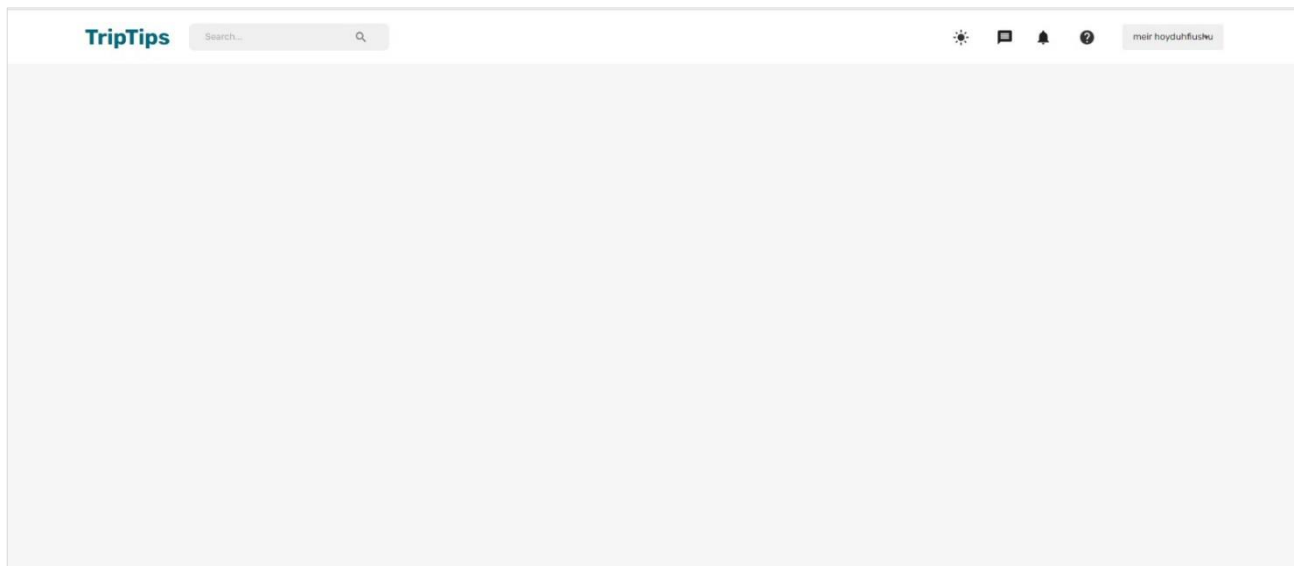
### - Login page:



### - Registration page:



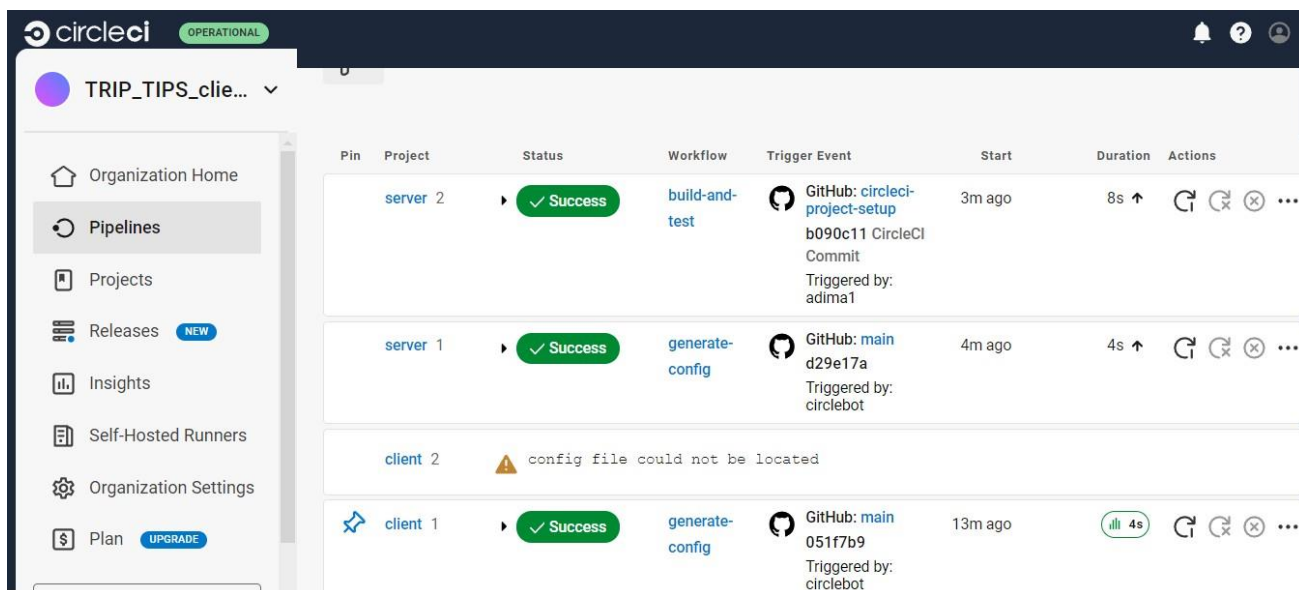
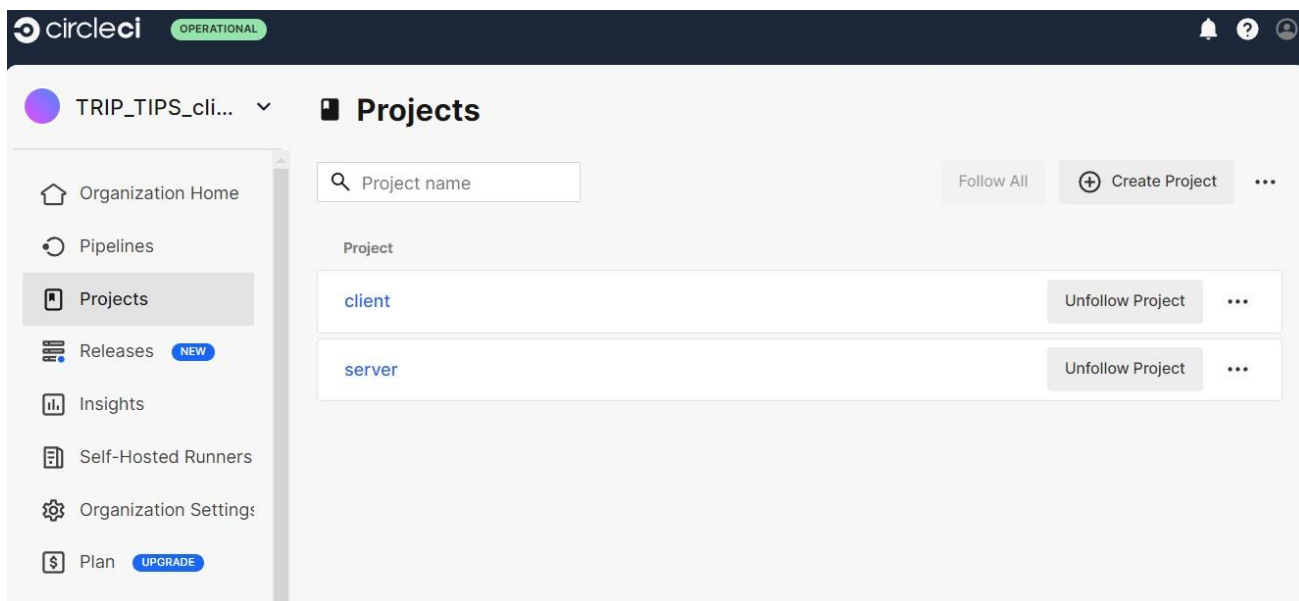
- **Home page:**



- **About page:**



## CircleCI Screenshots:



## README.md

"TripTips" is a website designed to provide information for travelers and serve as a social network. The project includes a Node.js and Express-based backend server and a React-based frontend.

Steps to install the project: Use Visual Studio Code where we wrote our code.

Steps to install and run the project:

### 1. Installing Node.js along with npm:

#### - **Check if npm is already installed:**

- Open terminal or cmd and type the command: 'npm -v' to check if it is already installed on your computer.

#### - **If Node.js and npm are not installed:**

- Go to the official Node.js website and download the installer from the following link:  
<https://nodejs.org/en>.
- Install Node.js, which will also install npm along with it.

#### - **Ensure the PATH is set correctly by performing the following steps:**

- Open the Control Panel and click on "System and Security."
- Click on "System" and then on "Advanced system settings."
- Click on "Environment Variables."
- Under "System variables," look for the variable "Path" and click on "Edit."
- Add the path to the folder where npm is installed (usually something like C:\Program Files\nodejs\).
- Click "OK" to save the changes and restart your computer.

### 2. **Download the server code:**

Git link: [https://github.com/adima1/Server\\_TripTips.git](https://github.com/adima1/Server_TripTips.git)

### 3. **Download the client code:**

Git link: [https://github.com/adima1/Client\\_TripTips.git](https://github.com/adima1/Client_TripTips.git)

### 4. **Start the server using the commands:**

- npm run start

### 5. **Start the client using the commands:**

- npm install
- npm run start

6. Click the link that leads to the registration screen after the site opens on the login screen.
7. Enter user details to register on the site. After a successful registration, you will be redirected to the login screen.
8. Enter the username and email that were registered in the system into the appropriate fields on the login screen.
9. Navigate to the home page after a successful login with valid credentials.
10. Click on the question mark icon in the navigation bar to go to the About page.

## Sprint 3:

### Team Members:

- Sivan Senvetu (207279845)
- Adi Malka (325258499)
- Adiel Sinvani (211935424)
- Tom Oz Asoulin (316387695)
- Alon Ben (207846049)
- Dor Biton (207994641)
- Nofar Duchan (322599424)

**Commit Number Client:** 16259db.

**Commit Number Server:** f2a1752.

**Project Link:** <https://client-triptips.onrender.com>

### What We Accomplished in This Sprint:

- Created a login page for our website from which users can click to log in, sign up, or enter as a guest.
- Adapted the login and sign-up conditions according to our requirements, ensuring that details are stored in the MongoDB database.
- Set up the homepage according to the specifications.
- Provided users with the option to upload a post to the site, which gets saved in the database.
- Enabled each user to have a personal profile that can be accessed.
- Added features for each uploaded post to allow for liking, saving, and sharing, as per our requirements, displaying all necessary details.

## Sprint 4:

### Team Members:

- Sivan Senvetu (207279845)
- Adi Malka (325258499)
- Adiel Sinvani (211935424)
- Tom Oz Asoulin (316387695)
- Alon Ben (207846049)
- Dor Biton (207994641)
- Nofar Duchan (322599424)

**Project Link (Render):** <https://client-triptips.onrender.com>

**Commit Client Number:** f8229c6

**Commit Server Number:** 7db75b1

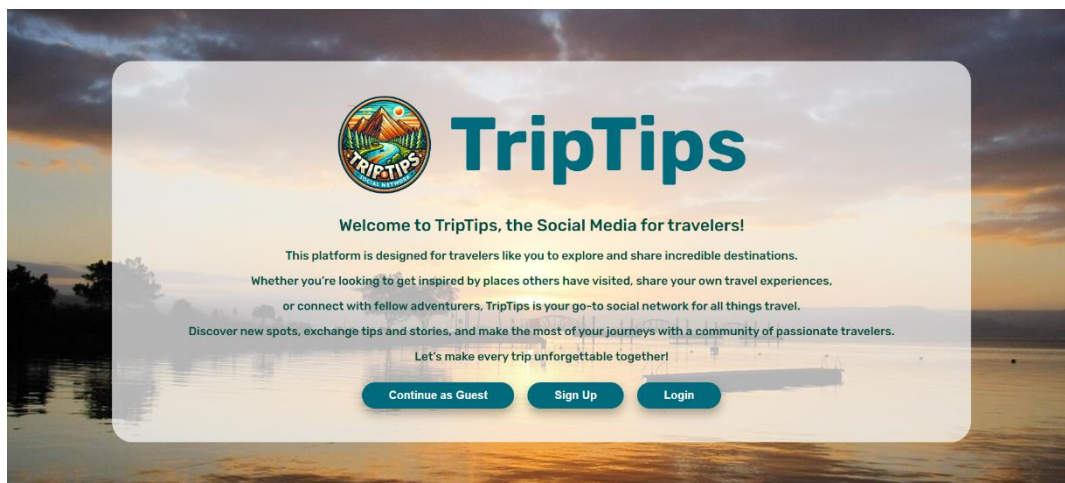
### What We Accomplished in This Sprint:

- We have enabled the option for users to update their details on the site, and the updated information will be saved in the database. This can be done from their personal profile.
- Additionally, we have provided users with the option to delete their account through the profile editing window.
- We have created a search page accessible to both logged-in users and guests, where users can search for other users or posts uploaded to the site. Logged-in users can perform actions such as liking, saving, sharing posts, accessing other users' profiles, and other functionalities through the search page. Guest users can only view posts and users on the site.
- We have also created a ratings page where users can view other users on the site according to their rankings (number of stars, which is the sum of the likes received on their posts, the saves on their posts, and the shares of their posts) and search for other users. Logged-in users can easily access other users' profiles and follow or unfollow them, while guests will need to log in or register to perform these actions.
- Additionally, we ensured that the site's design is user-friendly, making it easy and comfortable for users to navigate and use the site.



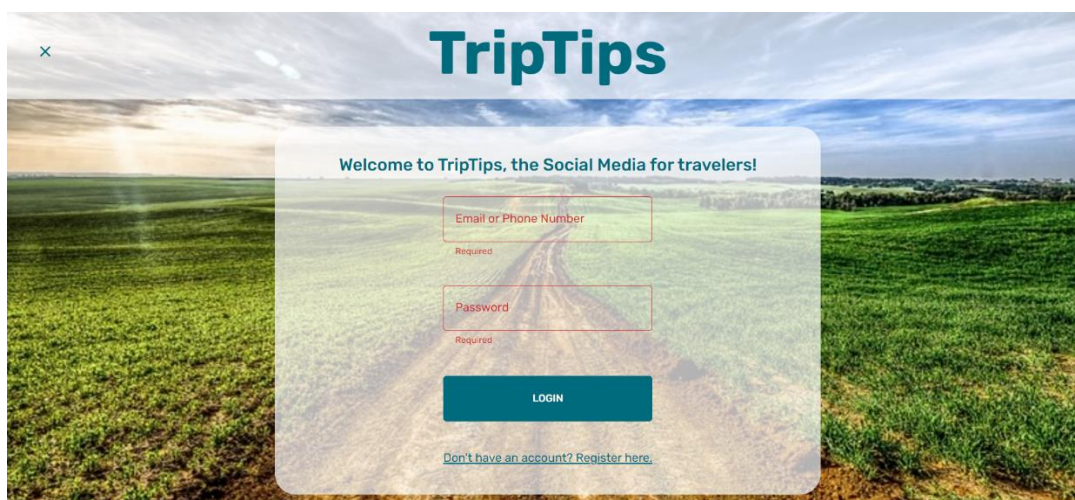
## Detailed User Guide:

Upon accessing the link, the user is presented with the following entry page:

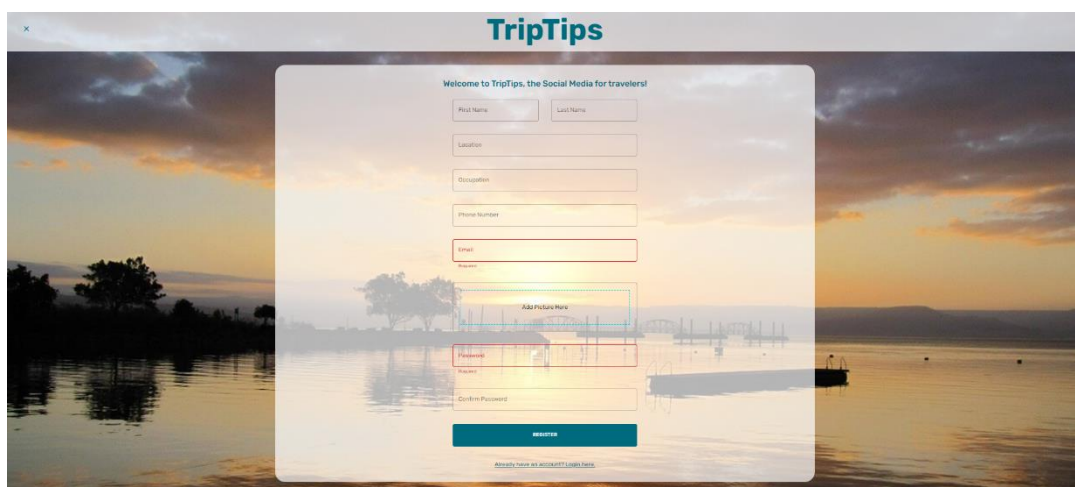


Users can log in if they already have an account, register as a new user, or enter as a guest.

## Login page:



## Registration:



If the user enters as a guest, they are redirected to the search page, where they can view posts uploaded by other users and search for posts and users on the site. However, they cannot perform any additional actions.



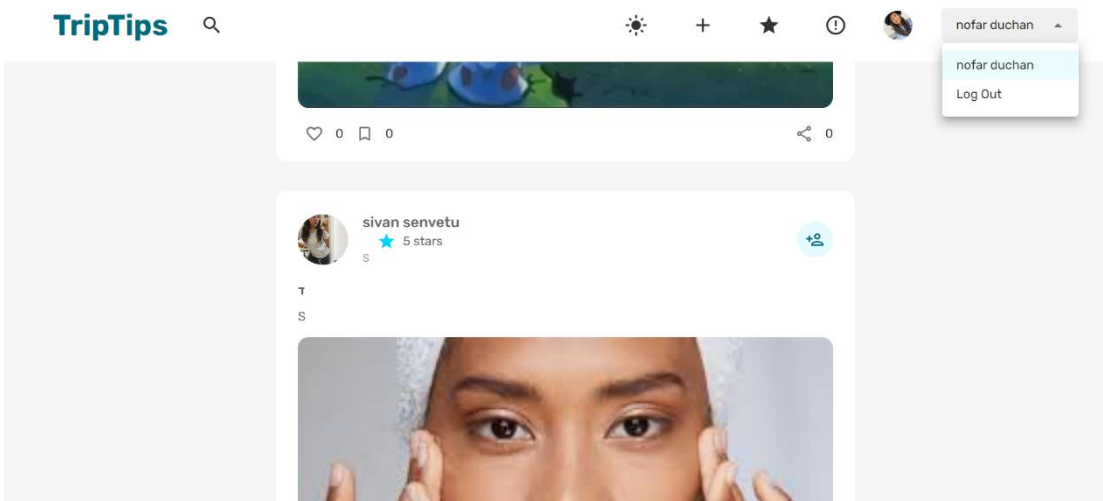
This is the guest user's toolbar:



A guest user can register and log in at any time and can also access the ratings page.

After logging in with an existing account, the user is redirected to the homepage, where posts from the users they follow are displayed.

### Homepage for Logged-in Users:



**Clicking the "TripTip" logo** – Navigates to the homepage if the user is logged in and to the login page if the user is a guest.

**Clicking on the profile picture** – Navigates to the user's personal profile.

**Clicking on the username** – Opens the option to log out of the site.

**Clicking on the "Exclamation Mark" icon** – Navigates to the About page.

**Clicking on the "Search" icon** – Navigates to the search page.

**Clicking on the "Star" icon** – Navigates to the ratings page.

**Clicking on the "Plus" icon** – Navigates to the post upload page.

**Clicking on the "Sun" / "Moon" icon** – Toggles between light and dark modes.

**Clicking on the "Person +" / "Person -" icon** – Follow or unfollow a user.

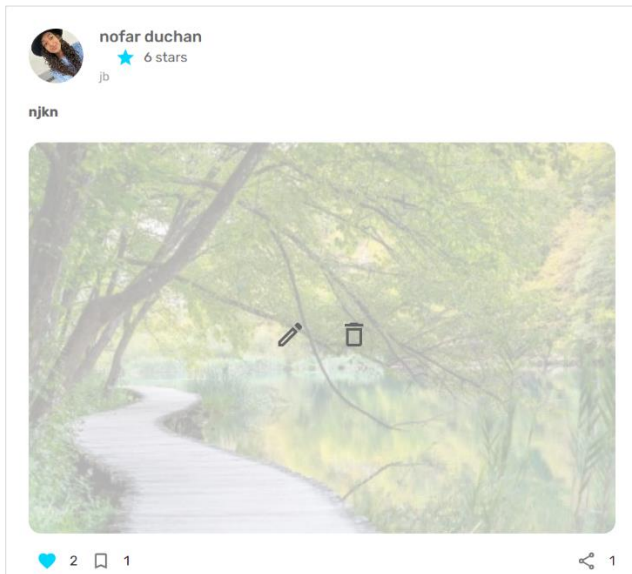
Post Upload Page:

After clicking the "Plus" icon in the toolbar, to complete the post upload, the user must enter inputs for the following fields: title, location (to categorize the area where the photo was taken), and upload an image. After clicking "POST," the image will be uploaded to the site with all the details, and the user will be redirected to the homepage.

Search Page:

The input field on the search page allows the user to search for posts and users on the site. The user can view all the posts uploaded to the site or filter posts by region: North, South, Center.

## Post of user:



**Clicking on the username** – Navigates to the user's profile.

**Clicking on the "Heart" icon** – Likes a post.

**Clicking on the "Save" icon** – Saves a post to the personal profile.

**Clicking on the "Share" icon** – Shares a post on the personal profile.

Hovering over an image that I uploaded opens the following options:

**Clicking on the "Trash" icon** – Deletes the image from the site.

**Clicking on the "Pencil" icon** – Opens the post editing window.

## Post Editing Window:

Edit Post

Title

Description

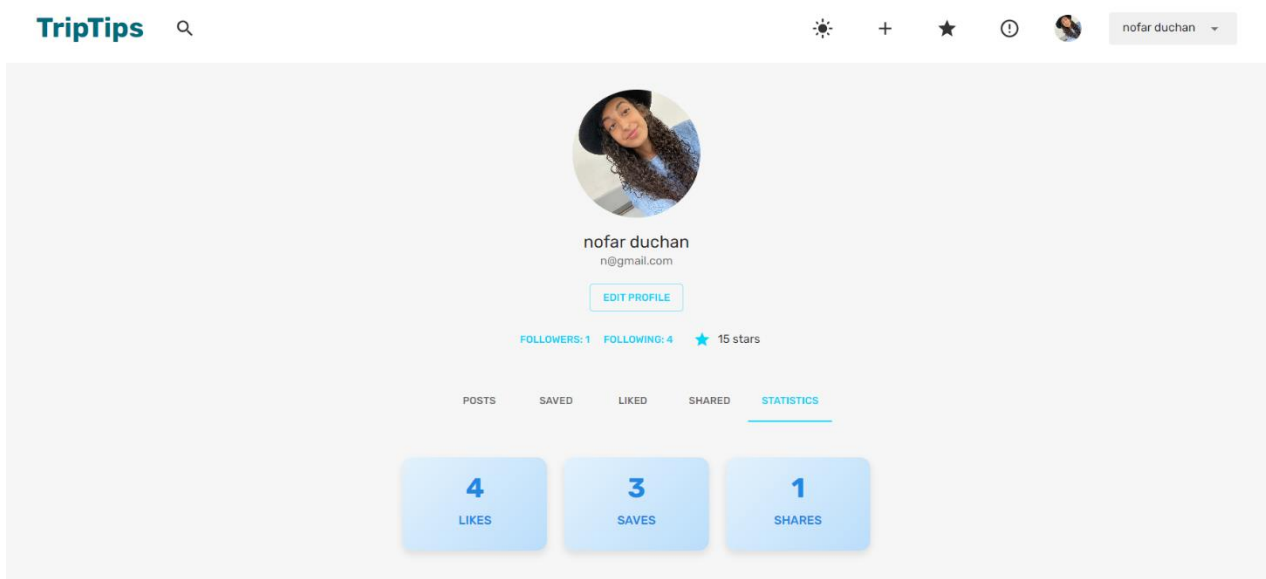
Location

SAVE
CANCEL

**Clicking "cancel"** – Closes the window without making changes to the post.

**Clicking "save"** – Saves the changes to the post.

## Profile Page of a Logged-in User:



The user can see their profile picture, username, and the number of ratings they have accumulated. Number of ratings = the sum of the number of likes received, the number of saves on their posts, and the number of shares of the posts they uploaded.

**Clicking "following"** – Opens a window showing the users I follow.

**Clicking "followers"** – Opens a window showing the users following me.

**Clicking "POSTS"** – Displays the posts the user uploaded.

**Clicking "SAVED"** – Displays the posts the user saved.

**Clicking "LIKED"** – Displays the posts the user liked.

**Clicking "SHARED"** – Displays the posts the user shared.

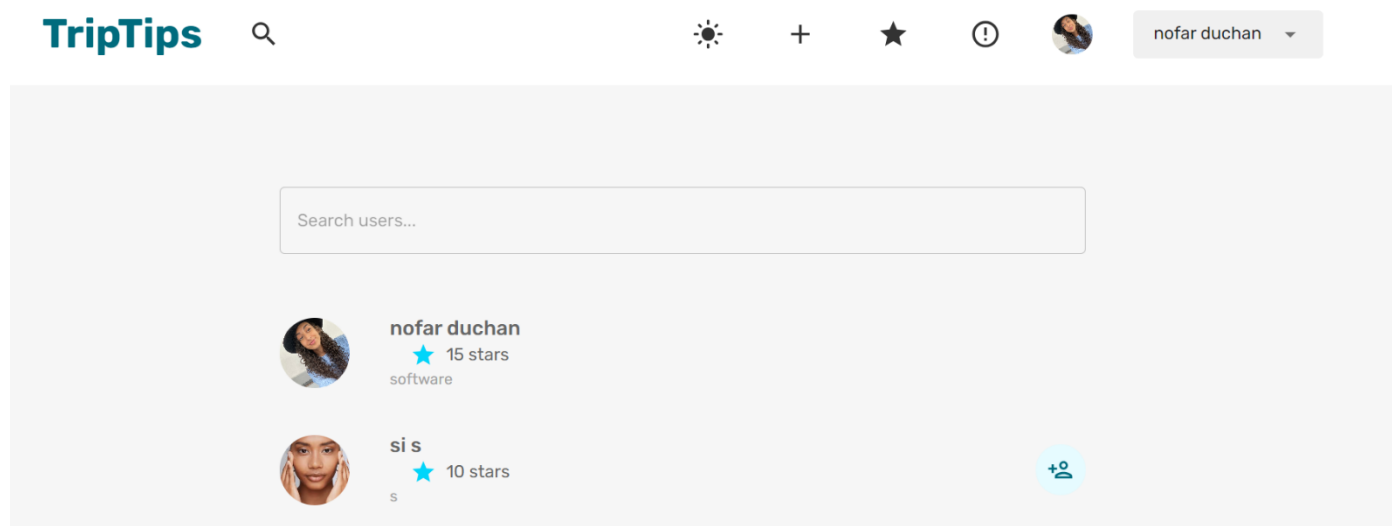
**Clicking "STATISTICS"** – Displays the user's statistics (the number of likes received on all their posts, the number of saves on their posts, and the number of shares of their posts).

**Clicking "EDIT PROFILE"** – Opens a window to edit my personal details.

**Clicking "Delete account"** – Deletes my personal account from the site along with all the posts I uploaded.

**Clicking "SAVE CHANGES"** – Saves the changes to the user's details.

**Clicking the X icon** – Closes the window without saving changes.

Ratings Page:

After clicking the "Star" icon, the user is redirected to the ratings page, where they can search for users and view the existing users on the site according to their ratings.

The user with the highest rating – the highest number of stars – will be at the top of the page.

Clicking on the username displayed on this page navigates to their personal profile.

**Clicking on the "Person +" / "Person -" icon** – Follow or unfollow a user.

Guest users cannot navigate to the profiles of other users.