# User Manual and Project Demonstration

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User Manual:

When the system is started, the home page will be the first thing you see. On the Home Page, we explained what we did and the benefits of the system, and also showed the latest prices and increase and decrease rates of currencies such as dollar and euro. When a company name (not the full name, companies have their own abbreviations, for example MİATK) is searched in the search area on our Financial Statement page, the name of the company appears in the list section on the screen (at this stage, wait for a few minutes due to the data extraction process). The company values you select from the list are displayed on the site as three separate tables. will be shown. The first table is the balance sheet table, the second table is the cash flow table and the third table is the income statements table. The other part is our company information page, on this page you can view the information of the company you have chosen. On the Summary Reports page, the balance sheet, cash flow and income statement graphs of the company selected from the list will appear on your screen. On our Inflation/Interest page, inflation and interest values drawn from the values shared by the Central Bank will be shown to you. Our admin page is designed for us admins. When we log in with our username and password, we can determine and control the update frequency of financial statements from the page. If the password or username is entered incorrectly, the system gives a warning.

First of all,you should enter the github account in the link.

https://github.com/irembeyzagl/SoftwareAgent

After logging into the github account in the link, you need to do the following steps.



After these steps, the code file will be downloaded to your computer in ZIP format. Extract the code file from ZIP format. After extracting the file from ZIP format, follow the steps below. As a result of following the steps below correctly, our program will run without errors.
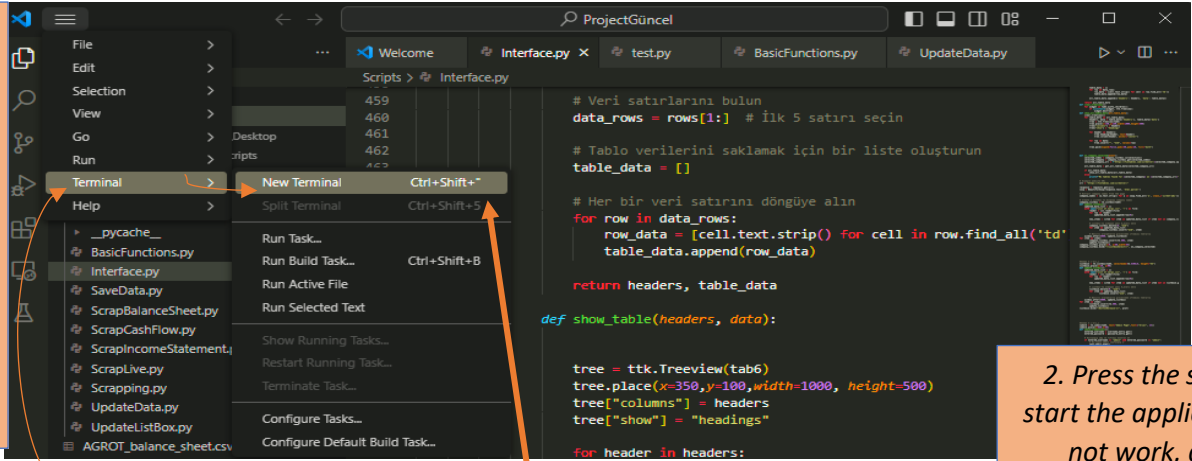
# *Project Installation*
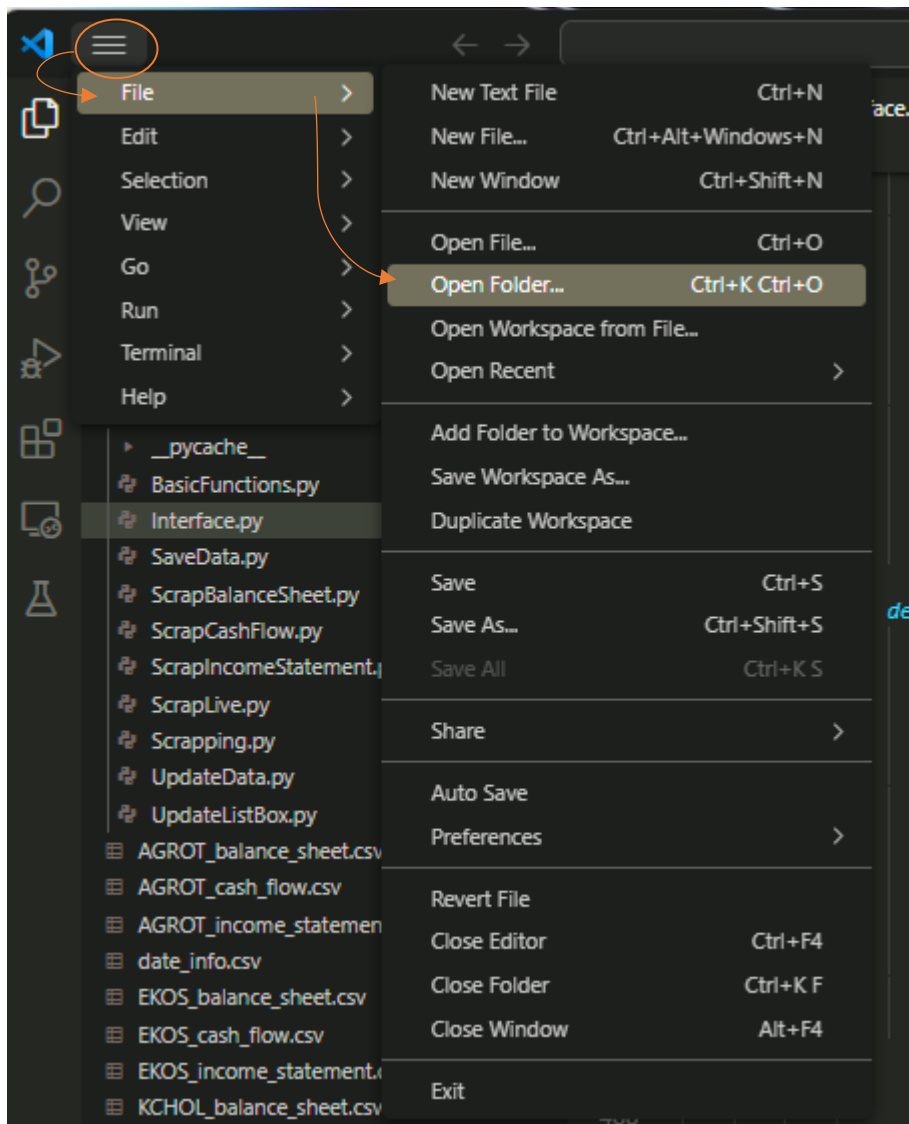


We click on the menu, point to the file option, then click open folder and add the project file to visual studio.
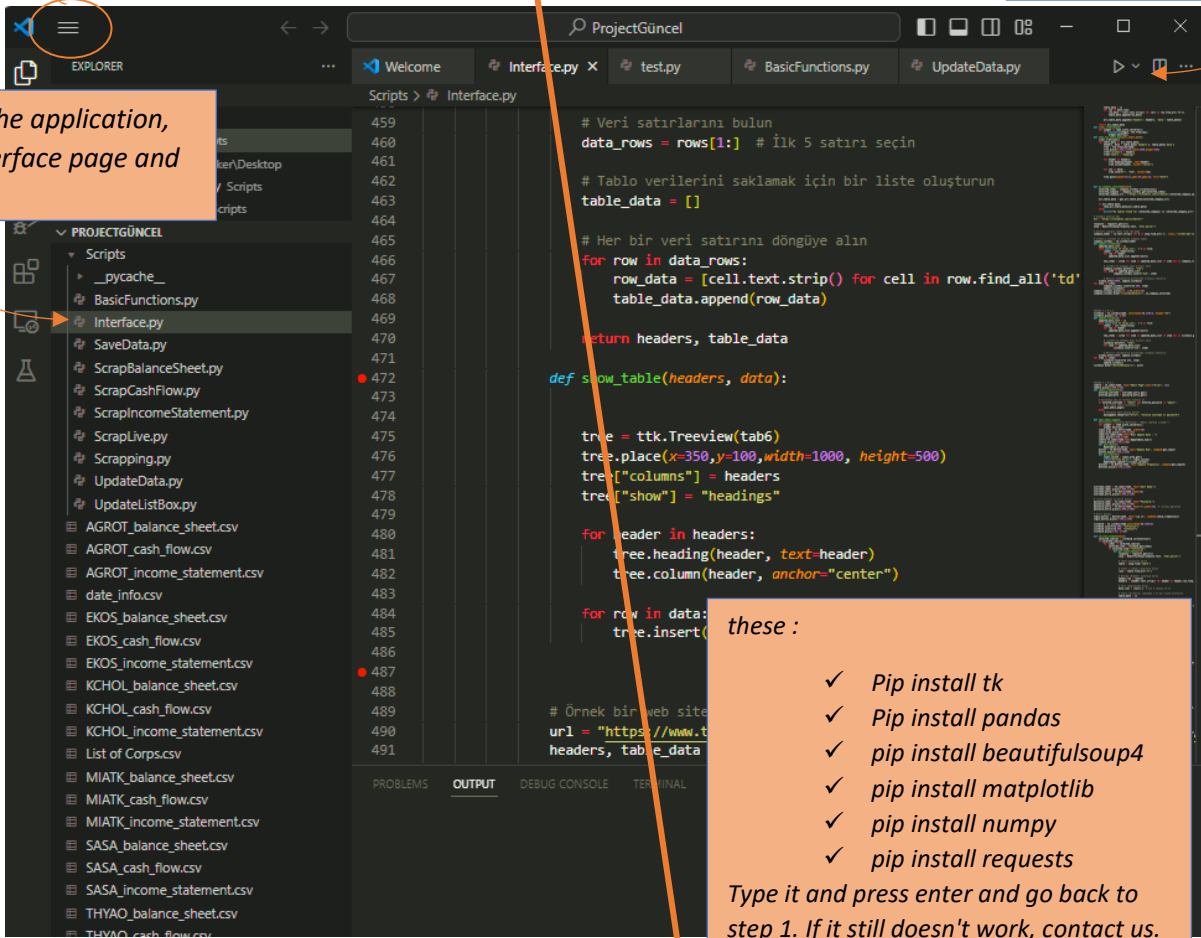
You can see what needs to be done by following the numbers below and follow the steps.

3. Click on the 3 lines to open the terminal menu, click new terminal and go to the bottom pane to the terminal pane.

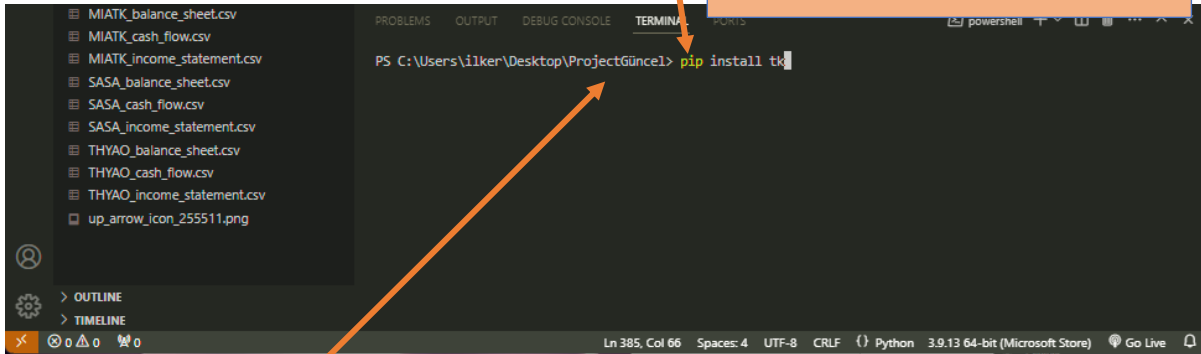2. Press the start button to start the application. If it does not work, go to step 3.

1. To open the application, open the interface page and
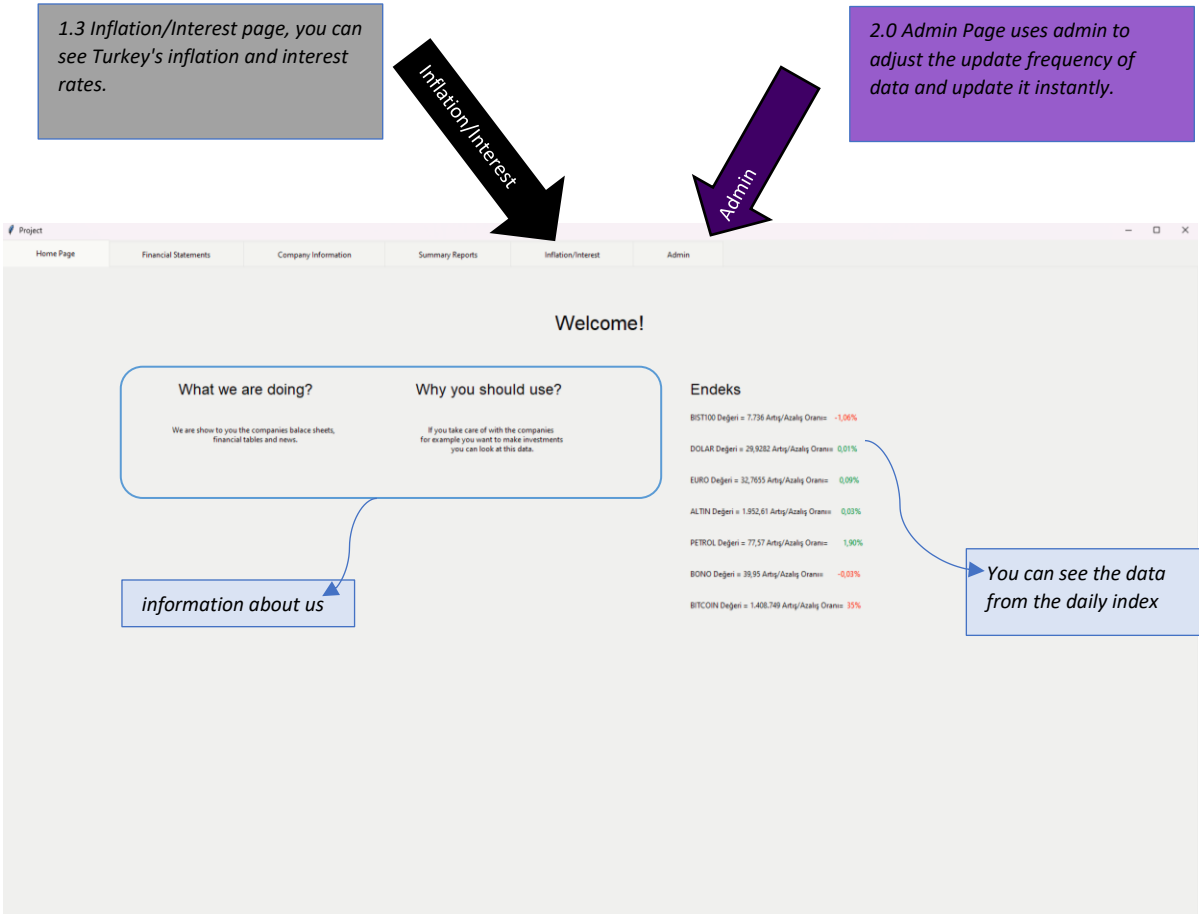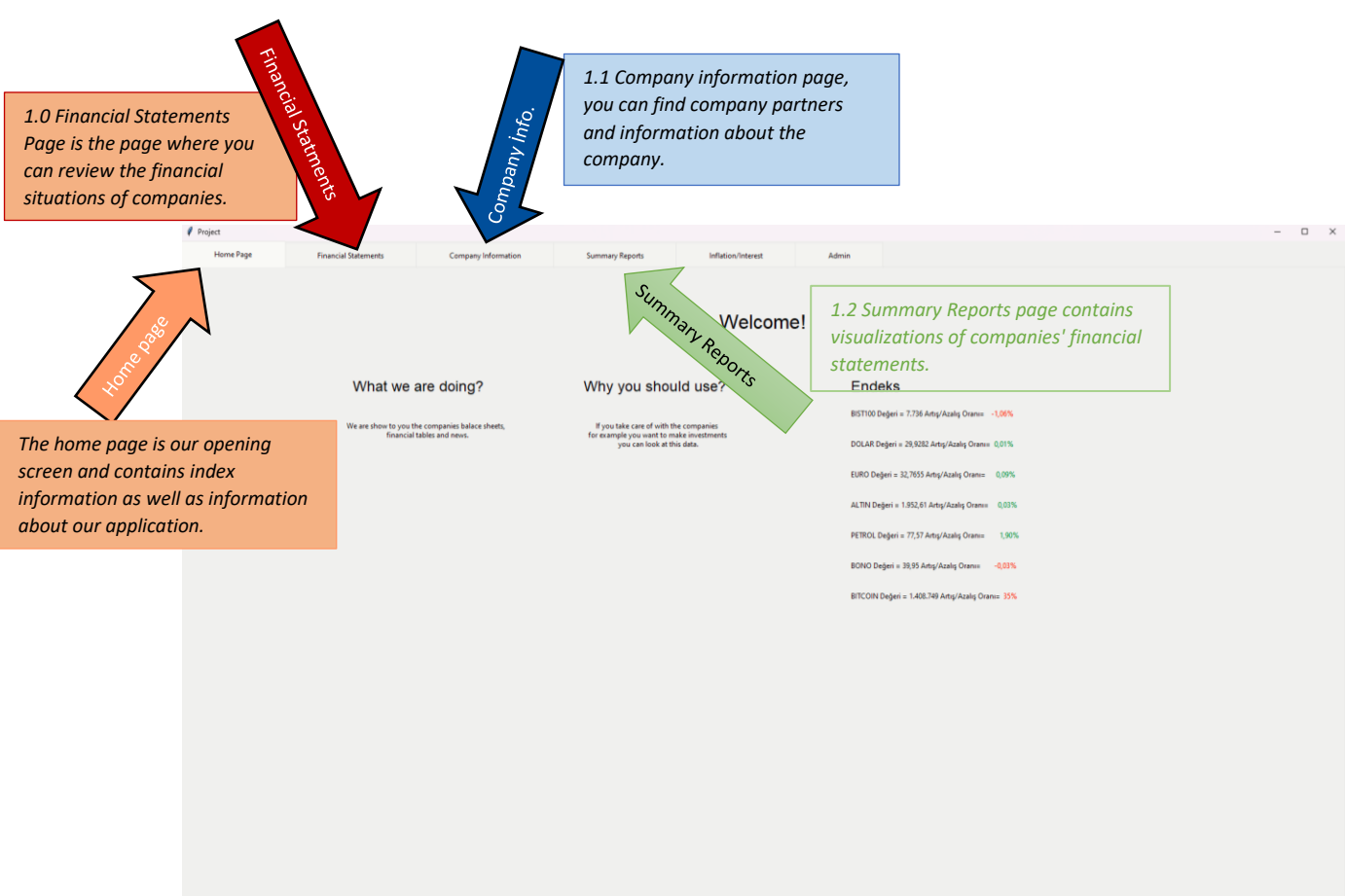
these :

✓ Pip install tk
✓ Pip install pandas
✓ pip install beautifulsoup4
✓ pip install matplotlib
✓ pip install numpy
✓ pip install requests

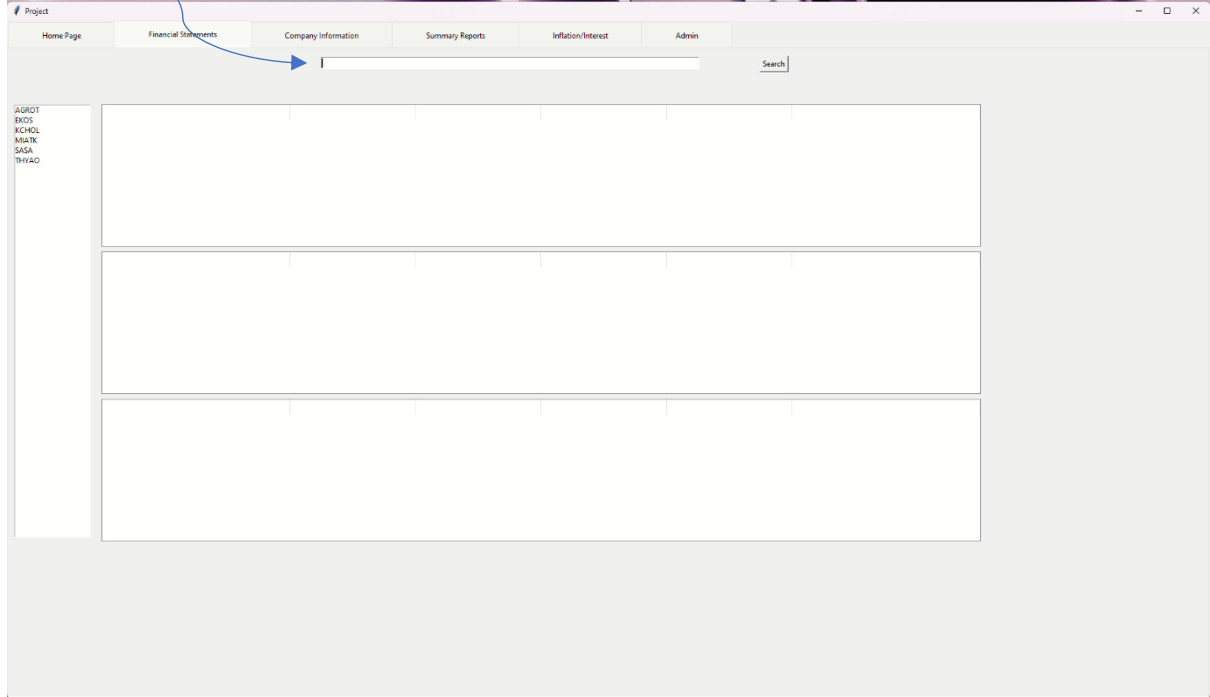Type it and press enter and go back to step 1. If it still doesn't work, contact us.

Note: When you open the terminal, notice that you are in the file path of the Project.

After these steps, you can run the code as in step 2.

*information about us*

*You can see the data from the daily index*

# 1.0 Financial Statments

# 1.1 Company İnformation

companies have areas of activity. The example includes the activities of EKOS company

# 1.2 Summary Reports
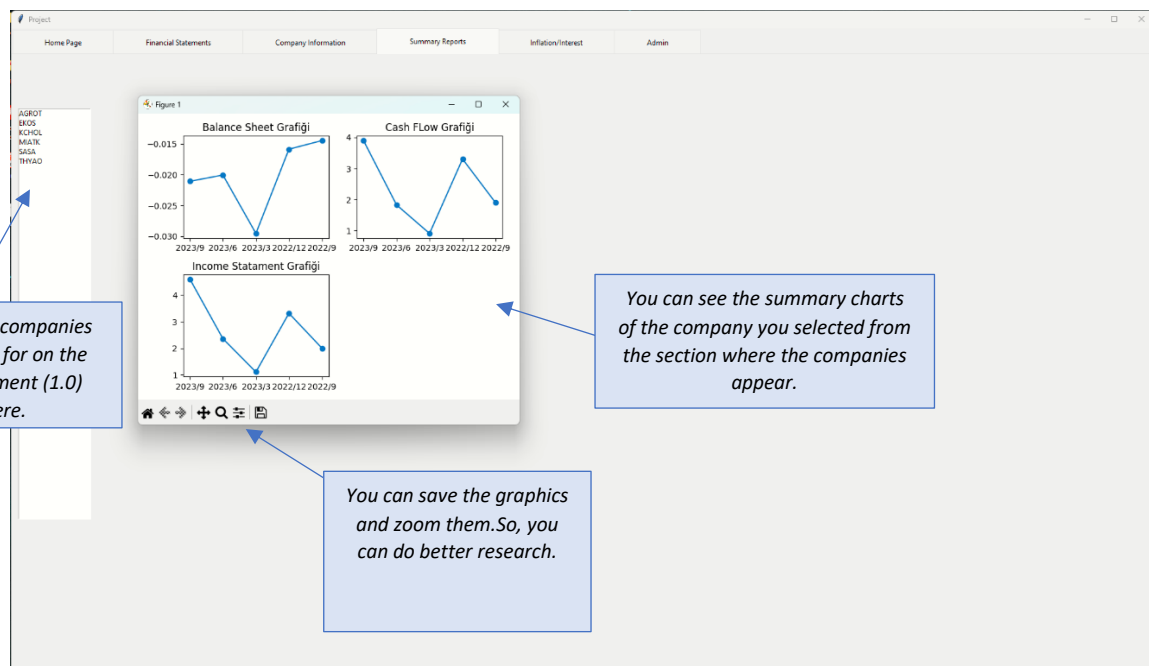


You can see the companies you are looking for on the financial statement (1.0) pages here.

You can see the summary charts of the company you selected from the section where the companies appear.

You can save the graphics and zoom them.So, you can do better research.

# 1.3 Inflation/Interest



If you choose the inflation option, you can see Turkey's inflation data.
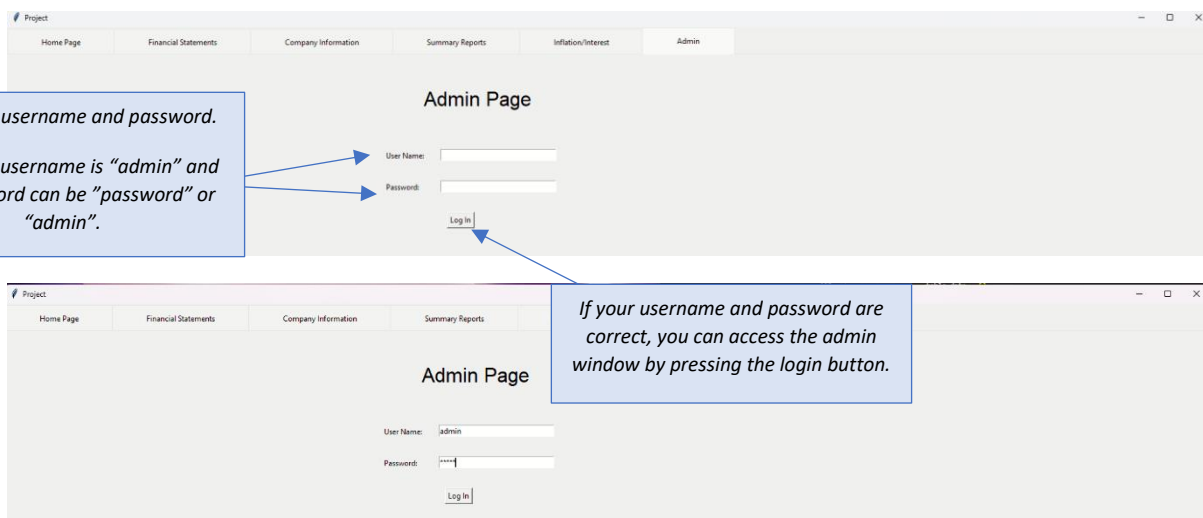
| | TÜFE (Yıllık % Değişim) | TÜFE (Aylık % Değişim) |
|---|---|---|
| 12-2023 | 64.77 | 2.93 |
| 11-2023 | 61.98 | 3.28 |
| 10-2023 | 61.36 | 3.43 |
| 09-2023 | 61.53 | 4.75 |
| 08-2023 | 58.94 | 9.09 |
| 07-2023 | 47.83 | 9.49 |
| 06-2023 | 38.21 | 3.92 |
| 05-2023 | 39.59 | 0.04 |
| 04-2023 | 43.68 | 2.39 |
| 03-2023 | 50.51 | 2.29 |
| 02-2023 | 55.18 | 3.15 |
| 01-2023 | 57.68 | 6.65 |
| 12-2022 | 64.27 | 1.18 |
| 11-2022 | 84.39 | 2.88 |
| 10-2022 | 85.51 | 3.54 |
| 09-2022 | 83.45 | 3.08 |
| 08-2022 | 80.21 | 1.46 |
| 07-2022 | 79.60 | 2.37 |
| 06-2022 | 78.62 | 4.95 |
| 05-2022 | 73.50 | 2.98 |
| 04-2022 | 69.97 | 7.25 |
| 03-2022 | 61.14 | 5.46 |
| 02-2022 | 54.44 | 4.81 |



If you choose the interest option, you can see Turkey's interest data.
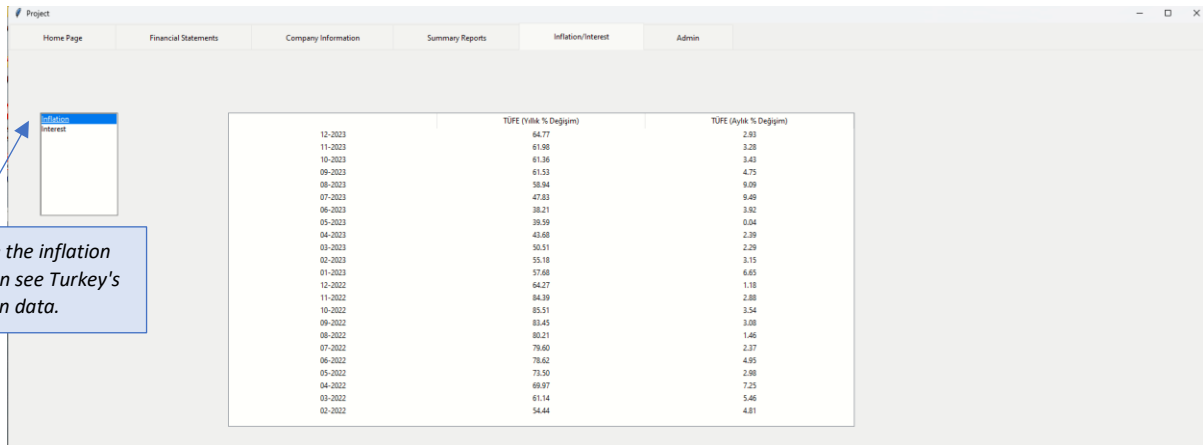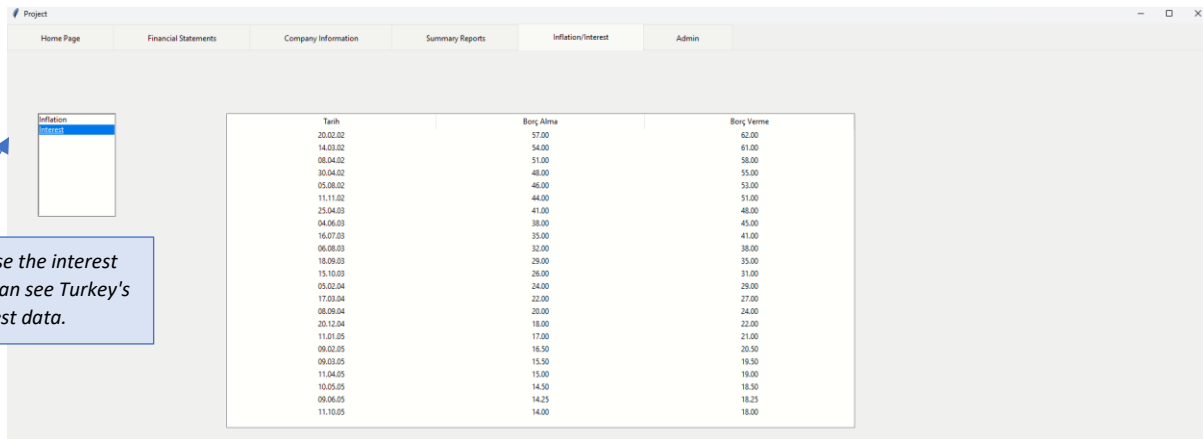
| Tarih | Borç Alma | Borç Verme |
|---|---|---|
| 20.02.02 | 57.00 | 62.00 |
| 14.03.02 | 54.00 | 61.00 |
| 08.04.02 | 51.00 | 58.00 |
| 30.04.02 | 48.00 | 55.00 |
| 05.08.02 | 46.00 | 53.00 |
| 11.11.02 | 44.00 | 51.00 |
| 25.04.03 | 41.00 | 48.00 |
| 04.06.03 | 38.00 | 45.00 |
| 16.07.03 | 35.00 | 41.00 |
| 06.08.03 | 32.00 | 38.00 |
| 18.09.03 | 29.00 | 35.00 |
| 15.10.03 | 26.00 | 31.00 |
| 05.02.04 | 24.00 | 29.00 |
| 17.03.04 | 22.00 | 27.00 |
| 08.09.04 | 20.00 | 24.00 |
| 20.12.04 | 18.00 | 22.00 |
| 11.01.05 | 17.00 | 21.00 |
| 09.02.05 | 16.50 | 20.50 |
| 09.03.05 | 15.50 | 19.50 |
| 11.04.05 | 15.00 | 19.00 |
| 10.05.05 | 14.50 | 18.50 |
| 09.06.05 | 14.25 | 18.25 |
| 11.10.05 | 14.00 | 18.00 |

# 2.0 Admin Page



Enter your username and password.

The initial username is "admin" and the password can be "password" or "admin".

If your username and password are correct, you can access the admin window by pressing the login button.

# 2.1 Admin Page

| Home Page | Financial Statements | Company Information | Summary Reports | Inflation/Interest | Admin |
|---|---|---|---|---|---|

AGROT
ARCLK
EKOS
KCHOL
MIATK
SASA
THYAO

*The value you enter in this field means that the update will be made in the month following the current month by that value.*

*For example, since the current month is January, when we enter the value 4 in this field, it means that the update will be made 4 months after January, that is, in May.*

Next Update Date :   May

Update Now    Udpate Frequency    update selected companies

If you want to update immediately

*You can set the update time by pressing the button in the screenshot with the text balloon, the next update date is May.*

*If you enter 5 and click on Update Frequency, it is stated that we want it to be updated 5 months after January. And this next update date will change.*

## Project

| Home Page | Financial Statements | Company Information | Summary Reports | Inflation/Interest | Admin |
|---|---|---|---|---|---|

AGROT
ARCLK
EKOS
KCHOL
MIATK
SASA
THYAO

5

Next Update Date :   June

Update Now    Udpate Frequency    update selected companies

If you want only certain companies to be updated, you should select the company or companies, which you want, in the list, and after this, if  you click the update selected companies button only the selected companies will be updated.

## Project

| Home Page | Financial Statements | Company Information | Summary Reports | Inflation/Interest | Admin |
|---|---|---|---|---|---|

AGROT
ARCLK
EKOS
KCHOL
MIATK
SASA
THYAO

5

Next Update Date :   June

Update Now    Udpate Frequency    update selected companies

Selected Companies Updated( KCHOL MIATK SASA )

And after the update the selected companies you will see this information in the page.

# *Granding Each Student:*

|  | İlker Yayalar | İrem Beyza Gül | Hüseyin Sezerol | Abdulbaki Akgün | Raşit Akşit | Enes Efe |
|---|---|---|---|---|---|---|
| Attendance at Meetings |  |  |  |  |  |  |
| Taking Part in Coding |  |  |  |  |  |  |
| Communication with Group Members |  |  |  |  |  |  |
| Cooperation and Teamwork |  |  |  |  |  |  |
| Ability to Take Responsibility |  |  |  |  |  |  |

Scoring is in the range of 0-5. (5 very good, 0 very bad.)

If you want to write about your colleagues, good or bad, you can write here.

(not mandatory, optional.)

| İlker Yayalar | İrem Beyza Gül | Hüseyin Sezerol | Abdulbaki Akgün | Raşit Akşit | Enes Efe |
|---|---|---|---|---|---|
|  |  |  |  |  | . |