BILBOARD

Team-T4 BugBunny

User-Manual

DILARA MANDIRACI

BURAK DEMIREL

YUSUF TORAMAN

SILA ÖZEL

EREN HAYRETTIN ARIM

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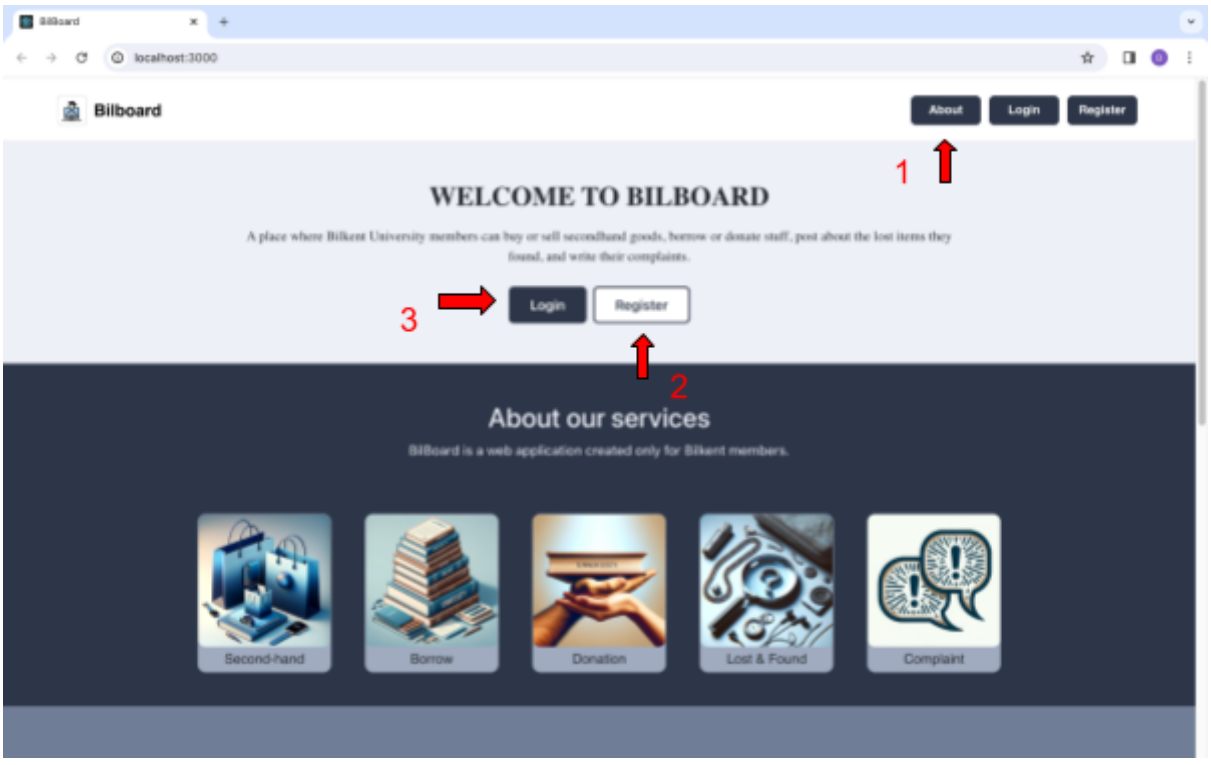
Introduction to BilBoard

A place where Bilkent University members can buy or sell secondhand goods, borrow or donate stuff, post about the lost items they found, and write their complaints.

This application was made especially for solving a couple of similar problems. As you might have noticed, there is no official media for Bilkent students to exchange stuff or write their complaints. Students use other social media platforms for these purposes. With BilBoard, we created a secure place for those exchanges and added a complaint system so the students' complaints could be heard. We believe BilBoard will benefit most of the Bilkent members.

Landing Page



Hello 🙂 ! Welcome to the **Bilboard**. When you first open the application you will be welcomed to our **Landing Page.** Landing page is designed to restrict the access to the inner items in the modules without login. This is especially crucial for us because this application is designed for only Bilkent University members, so we don’t want others who come to the

application to see the products, lost and found entries and the complaints. However we want to give a brief description for our new members and the people who visit our website even if they are not Bilkent members.

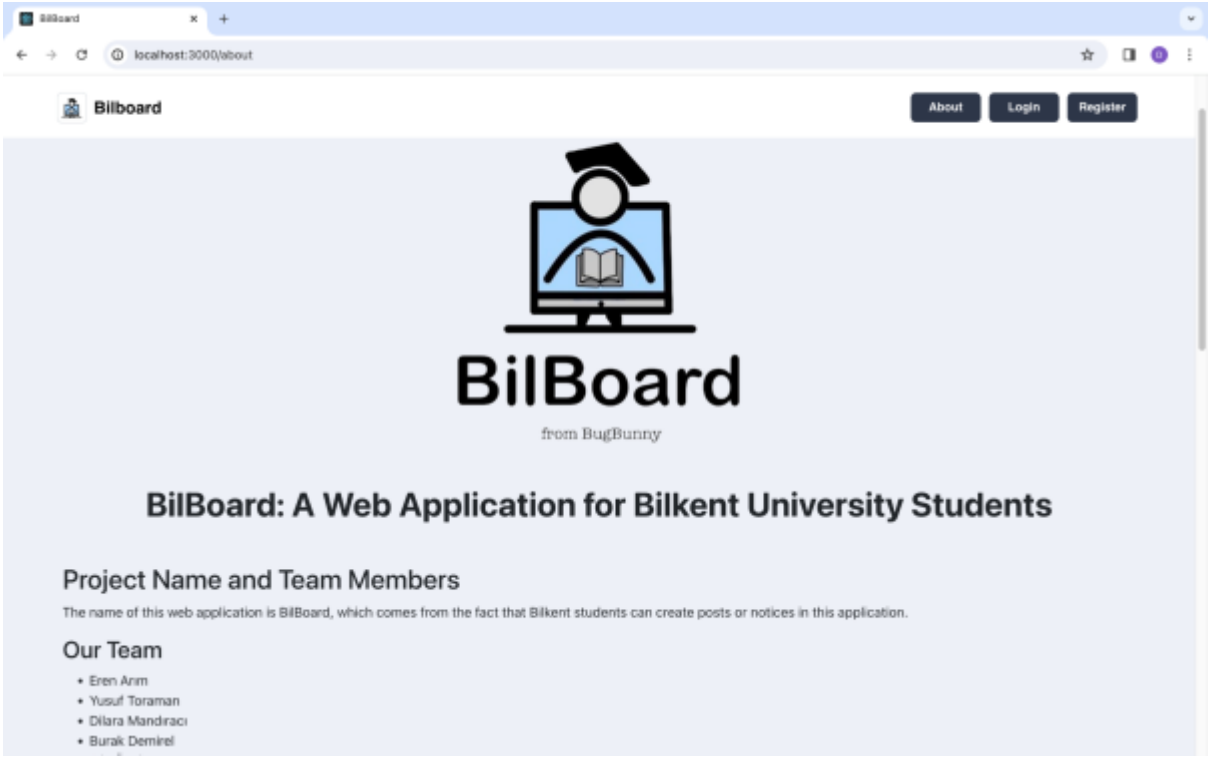
On our landing page you can scroll down and read a brief summary of our application and can see our team members. By clicking the icons of the team members will direct you to their LinkedIn pages.

By clicking the **About Page** (shown with the 1st arrow) you can see a more detailed explanation about our application and the names of the team members.

By clicking the register button (shown with the 2nd arrow) you will be navigated to our **Register page**, where you can create your unique account if you have a valid Bilkent extension email address.

Lastly you can navigate yourself to the **Login page** (by clicking the button shown with the 3rd arrow), if you already have an account on our application.

About Page

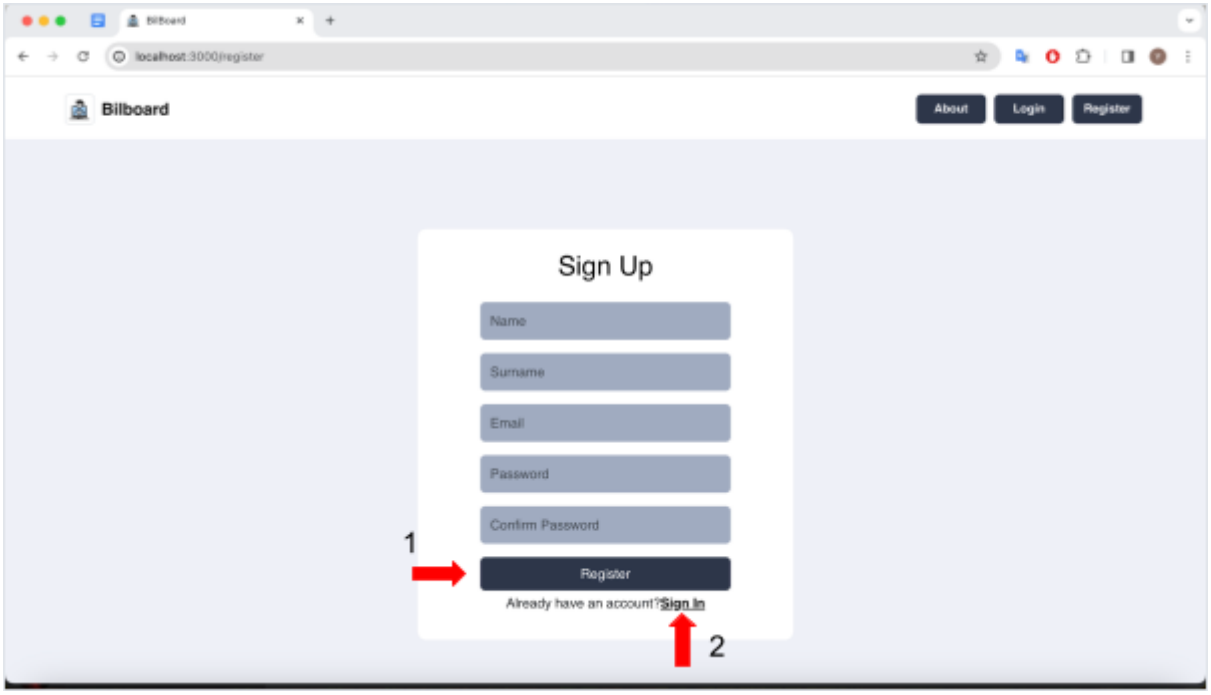


Here you can scroll down to read more about us ! 🙂

Register Page

To register our application, you can fill out the form and create your unique account on our application. For safety purposes, a user can have only one account with one email, and since Bilkent generally provides only 1 unique email to the members (e.g., undergraduate students only can have one), every user will have only one and unique account.

The fields required for the user to register are specified on the registration page of the application. These fields are Name, Surname, Email (Bilkent-mail), and password fields. The profile photo is not added in this field because it is intended to be a simple field, and the default photo is assigned when the account is created. Then, the user can change his profile photo as he wishes from the profile section.



After the required fields are entered, when the Register button shown with the red arrow number 1 is pressed, a verification link is sent to the Bilkent email specified by the user in the Email field. When you log in to the e-mail and click on this link, the user's account is automatically verified, and the user can proceed to the login stage.

Welcome to Bilboard!

From bilboardcs@gmail.com on 2023-12-17 01:32

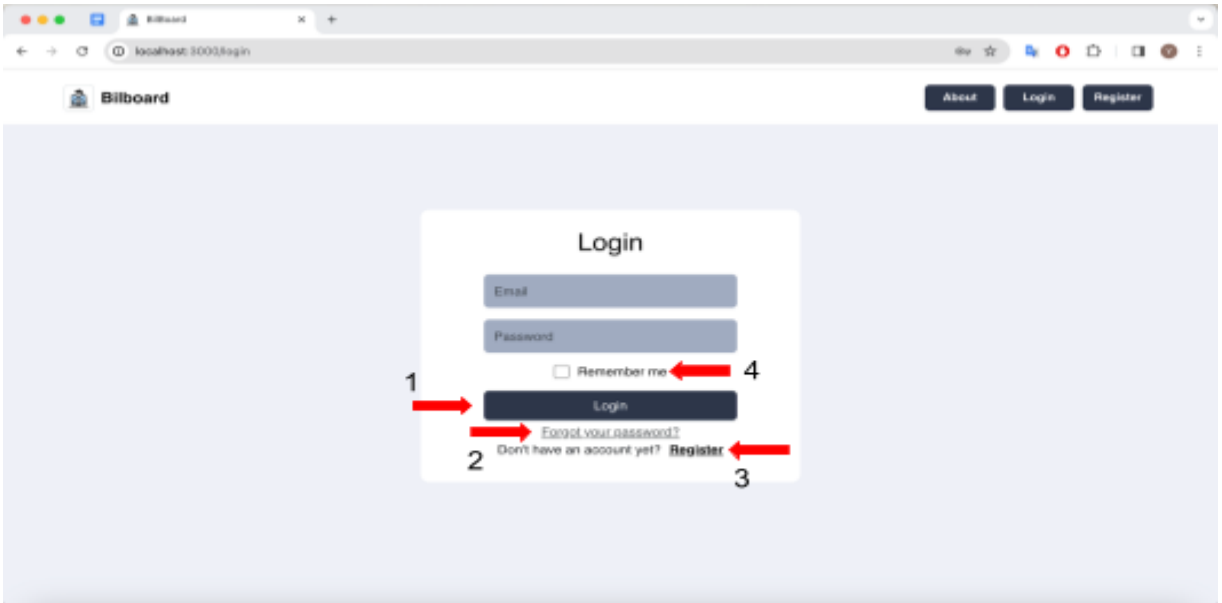
Details

```
Hi Yusuf,

Please click on the link below to verify your email address:

http://127.0.0.1:3000/login/?
token=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyX2lkIjoyLCJlbWFpbCI6Inl1c3VmLnRvcmf
VuSkLjOj8voTR14WNdBMtweXzXVnR6A5ICCj8

Best regards,
Bilboard team
```

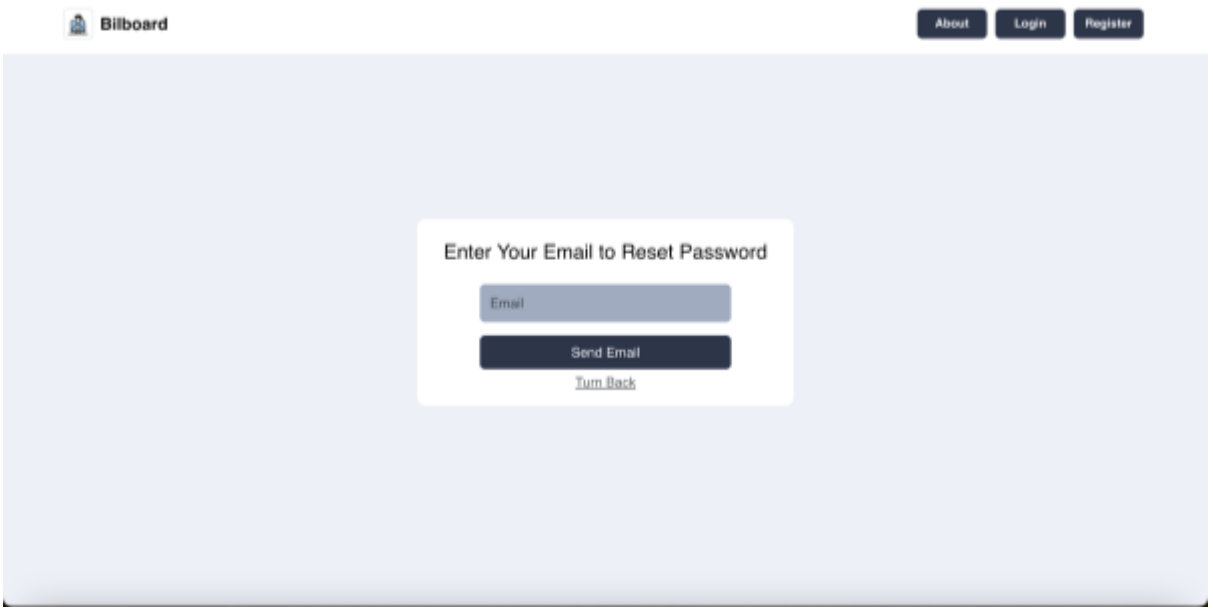
However, if incomplete information is entered and the Register button is pressed, a warning appears stating that the blank fields must be filled. Finally, 'Already have an account!', shown with the red arrow number 2. When the 'Sign In' button is clicked, it automatically sends the user to the login page because it assumes that he/she has a previously created account.

Login Page

BilBoard's login page is designed in a simple and user-friendly way. You are asked for the email field that is unique to each user and the password that the user chooses when registering. When this information is entered correctly, the user is sent to the main page of BilBoard. If missing or incorrect information is entered, an error message is returned in a way that the user can understand.



When the user clicks on the Login button, indicated by the red arrow number 1, with the email and password he registered with, the user is now in the BilBoard app.
Welcome Aboard! ✈️
If the Remember me box shown with number 4 is filled in while logging in, the user will be remembered by BilBoard in his/her other logins and the necessary fields will be filled in.
The arrow shown in red at number 3 sends the user to the Register page, which enables the user to register if he or she does not have an account, when the Register section is clicked.
Last but not least, when the user clicks on Forgot your Password, shown at number 2, the user is sent to a new page. On this page, the user's previously registered email address is asked. A photo of this page can be seen below.



When the user enters the Bilkent email he/she has previously registered with in this field, a password change link is sent to his/her email and this link expires after an hour of inactivity. If the user changes his password via this link before the expiry period, the user can continue to use our site with his/her new password.

Your forget password link

From bilboardcs@gmail.com on 2023-12-17 13:23

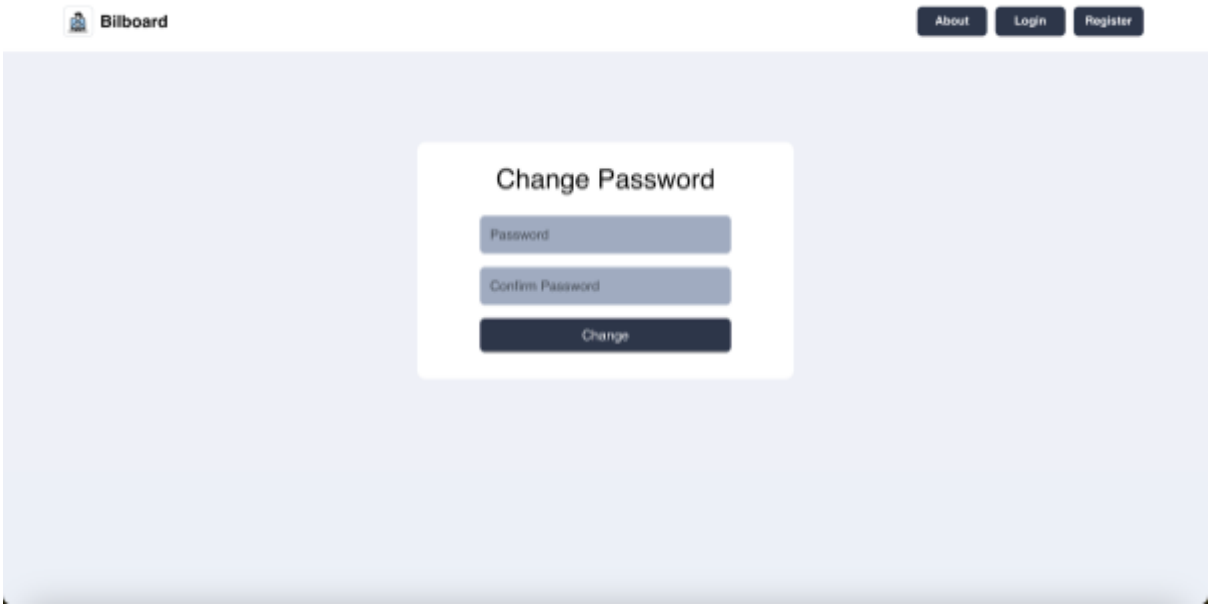
Details

Hi Yusuf,

Click on the link to reset your password:
http://127.0.0.1:3000/change_password/?
token=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyX2lkIjoyLCJleHAiOjE3MD
0wBQ88Z0Ye5Agt5F9SibXxagbsUYDFlE

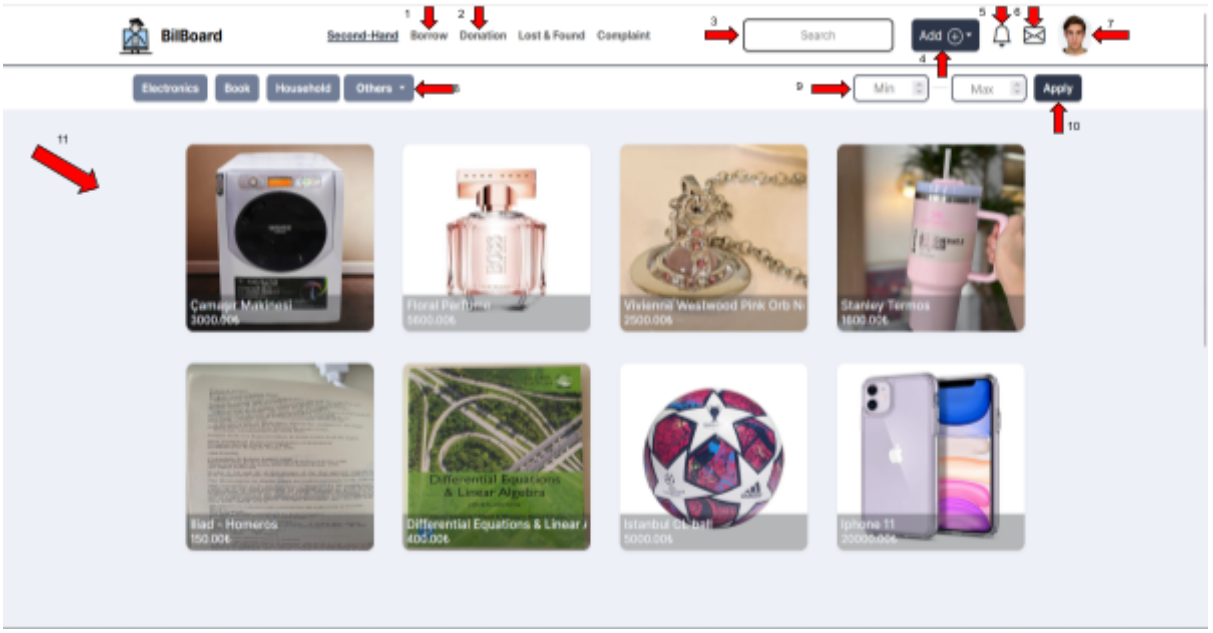
Best regards,
Bilboard team

After clicking the link, the user is navigated to the below page and can change password.



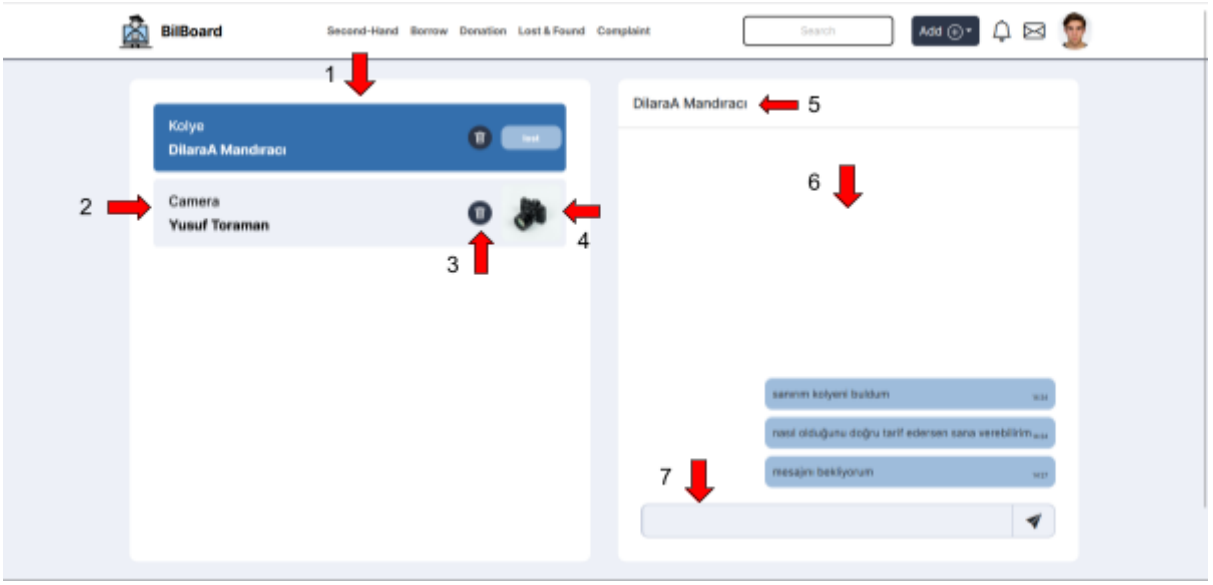
After entering the new password and confirmation of the new password in this field, the user will automatically navigate to the login page.

Secondhand - Borrow - Donation Sections



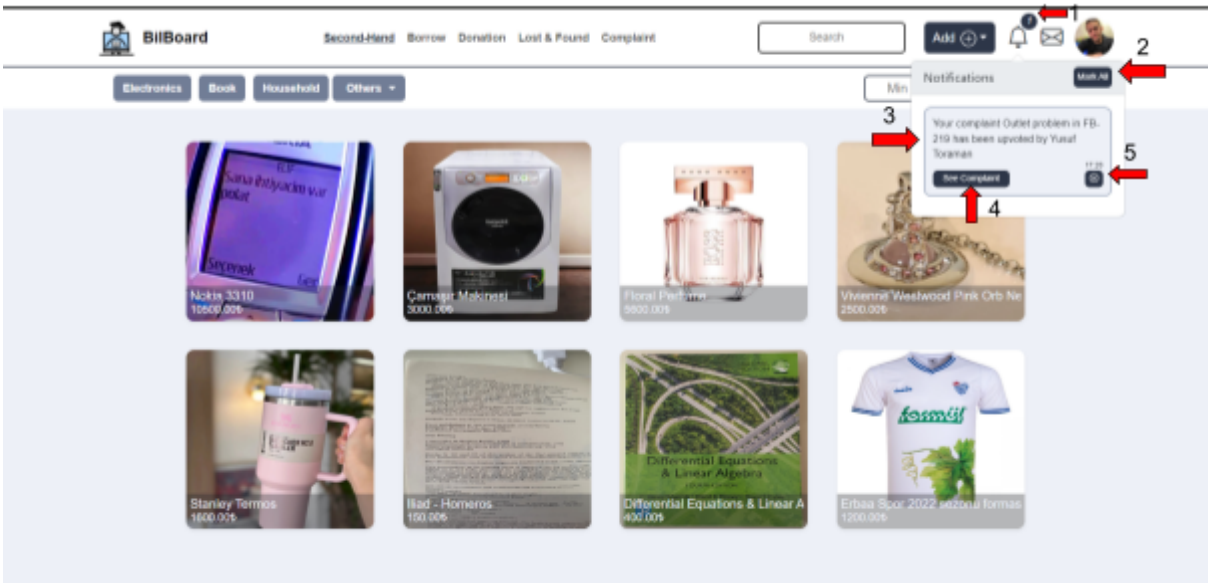
This page is the first page you see after logging in. There is a navigation bar above. You can switch between sections from here. The design for the pages on Borrow (arrow 1) and Donation (arrow 2) is the same as on this page. A search button is at the top right (arrow 3) to search for the product you want. There is an add button (arrow 4) next to it. You can add the product of your choice, lost and found entry, or complaint to the application. When you click on the icon with the arrow number 5, notifications will be visible. Next to it, there are buttons you can use to go to the message page (arrow 6) and the profile (arrow 7), respectively. There is an area under the navigation bar to filter products. In this area, you can select the category of the product on the left (arrow 8) and the minimum and maximum price of the product on the right (arrow 9). Finally, when you press the apply button (arrow 10), the filters you want will be applied. Under this bar, there is an area where all products are listed (arrow 11). In this area, all products will be listed according to your search, the filter you selected, or all products.

Messaging Page



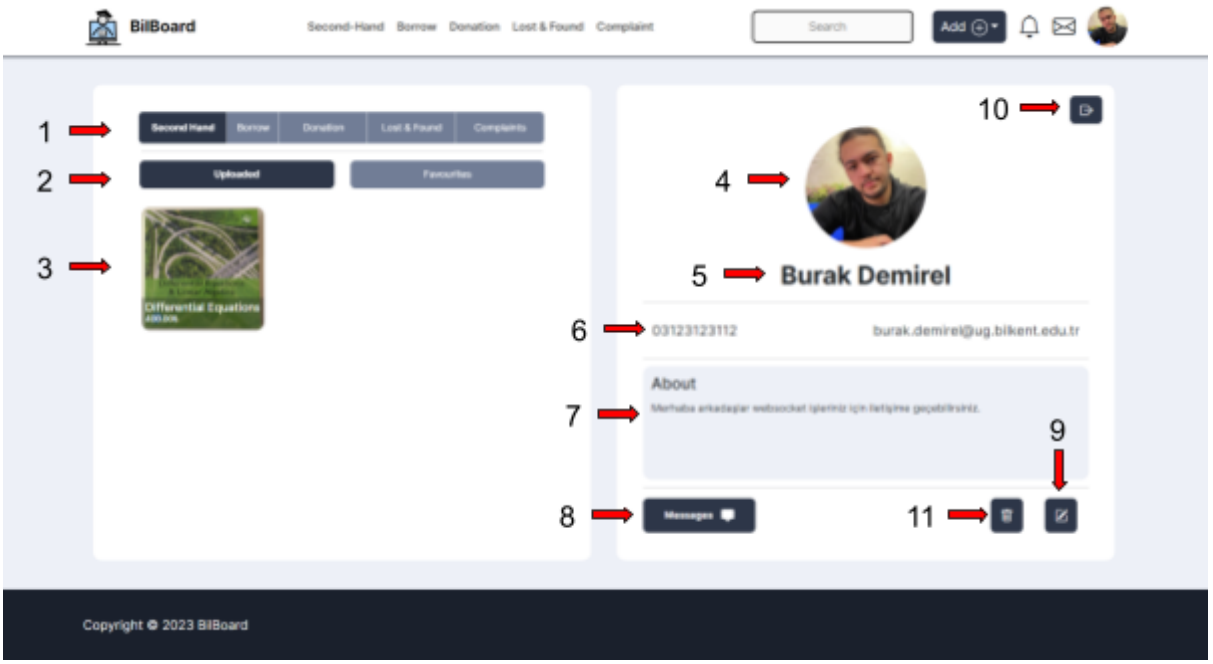
This page is the messaging page. On the left (arrow 1), you can see a list of messages from which user for which item. Each element (arrow 2) contains the message sender's name and the item's title on the left. On the right side, there is the button to delete messages (arrow 3) and the photo or tag of the item (arrow 4). When printed on photos and tags, it directs you to the page where the product is located. At the top on the right side is the name of the person you are messaging with (arrow 5). Clicking on it will take you to that person's profile. In the middle there are messages sent back and forth (arrow 6). At the bottom is an area (arrow 7) where you can send messages.

Notifications



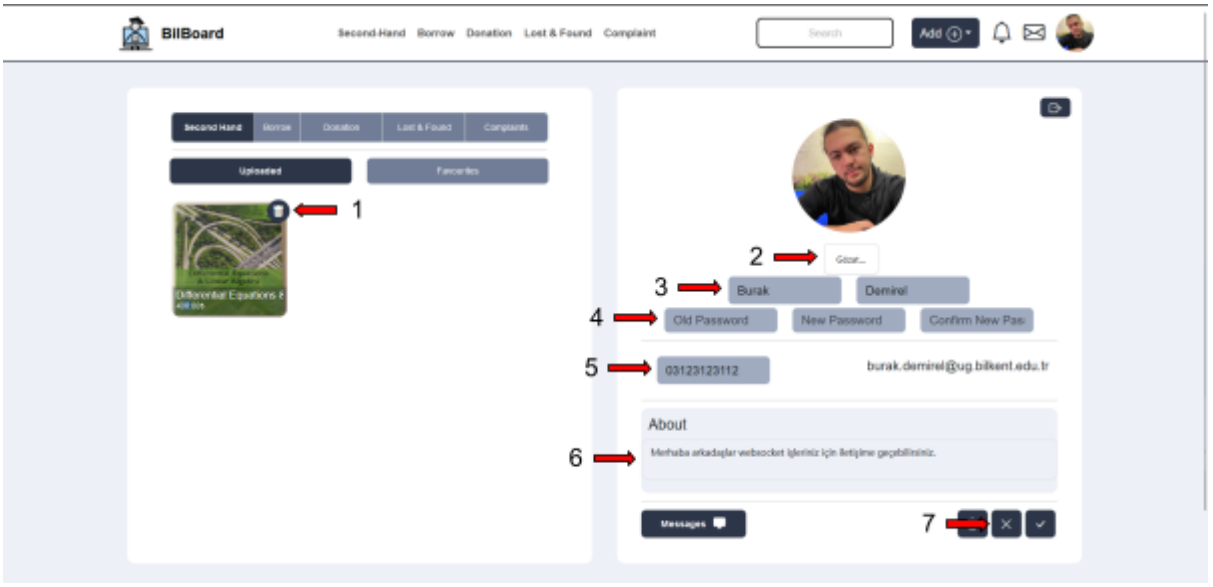
This section is the section that opens when the notification icon is clicked. At the top right of the icon (arrow 1) it is shown how many undeleted notifications you have. Next to the Notification heading, there is a button (arrow 2) to delete all notifications. Each notification (arrow 3) is listed below the title. It contains the content of the notification and the time it was sent. When the "See Complaint" or "See Message" buttons (arrow 4) are pressed, it takes you to the complaint or message page depending on its type. When the delete button (arrow 5) is pressed, specifically that notification and all notifications related to that complaint or message are deleted.

My Profile Page



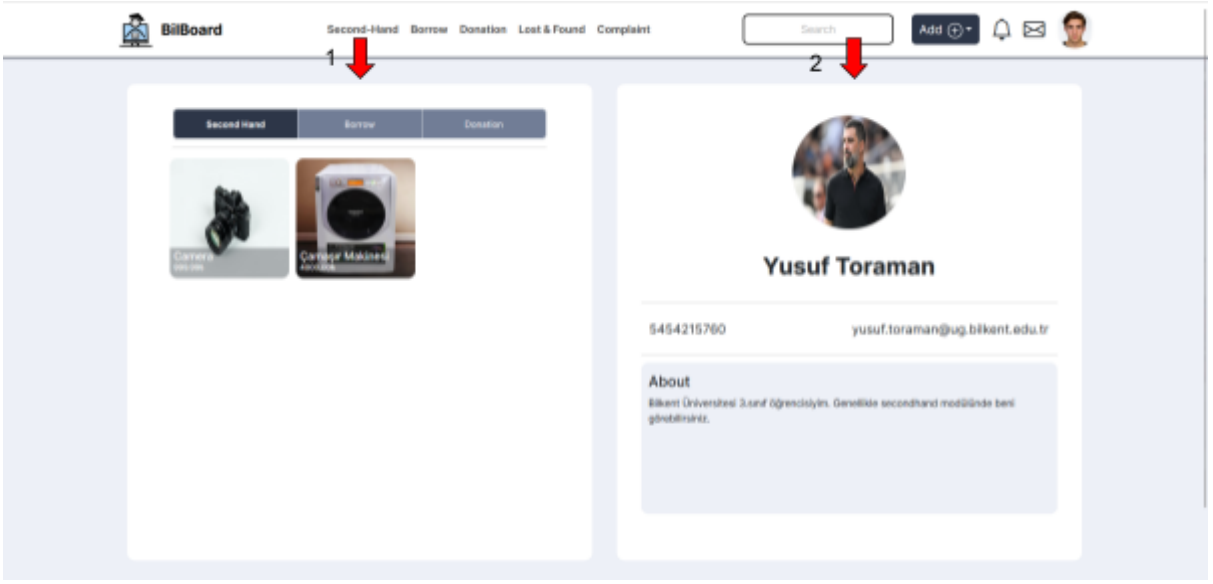
This page is the page where a user wants to see their profile. Users can search its publications by switching the fields denoted by arrow 1, arrow 2, and arrow 3. Arrow 1 is the tab for swapping between the main sections of the applications. Arrow 2 is the tab that stands for choosing either uploaded or favorite products. For complaints, it changes as uploaded and voted. On the right-hand side of the page, the main information of users is listed. Profile image, name-surname, phone number-mail, and about is printed. Arrows 4, 5, 6, and 7 show them respectively. Users can navigate to their messages by clicking the button shown by arrow 8. Fields shown by arrows 4, 5, 6, and 7 can be changed by clicking the button shown by arrow 9. Users can logout from their account by clicking the button shown by arrow 10 and they can also delete their account permanently by clicking the delete button shown by arrow 11.

My Profile Edit



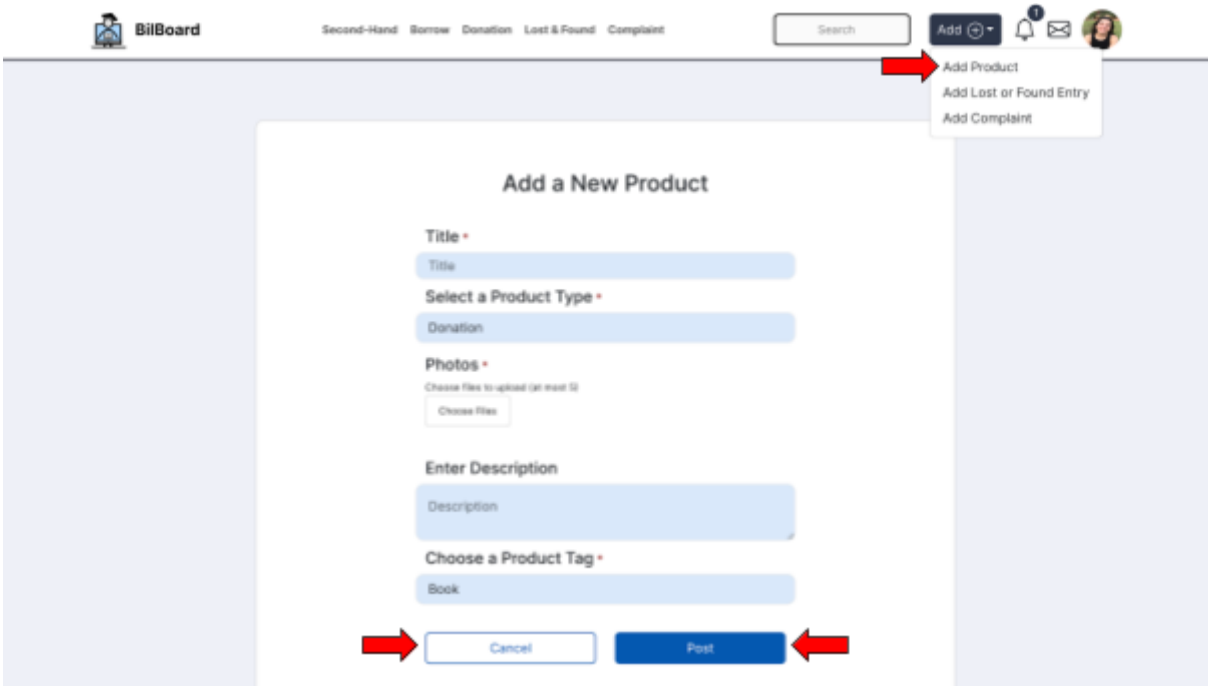
Users can delete their products from this page. They can alter their information by changing fields shown by arrows 2, 3, 4, 5, and 6. Finally, they can submit or discard the changes by clicking the cross or check button shown by arrow 7.

User Profile Page



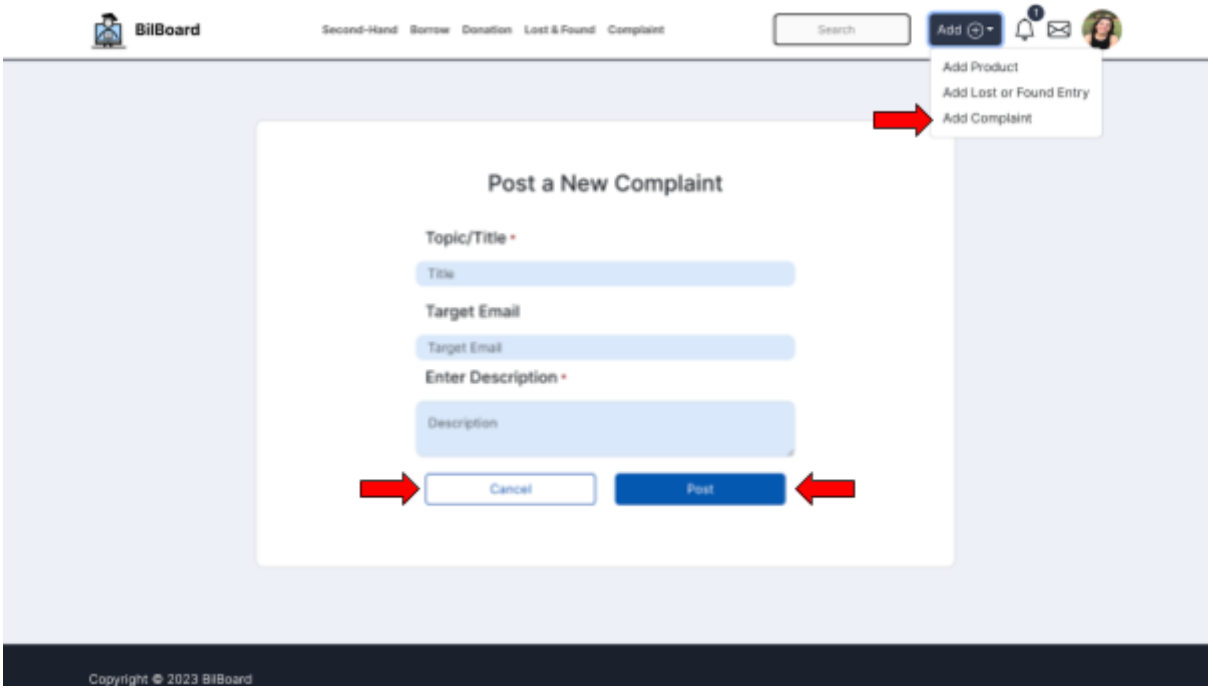
This page is the page you see when you want to view the profile of a different user. On the left (arrow 1) the products published by the user in all secondhand borrow and donation categories are shown. On the left (arrow 2) there is the user's name, picture, phone number, e-mail and information about the user.

Product Addition Form



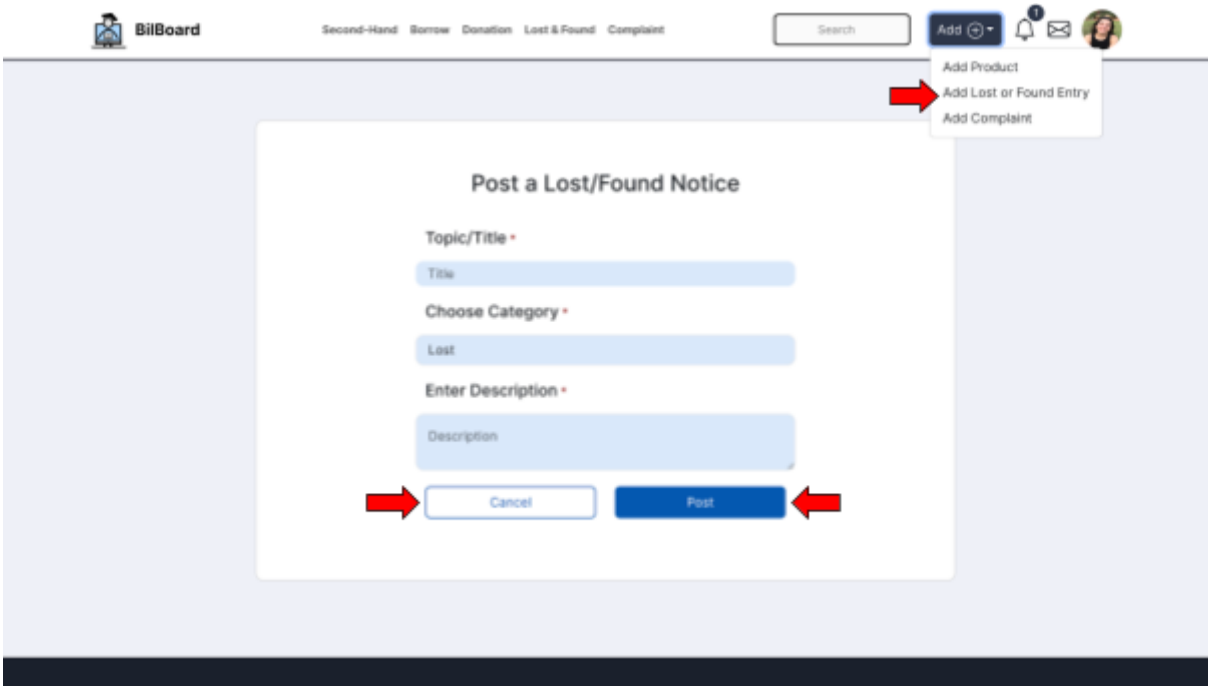
To add a new product to our system, first press the Add button on the navigation bar, and a drop-down menu will appear. Choose Add Product and navigate to the form. In this form, enter the required values. The required values are indicated with a * symbol. Also, we use image checking that will prevent you from entering inappropriate images. After you are done press the Post button to post your product. If you decide not to post, press the cancel button.

Complaint Form



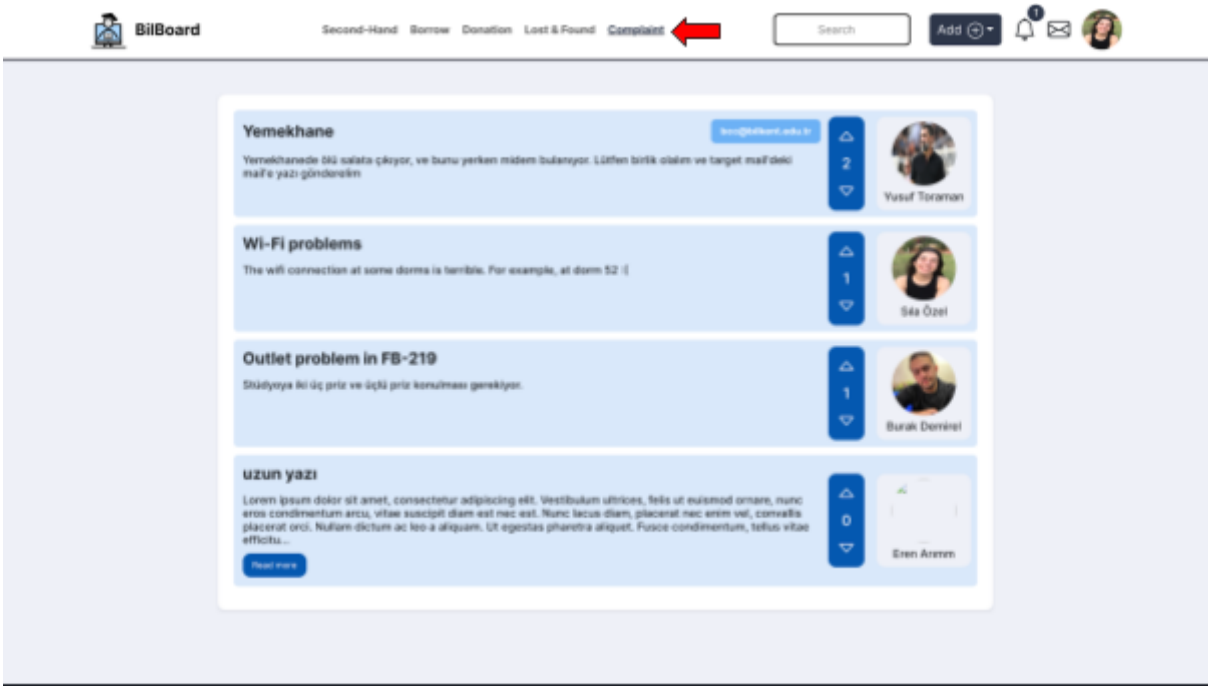
If you have a complaint that you want to post, you can again navigate to the complaint form by pressing the add button on the navigation bar and choosing Add Complaint, which will navigate you to the form. Here, enter the required values for your complaint. If you know a specific person to reach out to and want other people to reach out to them too, then you can specify the target mail. When you are done, press the Post button. If you decide not to post, then press the Cancel button.

Lost & Found Form



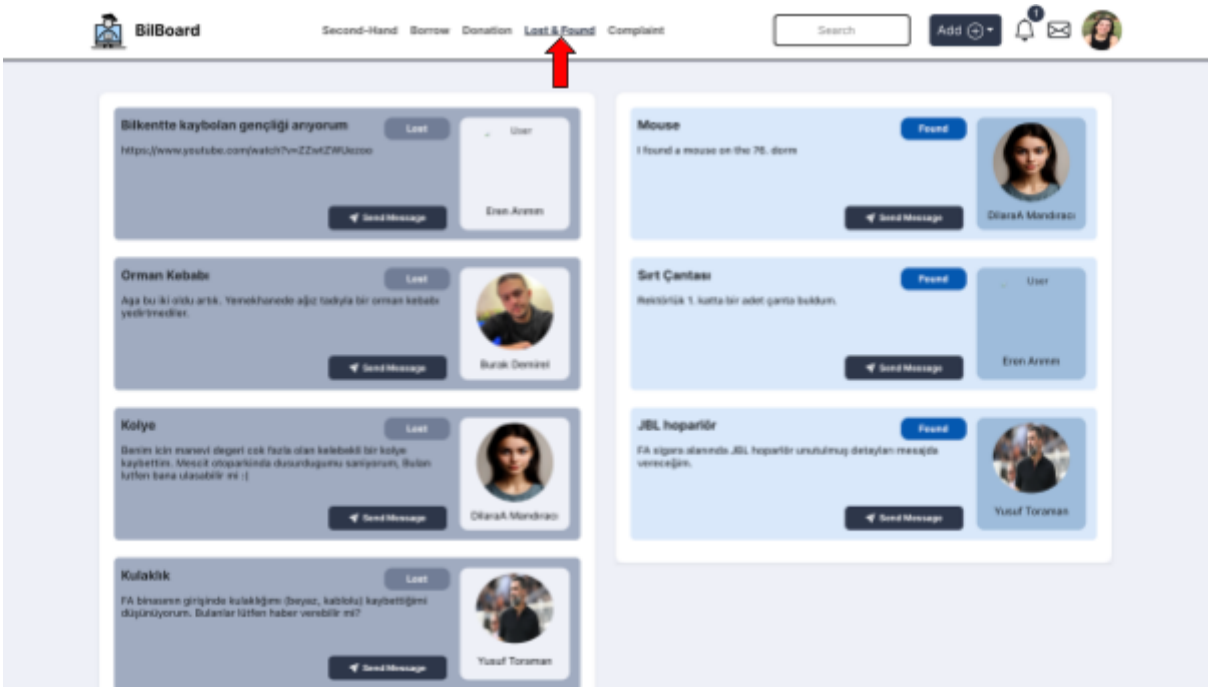
If you have lost or found something, you can create ads or notices about those items. To do so again, press the Add button on the navigation bar and choose Add Lost or Found Entry, which will navigate you to the form. Here, enter the necessary input, and when you are done, press the Post button. If you decide not to post, press the Cancel button.

Complaints Page



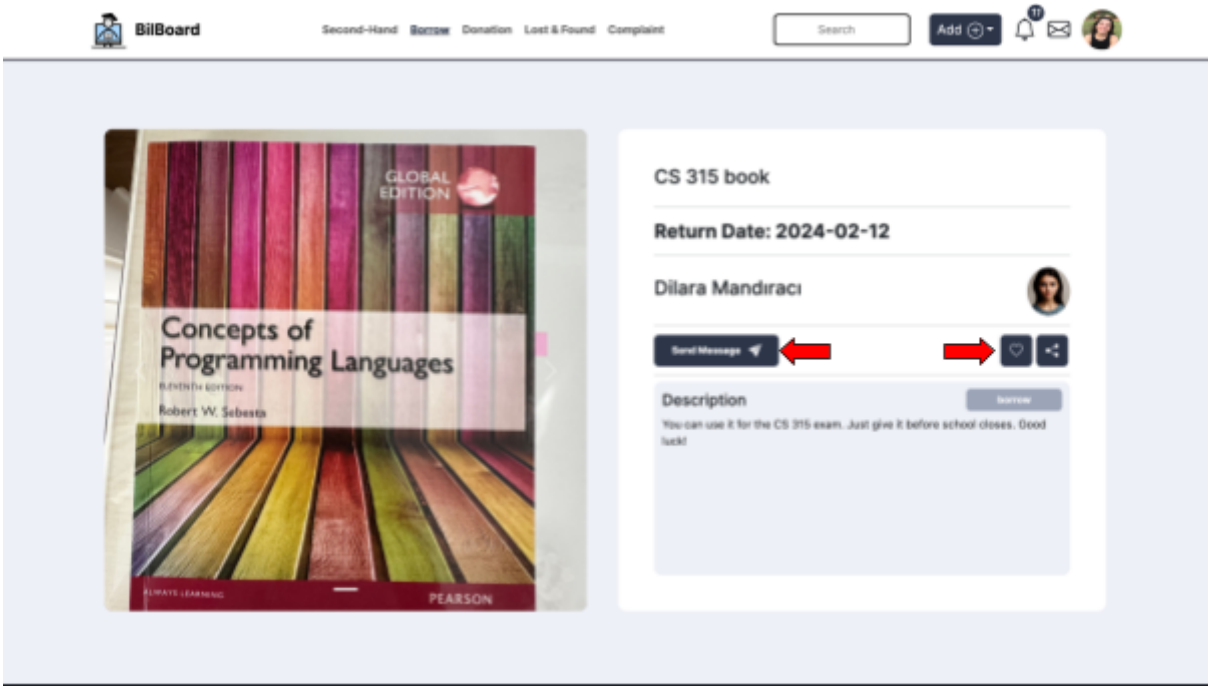
To see all the complaints, press the Complaints link on the navigation bar and navigate to the Complaints page. Here, you will see other people's complaints. The complaints are sorted in increasing order, and if you agree with the complaint you can upvote that complaint so that it will be seen more closely to the top. If you disagree with the complaint, you can downvote it so that the complaint will move towards the bottom.

Lost & Found Page

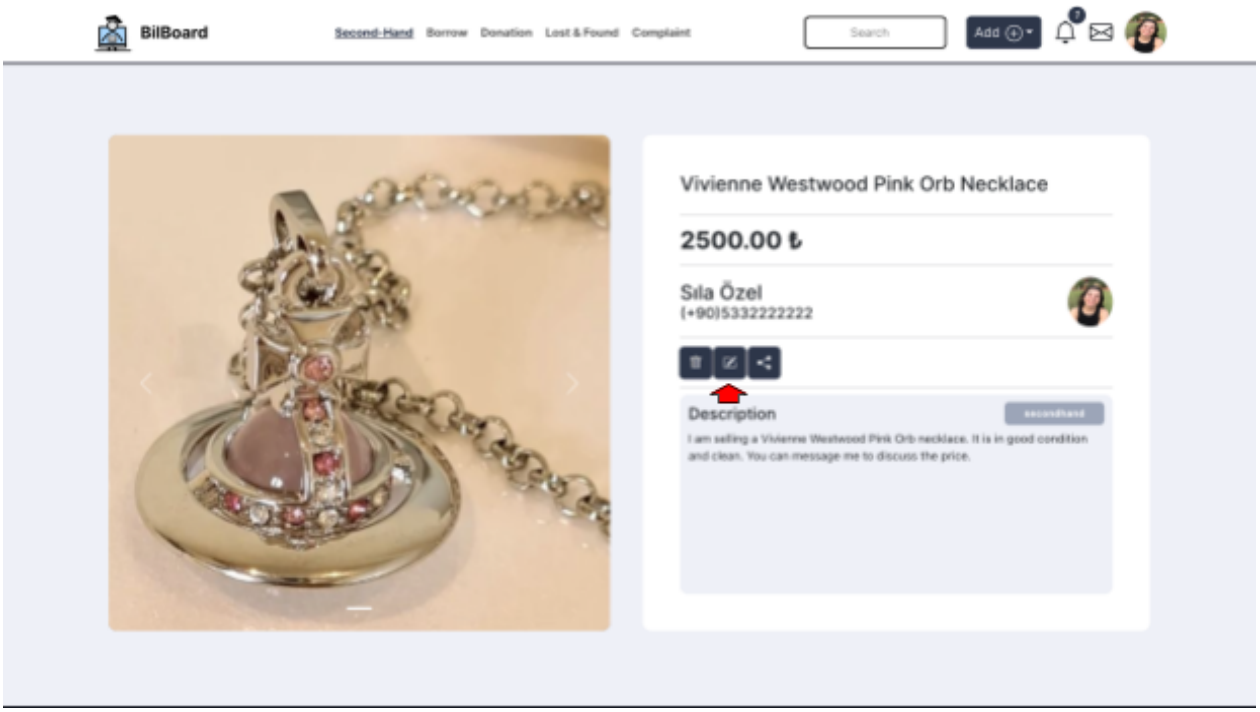


You can see all the lost or found notices on the lost and found page. To navigate to that page, click the Lost & Found link on the navigation bar. The lost notices are listed on the left page, and the found notices are listed on the right of the page. You can send messages to the user who has sent the notice and talk about the item in more detail.

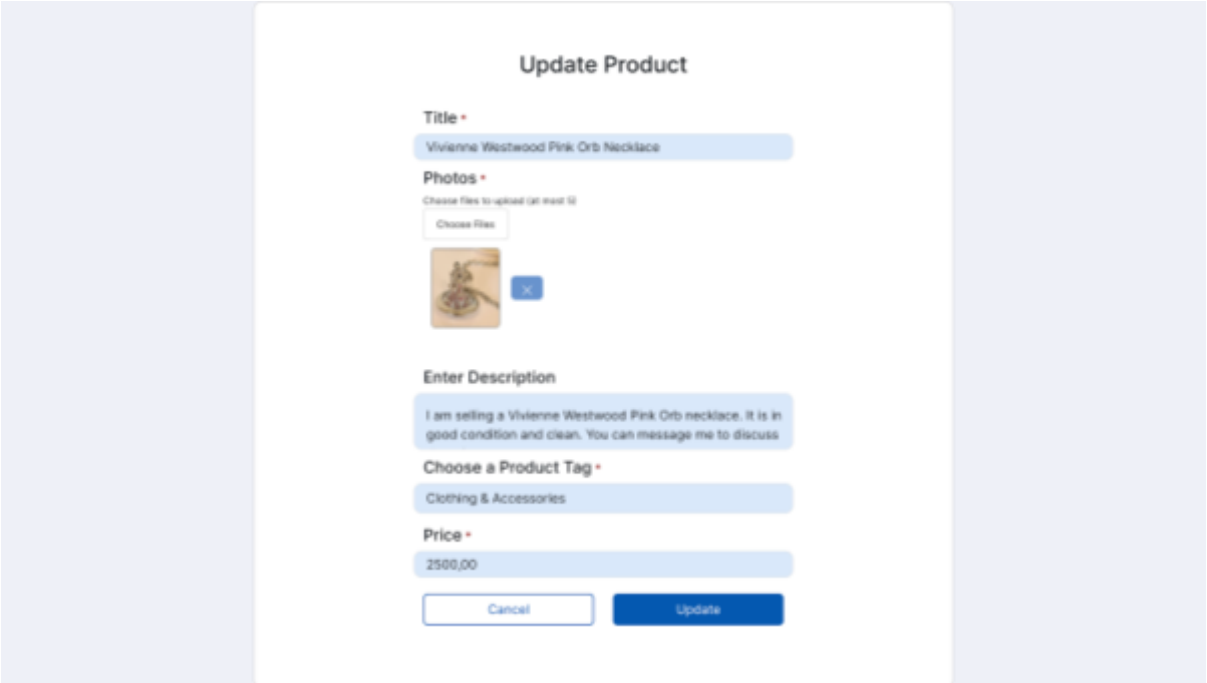
Product Details Page and Updating a Product



You can see the details of the products when you click on the product. You can see the details, and also, if you want to contact the owner about the product, you can click on the send message button. If you like this product, you can add it to your favorites by clicking on the heart button. Also, you can share the product by clicking on the share button next to the heart button.



By pressing on the product, you will be directed to the product detail page. If the product has been sent by you, you can update the product by clicking on the button indicated with the red arrow in the image above. By clicking on that button, you will be navigated to the update product form.



In the Update Product Form, you can do your updates. You cannot change the product type, though. You can add or remove images. If you are done with your updates, click on the Update button to save your changes. If you change your mind and decide not to update, you can click on the Cancel button to discard the changes.

How to Run The Application

BilBoard web application uses Redis. In order to run Redis on MacOS, you should install Redis (either using Homebrew or MacPorts) and start the Redis by running the `redis-server` command on the terminal. For Linux, run the following command to install the Redis: `sudo apt-get install redis`

Windows users can download Windows Subsystem Linux (WSL) which is an official Microsoft system to use Linux terminal. WSL installing instructions can be acquired through https://learn.microsoft.com/en-us/windows/wsl/install.

This application uses a separate backend and frontend. To build the application, first install the source code and dump it into a folder.

BilBoard uses Django at its backend. This means that Python needs to be installed on the machine. Instructions can be found at https://www.python.org/downloads/. In order to use Python via terminal, add Python to the path.

After installing Python, you are advised to create a virtual environment. Open a terminal, then run the following code to build a virtual environment: `python3 -m venv env`

This command will create a folder named env. Then, navigate to the env/bin folder. Activate the virtual environment by using

```
source env/bin/activate
```

Navigate back to the root directory and navigate to the backend folder. First, run the command

```
python3 -m pip install --upgrade pip
```

to upgrade Python's package install manager. Then, install the requirements of the project using

```
python3 -m pip install -r requirements.txt
```

All requirements for the backend are fulfilled. Use the following command to run the server.

```
python3 manage.py runserver
```

Now backend runs at

To build the front end of this application, first, you have to install Node.js and npm. You can install the latest version from the Node website: https://nodejs.org/en. After installing Node, navigate to the frontend folder by running the 'cd frontend' command in the terminal. After navigating to the frontend folder, run 'npm install' to install all dependencies. After the installations are done, run 'npm start' to start the frontend server. You can access the site at 'http://localhost:3000'.