

AKDENİZ UNIVERSITY

Computer Engineering

Principles of User Interface Design

CSE 281

Intermediate Report

Prepared for

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28th of November, 2020

Group Member Responsibilities

Tasks

Project	Func. Req.	User An.	Task An.	Flowchart	Low Fid.	High Fid.	Predictive Eval.	Usability Ins.	Usability Test
Progress	100%	100%	100%	100%	100%	100%	100%	100%	100%
Emre	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enes	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mazlum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	✓	✓	<input type="checkbox"/>
Mehmet	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yener	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zafer	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

We have committed ourselves into this Project to create better and modern human interactable interfaces. We have put our full effort to this Project.

Task Analysis

Goal

- Our goal is to create an application so that users can easily see their portfolios, net gross, money status, shared market values and related news, which connects your shared market data, as well as all the accounts you have so that all of your money applications can be reduced to one, so that you don't have to use many applications.

Preconditions

- Our user interface must know name, surname, password and email to create account, phone number is optional. To make transactions you need to login via E-Devlet and your bank account to enable, or you can use our application without any information about your bank accounts like a wallet app, but this means that you cannot do any transactions or buy, sell a shared market.

Subtasks:

- Login, sign up, forgot password → reset password, use QR code.
- Main page that shows a summary of all pages (portfolios).
- Bank Accounts → See bank accounts and credit cards details, transfer money.
- Stock Market → See/Buy/Sell/Order stock markets, related news and high/low pick of stock market.
- Net Gross → Shows net gross of each month → See net worth and spent details.
- Expenses → Shows expenses for this month → See net worth and spent details.
- Scheduled Bills → Show Bills → Pay your bills and automate them.
- Settings → Change password/e-mail/phone number/security preferences, set themes/language/time-zone and assistants, see history and backup data.

Where is the task performed?

- Tasks can be performed without internet connection, but if you want to refresh or do some transactions, buy/sell/order shared market or see detailed news you must be connected to the internet.

Similar Softwares

- Ziraat Bank, IsBank etc. → They are limited in terms of news and showing all months information.
- PaPara, Paribu etc. → They are limited in terms of transactions, shared markets and news information.

Project Functions

-This project provides us use different bank accounts in the same application. With that it's easy to reach and execute processes about our accounts.

-We can access our account easily with QR code or for normal login includes mail and password.

-If you don't have an account you can create new, if you forgot your password you can change your password after few security protocols.

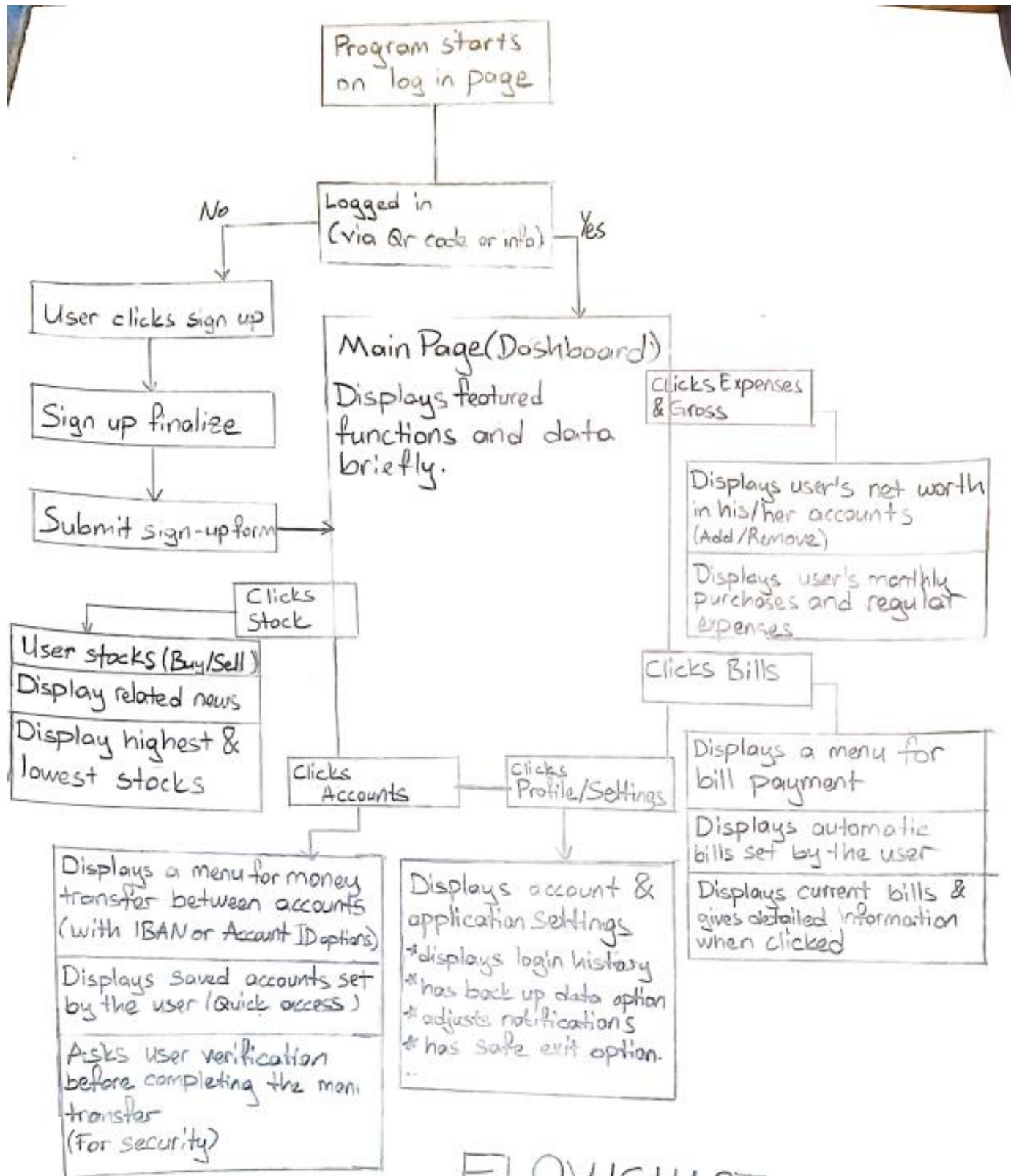
-At the main screen we can see all menu details like summary. At the Expenses section we can see monthly spends and their kind (food,health,etc..) , total money we spend to them, for income and outcome we can see our saves on monthly.

-At the Bills section we can see and pay our bills, get information about them, create automatic pay.

-At Stock section we can manage our stocks, buy and sell, see instant change, read news about the firm we buy the stock.

-At Account section we can see our accounts and cards, see recent transactions we did that account, read the decont about that transaction, send money to IBAN or account.

-At settings section we can change security preferences.



FLOWCHART

- Yener Karaca 201908080042
- Mehmet Melih Karabaya 201908080067
- Muhammed Marlum Orhan 201908080017
- Zafer Barış 201808080011
- Emre Cıl 201908080058
- Enes Ay 201908080033

USER ANALYSIS

The possible user age range of this web-based application is between 18-75. It is an application that can be used by anyone in the specified age range regardless of any religion, language, or race. If we talk about the categories in the application:

1- In the bank account category, this category is for users who are bored with lots of bank account apps. Users will be able to collect all bank accounts under this menu in this application instead of checking all their bank accounts one by one.

2- In the stock market category, this category is for those who buy and sell stocks, or it will be a good start for those who are interested in the stock market and want to start.

3- In the expenses category, this category is for those who forget to pay their debts or want to see their debts in all accounts. In this menu you will see how much money you spent on what kinds of things. It will also help you compare your spending over the past months to see how you should manage your money and savings.

4- In the scheduled category, this category is for those who have trouble paying bills. In this menu, you can save all your bills and pay your bills directly. If you wish, the app will automatically pay for you by enabling automatic payment.

5- In the net gross category, this category is for users who want to see their remaining money by calculating all income and expenses. With this application, you will manage your money more easily and you will see that your remaining money will increase over time.

Predictive Evolution and KLM

All KLM assumes program runs (User does not have to open from their desktop)

- *Average name length: 6*
- *Average surname length: 6*
- *Average email length: 25*
- *Average password length: 10*

1-Sign Up Page

- **Using Tab key to go next input and pressing Enter to press buttons**

Sign up: M -> P -> B(Textbox selected)-> H ->6K(Name) -> K(Tab) -> 6K(Surname) -> K(Tab) -> 25K(Email) -> K(Tab) -> 10K>Password) -> K(Tab)-> 10K>Password) -> K(Tab) -> K(Enter Sign up button) -> R

Time: 18.76 second

- **Using mouse to go next input**

Sign up: M -> P -> B(Textbox selected) -> H -> 6K(Name) -> H -> P -> B(Textbox selected) -> H -> 6K(Surname) -> H -> P -> B (Textbox selected)-> H-> 25K(Email) -> H -> P -> B(Textbox selected) -> H-> 10K>Password) -> H -> P -> B(Textbox selected) -> H -> 10K>Password) -> H -> P-> B(Sign up Button) -> R

Time: 30.04 second

2-Log In Page

- **Using Tab key to go next input and pressing Enter to press buttons**

Log in: M -> P -> B(Textbox selected) -> H-> 25K(Email) -> K(Tab) -> 10K>Password) -> K (Tab)-> K(Enter Log in button) -> R

Time: 13,44 second

- **Using mouse to go next input**

Log in: M -> P -> B (Textbox selected)-> H -> 25K(Email) -> H -> P -> B(Textbox selected) -> 10K>Password) -> H -> P -> B(Log in Button) -> R

Time: 15.8 second

4-Forgot Your Password Page

Change password: M -> P -> B(Textbox selected) -> H -> 25K(Email) -> H -> P -> B(Send Code Button) -> R(Sends 6 digit code to email, it assumes email is open) -> P -> B(Textbox selected) -> H -> 6K(Code) -> H -> P -> B(Textbox selected) -> H -> 10K(New password) -> H -> P -> B(Textbox selected) -> H -> 10K(New password) -> H -> P -> B(Change button) -> R

Time: 25.88 second

4-Bill Pay Page

Bill Pay: M -> P -> B(Dropdown menu) -> M -> B(Bill type select) -> P -> B(Dropdown menu) -> M -> B(Corporation selected) -> P -> B(Text box selected) -> H -> 10K(ID) -> H -> P -> B(Next Button) -> R -> M -> P -> B(Bill Selected) -> R -> M -> P -> B(Account Selected) -> R -> M -> P -> B(Verify Button)

Time: 18.80 second

5-Send Money Pay Page

Money Send: M -> P -> B(decides to IBAN or ID) ->

- **If it's IBAN:** P -> B(Textbox selected) -> H -> 16K(IBAN) -> H -> P -> B(Textbox selected) -> H -> 13K(name & surname) -> H -> P -> B(Next) -> R
- **If it's ID:** P -> B(Dropdown menu) -> M -> B(Bank selected) -> P -> B(Textbox selected) -> H -> 16K(ID) -> H -> P -> B(Textbox selected) -> H -> 13K(name and surname) -> H -> P -> B(Next) -> R ->

M -> P -> B(Account Selected) -> R -> M -> P -> B(Textbox selected) -> H -> n*K(amount of money) -> H -> P -> B(Textbox selected) -> H -> n*K(Type of Sending) -> H -> P -> B(Textbox Selected) -> H -> n*K(Description) -> H -> P -> B(Date Object selected) -> P -> B(Date selected) -> P -> B(Next Button) -> R -> M -> P -> B(Verify Button)

Time: Time changes way too much according to user's money and description.

** all times does not include system responds.

Usability Inspection

General

At first, we decided to everyone will make their personal design then we going to choose one of them which fulfill our main goal and UI interface steps. After a long argument we continue on Mehmet's interface and we took best parts and ideas of other projects and we combined them. After this, one of us redesign every element in project to make the project looks like design by one hand.

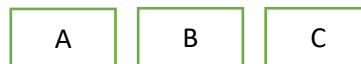
In the first project button and textbox wasn't in the same length, we thought it's not a good design so we change the every button's length in projects.

Instead of listing object in order to down in rows we use big card design system. In this every object have itself $n \times n$ pixel and other object takes right side of previous one. In this domain we wrote object's property inside of it. And this was one the best idea of application. It modern and efficient design for few items(Generally a user has few accounts not one hundred).

First Design

- A
- B
- C

Last Design



In this design we didn't use borders instead of this we use shadows affect to split objects and background. Objects and background have same color with this want to accomplish minimalist app. We don't want to bother users with lots of colors.

Log in page

In first log in page, left side has mini stock market interface. We thoughts it is not necessary for every user so we deleted this and added a QR login option to make login more easier and safer. Remember me, Forgot your password, Don't have an account options wasn't in ordinary list, we want to make a clear application so we place every one of them left or side.

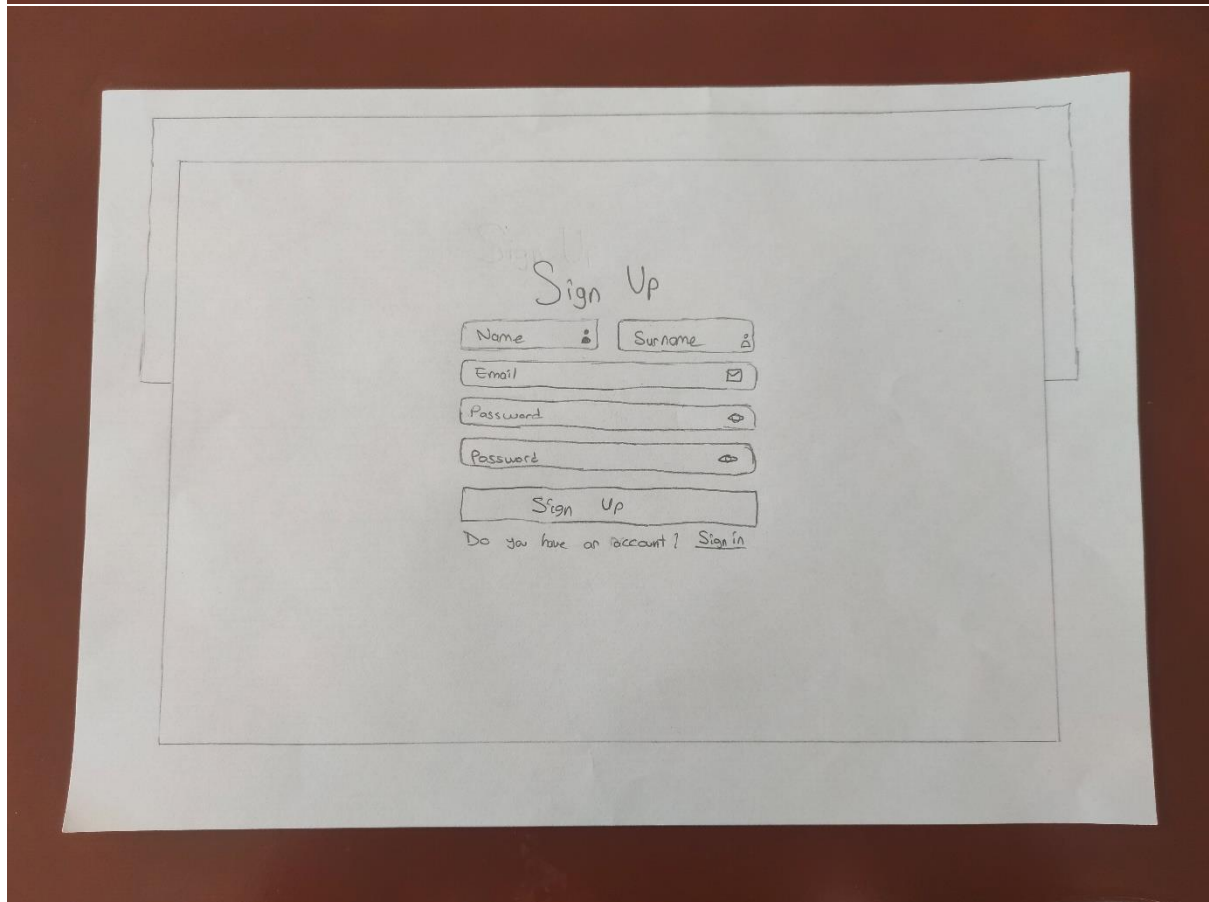
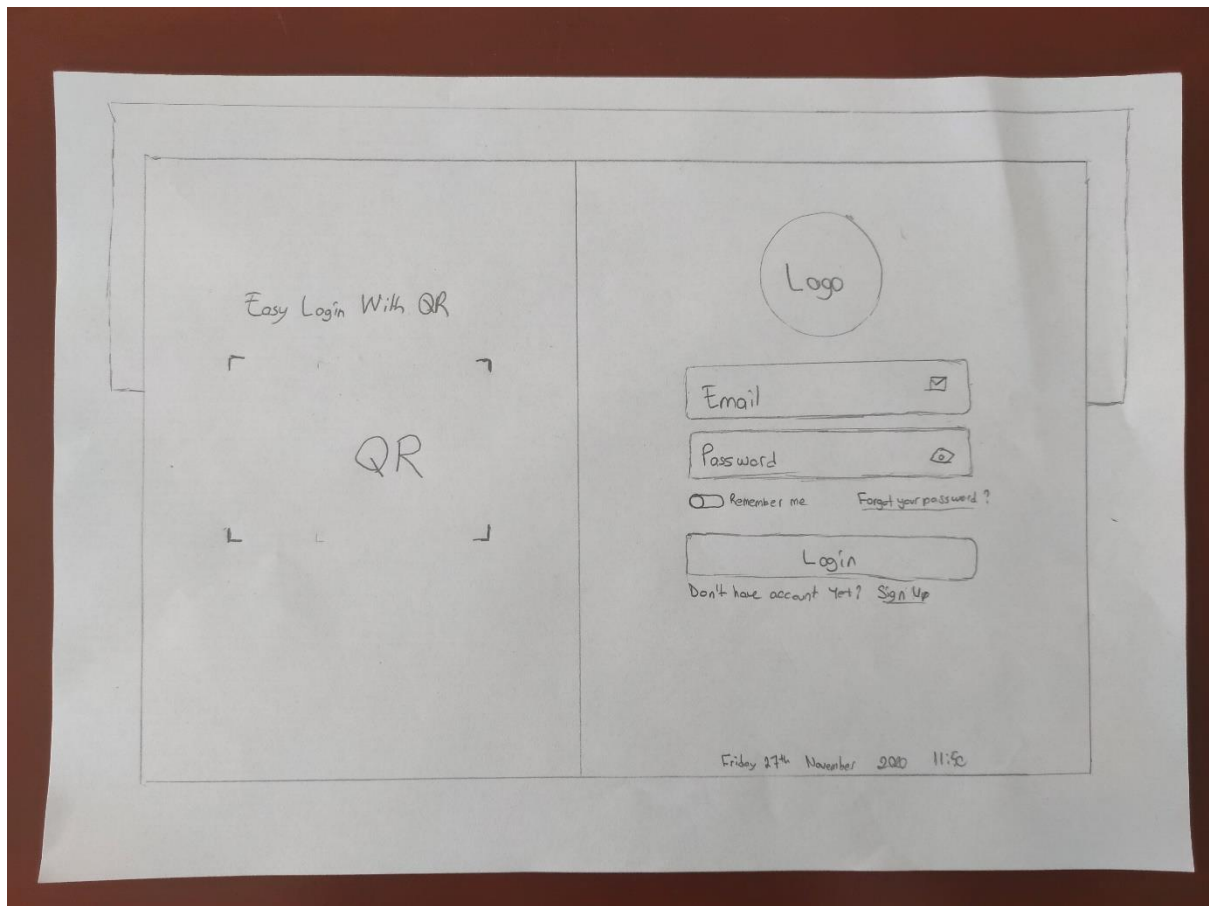
Setting pages

most of pages have two or three content, because of desktop applications are big we don't want to make pages with empty content instead of this we did multi-layouts with fulfill content which not bother user. With this we prevent the users to lost in pages.

Application setting has lack of some options, some users may not found something that used to in other apps. This was missing part of projects.

We have basic setting with simple interface which every user will understand easily .

Low Fidelity



Scan QR Code In Saved Device

QR

Easily reset your password with QR

Forgot Your Password ?

Email ☒

Send Code

Code

New Password

Password

Change Password

Don't have an account yet ? [Sign Up](#)

Home

Stock

Expenses & Gross

Bills

Accounts

Mr. Nobody

Bank Accounts

Ziraat ₺2000

Yapi Kredi ₺5000

Bank Of America ₺15000

Yatir ₺100

ING ₺2000

Expenses

Automated Bills ₺86

Groceries ₺300

Taxes ₺350

Rent of House → 3000

Rent of Car → 1500

Stock Market

KLGYO 2 \$ x 20.000 ₺ 40.000 \$

SELC 7 \$ x 10.000 ₺ 70.000 \$

TKNSA 11 \$ x 1000 ₺ 11.000 \$

SIHIS 5 \$ x 100 → 500 \$

APPL 500 \$ x 5 ₺ 2500 \$

Scheduled Bills

☐ Pay the next month's rent

☒ Pay your income tax

☒ Take some money from bank

☒ Buy some TKNSA stocks.

Net Gross

Month	Net Gross
Jan	~100
Feb	~150
Mar	~250
Apr	~120
May	~180

Home
Stock
Expenses & Gross
Bills
Settings
Mr. Nobody

Bill Pay

Bill Type
^
v

Corporation
^
v

ID

☐ Pay Automatically

Next

Automatic Pays	
Description	Last Paid Date
MyPhone Bills	Date
Bill Sample 2	Date
Bill Sample 3	Date
Bill Sample 4	Date
Bill sample 5	Date

Home
Stock
Expenses & Gross
Bills
Accounts
Settings
Mr. Nobody

Bank Accounts

Ziraat Bank
detail >

Bank of America
detail >

Tapi Kredi Bank
detail >

Details

Details

Details

Details

Details

Details

Credit cards

Ziraat Bank
detail >

Bank of America
detail >

Details

Details

Details

Details

Home
Stock
Expenses & Gross
Bills
Accounts
Mr. Nobody

Breakdown
History

Your Net Worth
\$ 187.367

95%

Bank Name

worth

Bank Name

worth

Bank Name

worth

Total Assets

Total Worth

Date
spent this month
\$ 2500
7 days left

Home left

Bills

Shopping

Other

Home
Stock
Expenses & Gross
Bills
Accounts
Settings
Mr. Nobody

Stock Market

APPL 192\$
details ...

180 \$ 1000 stock 2000 \$
Order Buy Sell

Sample 2

Sample 3

Sample 4

Related News

Sample News

Sample News 2

Sample News 3

Sample News 4

Highest

Day

Sample stock Sample stock

Week

Sample stock Sample stock

Month

Sample stock Sample stock

Lowest

Day

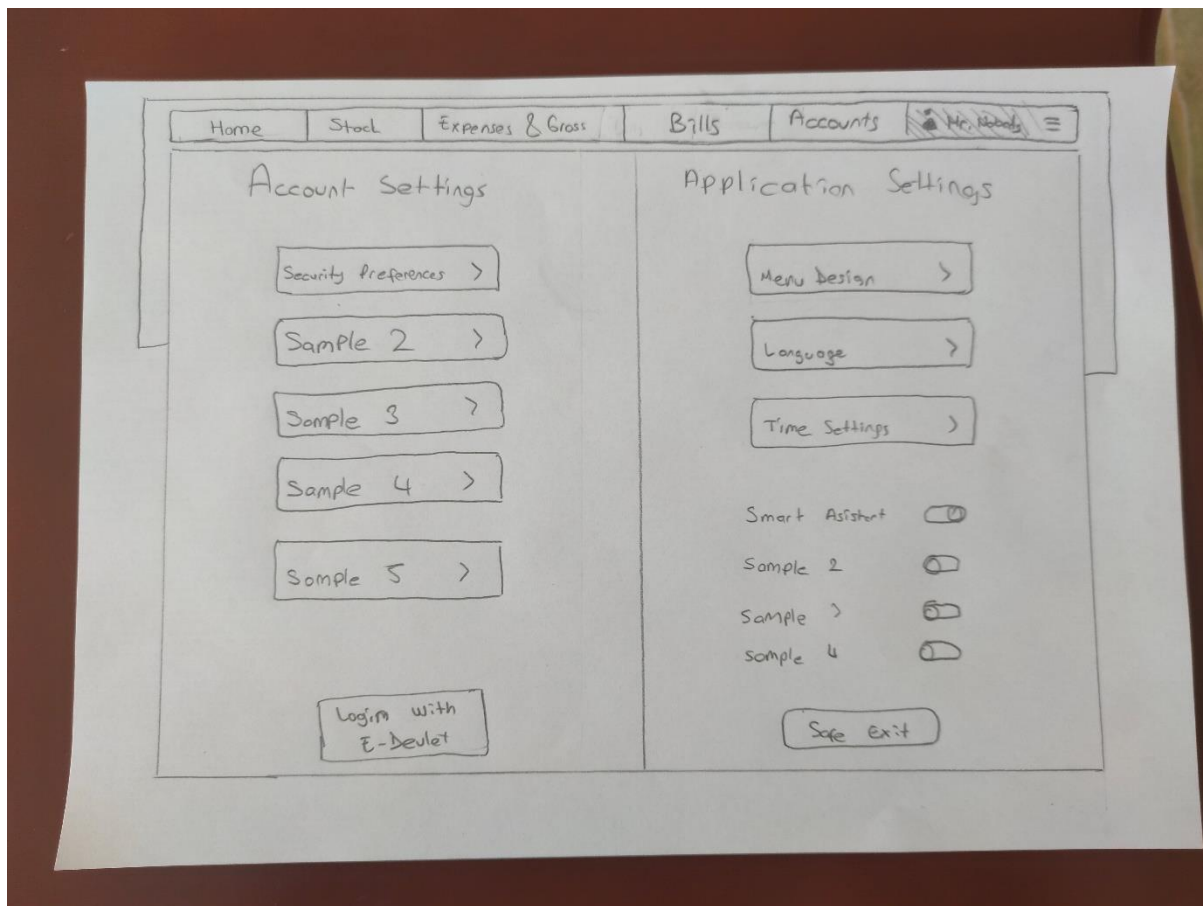
Sample stock Sample stock

Week

Sample stock Sample stock

Month

Sample stock Sample stock



Feedback

Our desing is tested by Metehan Ünal, a classmate of ours. Since he is our classmate we wanted to be honest to us so that we can improve our Project. In this section we put his opinions and feedbacks.

- 1- It is not clear how / where the bank credit card is added
- 2- Login with the state below in the profile section, but the user is already logged in, isn't he? Is that button there to add credit and debit cards.
- 3- Again, there is both dark mode and night mode in the profile section, and the differences between the two may not be clear to someone who uses it for the first time
- 4- Percentages of something are shown in the Expenses section, but I could not understand what percentages

REST OF OUR REPORT IS HIGH FIDELITY

Easly login with QR



Email

Password



Remember me

[Forgot your Password?](#)

Login

Don't have an account yet? [Sign Up](#)

Tuesday 24th November 2020 22:42

Scan QR code in saved
device



Easly reset your password with QR

Forgot Your Password?

Email Address

Send Code

Code

Password

Password

Change Password

Don't have an account yet? [Sign Up](#)

Sign Up

Name	Surname
Email	
Password	

Sign Up	

Do you have an account? [Sign In](#)

Home

Stock

Expenses & Gross

Bills

Settings

Mr.Nobody



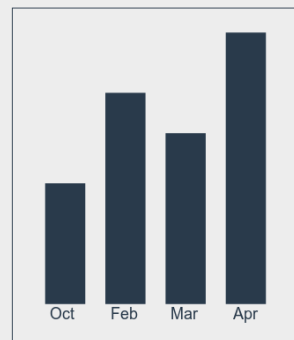
Bank Accounts

Ziraat	2000
Yapikredi	3000
Akbank	4000
Is	5000
Vakif	5000

Stock Market

APPL	192\$ X 500	2000 \$
INTL	192\$ X 500	2000 \$
THYAO	192\$ X 500	2000 \$
ECZIC	192\$ X 500	2000 \$
MIGRS	192\$ X 500	2000 \$

Net Gross



Expenses

Automated Bills	7.60
Groceries	7.60
Taxes	7.60
Rent of House	7.60

Scheduled Bills

<input type="checkbox"/> Pay the next month's rent
<input checked="" type="checkbox"/> Pay your income tax
<input checked="" type="checkbox"/> Take some money from the bank
<input type="checkbox"/> Buy some APPL stokcks.

Amount	\$12,3
Date:	12.10.2020 20.34

Home

Stock

Expenses & Gross

Bills

Accounts

Mr.Nobody

Send Money

With IBAN

With Account Id

Bank

Account ID

Name Surname

☐ Remember this

Next

Saved Accounts

Description	Last sent date
Emrenin	02-Feb-2020
Mehmetooo	31-Feb-2020
Samsunlu	01-Mar-2020

Home

Stock

Expenses & Gross

Bills

Accounts

Mr.Nobody

Back

Send Money

Select an Account

Ziraat Bank

Bank Account-drawing

Account Id: 1923

Name: Akdeniz University

Amount: \$3000.00

Avialable amount: \$2210.24

Select

Bank of America

Bank Account-drawing

Account Id: 1923

Name: Washington DC

Amount: \$5000.00

Avialable amount: \$100.00

Select

Bank of America

Bank Account-saving

Account Id: 1923213

Name: Detroid 8 mile

Amount: \$1200.00

Avialable amount: \$269.00

Select

Home

Stock

Expenses & Gross

Bills

Accounts

Mr.Nobody

Details

Send Money

Amount of money

\$ ____

Type of Sending

Description

Date

☐ Add my name to description

Next

←

→

Home

Stock

Expenses & Gross

Bills

Accounts

Mr.Nobody

Back

Send Money

Verify the send

Reciver

5292 0800 7668 8886

Bank of America

Name: George Flody

Sender

Ziraat Bank

Bank Account-drawing

Account Id: 94949313 321

Name: Akdeniz University

Avialable amount:

\$21210.24

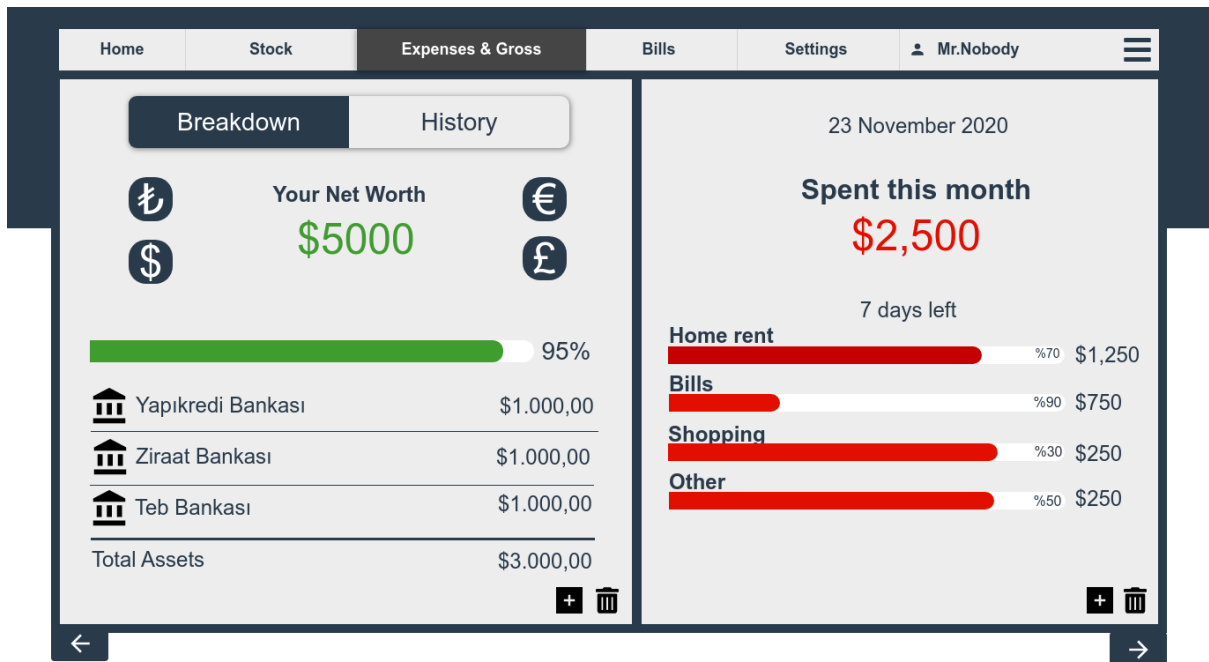
Amount:

-\$112.00

Verify

←

→



23 November 2020

Spent this month

\$2,500

7 days left

Home rent

%70

\$1,250

Bills

%90

\$750

Shopping

%30

\$250

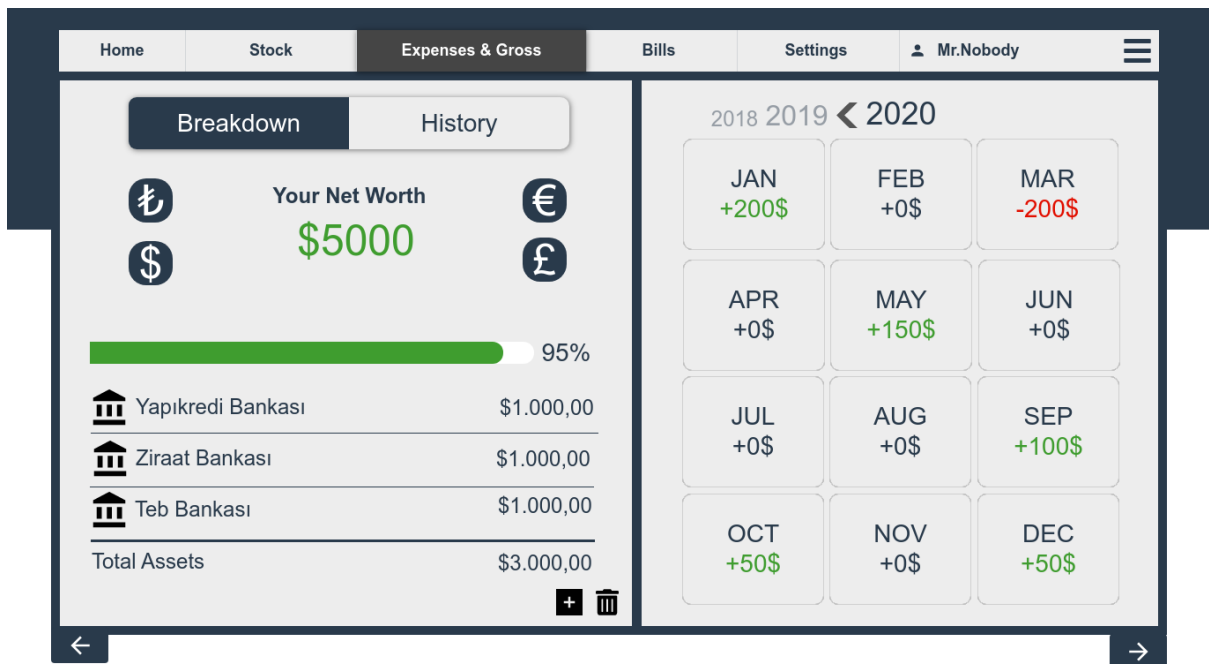
Other

%50

\$250

+

🗑



2018

2019

2020

JAN

+200\$

FEB

+0\$

MAR

-200\$

APR

+0\$

MAY

+150\$

JUN

+0\$

JUL

+0\$

AUG

+0\$

SEP

+100\$

OCT

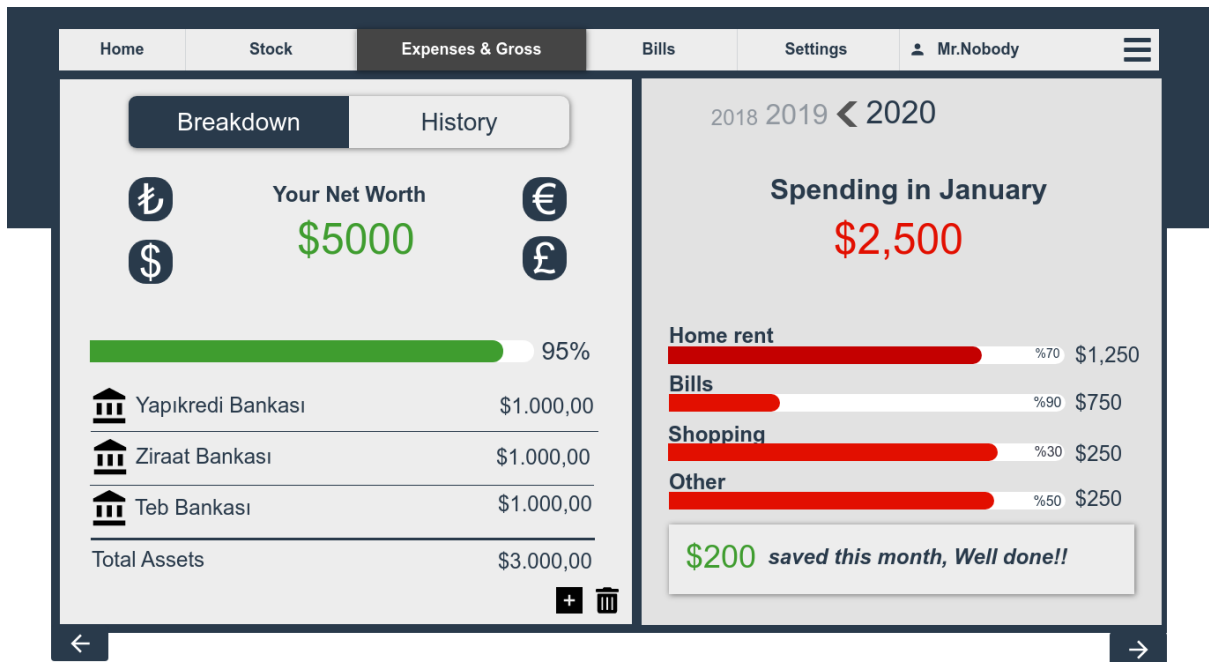
+50\$

NOV

+0\$

DEC

+50\$



2018 2019 < 2020

Spending in January

\$2,500

Home rent

%70 \$1,250

Bills

%90 \$750

Shopping

%30 \$250

Other

%50 \$250

\$200 saved this month, Well done!!

Home

Stock

Expenses & Gross

Bills

Settings

Mr.Nobody

Bill Pay

Bill Type

Corparation

ID

Pay Otomatically

Next

Automatic pays

Description

Last Paid Date

MyPhone's bill

02-Feb-2020

Lover's fkbill

31-Feb-2020

Son's

01-Mar-2020

wife's phone

31-Feb-2020

Netflix

01-Mar-2020

Home

Stock

Expenses & Gross

Bills

Settings

Mr.Nobody

Bill Pay

Bill Type

Corporation

ID

☒ Pay Otomatically

Description

Next

Automatic pays

Description	Last Paid Date
MyPhone's bill	02-Feb-2020
Lover's fkbill	31-Feb-2020
Son's	01-Mar-2020
wife's phone	31-Feb-2020
Netflix	01-Mar-2020

Home

Stock

Expenses & Gross

Bills

Settings

Mr.Nobody

Back

Bill Pay

Available Bills

America Gas

Last Paying Date: 25-Feb-2020

Next

ID: 1985010101
Name: George Flody
Address: 17439-17401 E 9 Mile Rd,
Eastpointe

Amount: \$210.24

America Gas

Last Paying Date: 25-Feb-2020

Next

ID: 1985010101
Name: George Flody
Address: 17439-17401 E 9 Mile Rd,
Eastpointe

Amount: \$212.00

America Gas

Last Paying Date: 25-Oct-2020

Next

ID: 1985010101
Name: George Flody
Address: 17439-17401 E 9 Mile Rd,
Eastpointe

Amount: \$120.24

Home

Stock

Expenses & Gross

Bills

Settings

Mr.Nobody

Back

Bill Pay

Select an Account

Ziraat Bank

Bank Account-drawing

Account Id: 1923

Name: Akdeniz University

Amount: \$3000.00

Avialable amount: \$2210.24

Pay

Bank of America

Bank Account-drawing

Account Id: 1923

Name: Washington DC

Amount: \$5000.00

Avialable amount: \$100.00

Pay

Bank of America

Bank Account-saving

Account Id: 1923213

Name: Detroid 8 mile

Amount: \$1200.00

Avialable amount: \$269.00

Pay

Ziraat Bank

Credit Card

Account Id: 1923

Name: Akdeniz University

Amount: \$3000.00

Avialable amount: \$123.99

Pay

Bank of America

Credit Card

Account Id: 1923

Name: Akdeniz University

Amount: \$3000.00

Avialable amount: \$1200.00

Pay

Home

Stock

Expenses & Gross

Bills

Settings

Mr.Nobody

Back

Bill Pay

Verify the paying

America Gas

Last Paying Date: 25-Feb-2020

ID:1985010101

Name:George Flody

Address:17439-17401 E 9 Mile Rd, Eastpointe

Ziraat Bank

Bank Account-drawing

Account Id: 1923

Name: Akdeniz University

Avialable amount: \$2210.24

Amount: -\$212.00

Verify

Home

Stock

Expenses & Gross

Bills

Settings

Mr.Nobody

Stock Market

APPL 192\$ D 5.3% W 1.3% M 0.23% Y 5.3%

180\$

500 Stock

2,000,000 \$

Order

Buy

Sell

APPL 192\$ D 5.3% W 1.3% M 0.23% Y 5.3%

180\$

500 Stock

2,000,000 \$

Order

Buy

Sell

APPL 192\$ D 5.3% W 1.3% M 0.23% Y 5.3%

180\$

500 Stock

2,000,000 \$

Order

Buy

Sell

APPL 192\$ D 5.3% W 1.3% M 0.23% Y 5.3%

180\$

500 Stock

2,000,000 \$

Order

Buy

Sell

+

Related News

New iPhone

APPL

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec maximus dui ac nibh maximus, placerat

AMD Chips

INTL

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec maximus dui ac nibh maximus, placerat

Koronavirus

THYAO

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec maximus dui ac nibh maximus, placerat

Turkish Economy

ECZIC

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec maximus dui ac nibh maximus, placerat

Swiss Capital

MIGRS

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec maximus dui ac nibh maximus, placerat

Highest

Day

APPL 5.3% 192\$

AMZN 5.3% 192\$

Week

MSFT 5.3% 192\$

TESL 5.3% 192\$

Month

APPL 5.3% 192\$

AMD 5.3% 192\$

Lowest

Day

APPL 5.3% 192\$

AMD 5.3% 192\$

Week

APPL 5.3% 192\$

AMD 5.3% 192\$

Month

APPL 5.3% 192\$

AMD 5.3% 192\$

Home

Stock

Expenses & Gross

Bills

Settings

Mr.Nobody

Stock Market

APPL 192\$ D 5.3% W 1.3% M 0.23% Y 5.3%

180\$

500 Stock

2,000,000 \$

Order

Buy

Sell

Day

2.1% 192\$

5.3% 180\$

Year

2.1% 192\$

5.3% 180\$

Vol.

12,000,000

23,000,000,000

APPL News

New iPhone

APPL

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec maximus dui ac nibh maximus, placerat

New M1 Chips

APPL

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec maximus dui ac nibh maximus, placerat

Macbook Pro

APPL

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec maximus dui ac nibh maximus, placerat

AirPods

APPL

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec maximus dui ac nibh maximus, placerat

Safari Browser

APPL

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec maximus dui ac nibh maximus, placerat

Highest

Day

APPL 5.3% 192\$

AMZN 5.3% 192\$

Week

MSFT 5.3% 192\$

TESL 5.3% 192\$

Month

APPL 5.3% 192\$

AMD 5.3% 192\$

Lowest

Day

APPL 5.3% 192\$

AMD 5.3% 192\$

Week

APPL 5.3% 192\$

AMD 5.3% 192\$

Month

APPL 5.3% 192\$

AMD 5.3% 192\$

HomeStockExpenses & GrossBillsSettingsMr.Nobody

Stock Market

APPL 192\$ D 5.3% W 1.3% M 0.23% Y 5.3%

180\$ 500 Stock 2,000,000 \$

Buy

Price 192,123145\$

Volume 100

Account 1234 - 5678910 30,000 \$

APPL News

New iPhone

APPL

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New M1 Chips

APPL

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Macbook Pro

APPL

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AirPods

APPL

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Safari Browser

APPL

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Highest

Day

APPL 5.3% 192\$ AMZN 5.3% 192\$

Week

MSFT 5.3% 192\$ TESL 5.3% 192\$

Month

APPL 5.3% 192\$ AMD 5.3% 192\$

Lowest

Day

APPL 5.3% 192\$ AMD 5.3% 192\$

Week

APPL 5.3% 192\$ AMD 5.3% 192\$

Month

APPL 5.3% 192\$ AMD 5.3% 192\$

HomeStockExpenses & GrossBillsSettingsMr.Nobody

Stock Market

APPL 192\$ D 5.3% W 1.3% M 0.23% Y 5.3%

180\$ 500 Stock 2,000,000 \$

Order Buy Sell

Day 2.1% 192\$ 5.3% 180\$

Year 2.1% 192\$ 5.3% 180\$

Vol. 12,000,000 23,000,000,000

Related News

New iPhone

APPL

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By Alan Davies - Apple CTO

Highest

Day

APPL 5.3% 192\$ AMZN 5.3% 192\$

Week

MSFT 5.3% 192\$ TESL 5.3% 192\$

Month

APPL 5.3% 192\$ AMD 5.3% 192\$

Lowest

Day

APPL 5.3% 192\$ AMD 5.3% 192\$

Week

APPL 5.3% 192\$ AMD 5.3% 192\$

Month

APPL 5.3% 192\$ AMD 5.3% 192\$

