



## Bank Project

This is a Bank application to be developed using html, CSS and JavaScript, all required files are provided.

- index.html
  - style.css
  - logo.png
  - icon.png
  - prettierrc
  - script.js with all required data objects

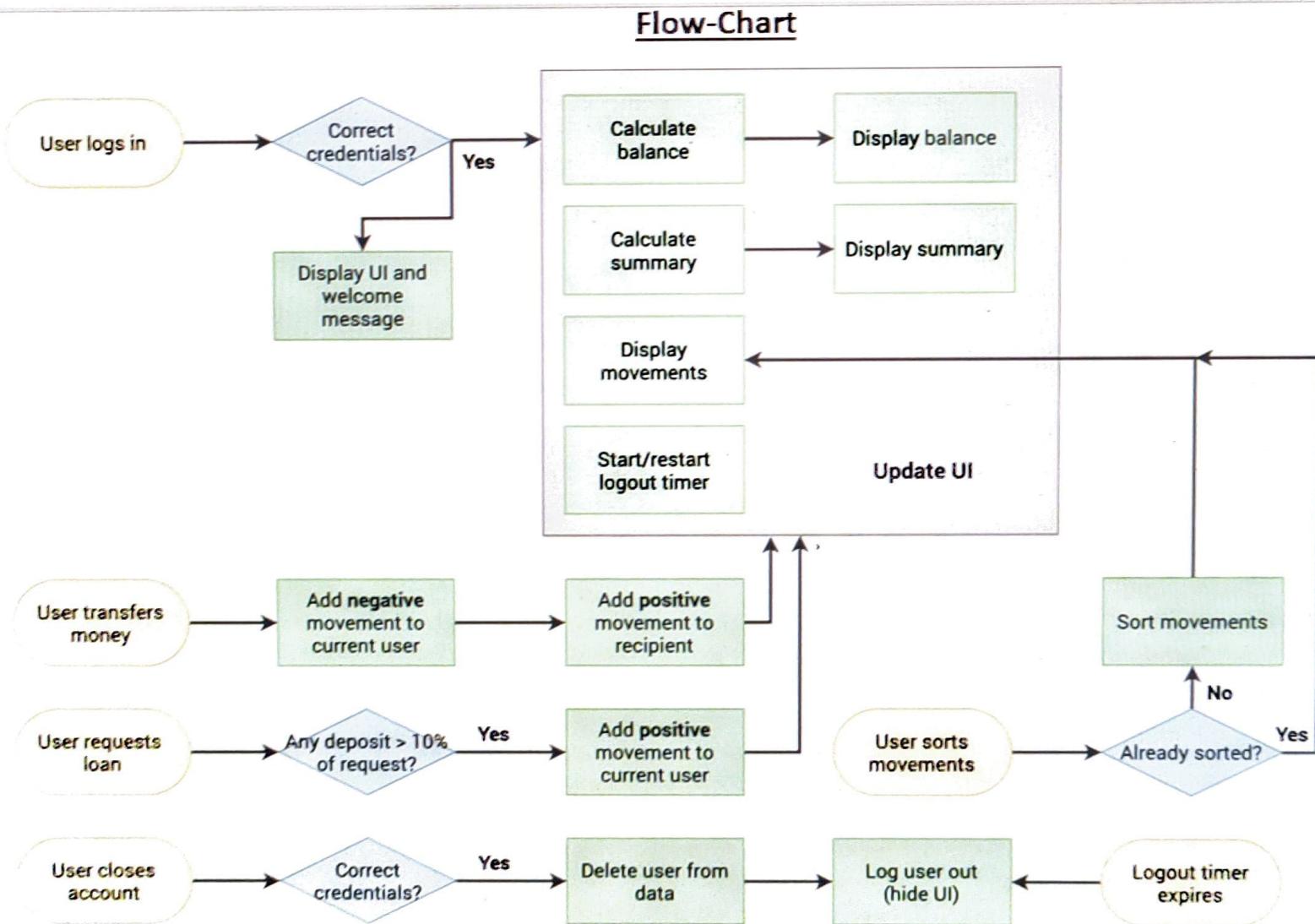
## Development tools required:

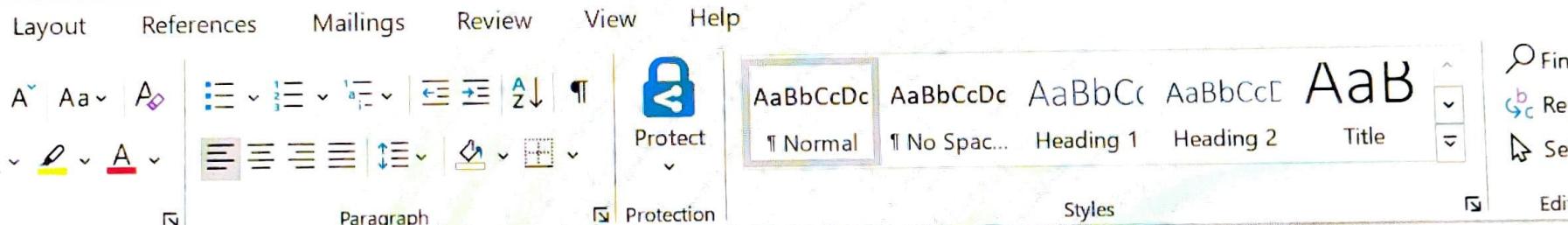
- VS Code
  - NodeJS or live-server extension
  - Latest Chrome browser

**It is highly recommended that you carefully see all the files and analyse html tags and style classes used.**

A flow-chart file **Bankist-flowchart.png**, use it to understand workflow of the application.

## Flow-Chart





## Your Tasks:

### Implement Log-in task:

(Hint: Login is form so to cancel default action 'Submit' use event.preventDefault() )

- User must enter username and pin to login
- Username: first letters of *owner's* property value of account i.e., owner: 'John Smith' then username will be 'js'
- Password is same as '*pin*' property value

```
const account1 = {  
    owner: 'Prashant Rastogi',  
    movements: [200, 455.23, -306.5, 25000, -642.21, -  
    133.9, 79.97, 1300],  
    interestRate: 1.2, // %  
    pin: 1111,  
  
    movementsDates: [  
        '2019-11-18T21:31:17.178Z',
```



```
    155.9, 75.97, 1500],  
    interestRate: 1.2, // %  
    pin: 1111,  
  
    movementsDates: [  
      '2019-11-18T21:31:17.178Z',  
      '2019-12-23T07:42:02.383Z',  
      '2020-01-28T09:15:04.904Z',  
      '2020-04-01T10:17:24.185Z',  
      '2020-05-08T14:11:59.604Z',  
      '2020-05-27T17:01:17.194Z',  
      '2020-07-11T23:36:17.929Z',  
      '2020-07-12T10:51:36.790Z'  
    ],  
    currency: 'EUR',  
    locale: 'de-DE', // de-DE  
};
```

Username: p

Password: 1111

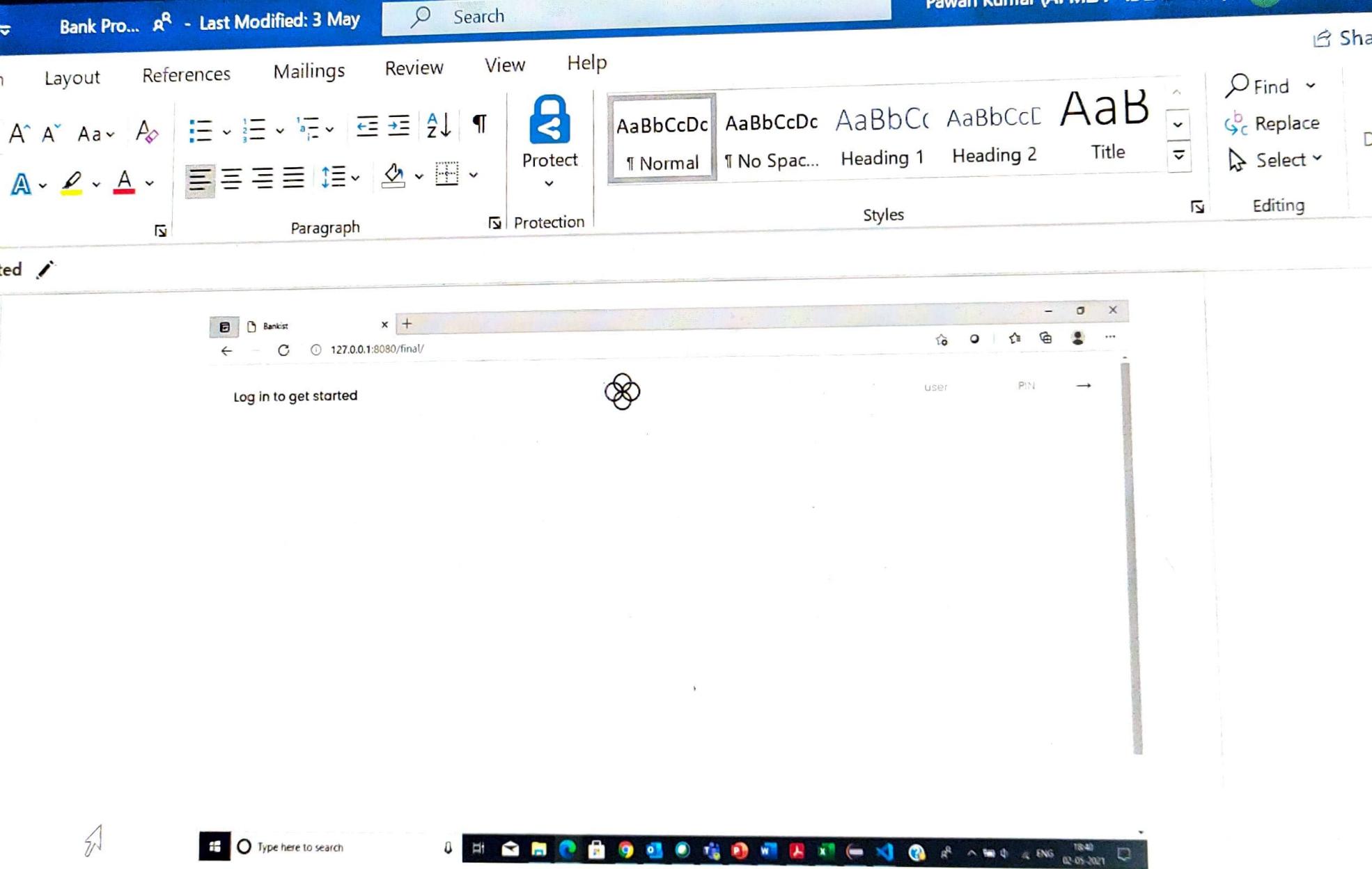


Figure 1.1 Login Screen

After successful login

- default account details should be displayed. (Hint: Check CSS and Use `x.style.opacity=100`)
- Welcome message should be displayed with username,

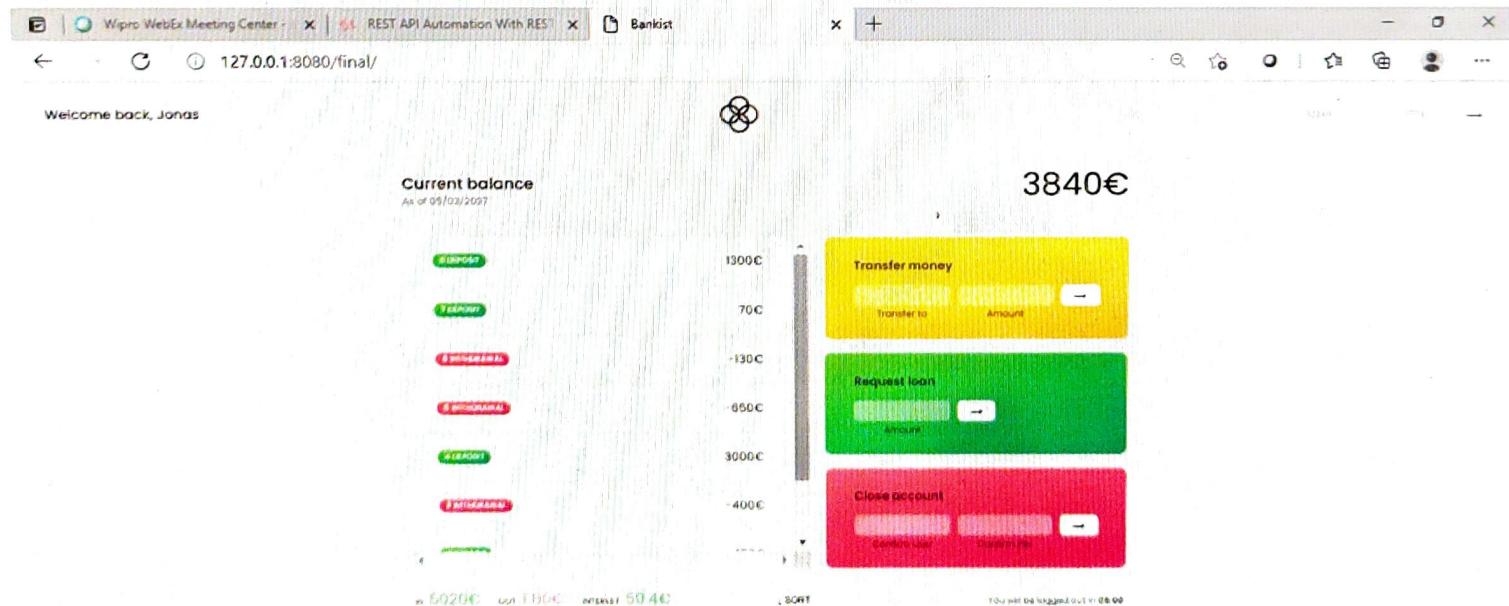


## After successful login

- default account details should be displayed. (Hint: Check CSS and Use `x.style.opacity=100`)
  - Welcome message should be displayed with username.

### **Implement transaction display:**

- Use movements array to display all transactions (Hint: Negative value is 'Withdraw and rest are deposit')





### Implement balance display:

- Total balance should be displayed with currency sign.

### Implement summary display:

- All deposit should be displayed as 'In'
- All withdrew should be displayed as 'Out'
- Sum of interest amount on all deposits should be displayed as 'Interest'

### Implement transfer Money: (Hint: It is a form so to cancel default action 'Submit' use `event.preventDefault()`)

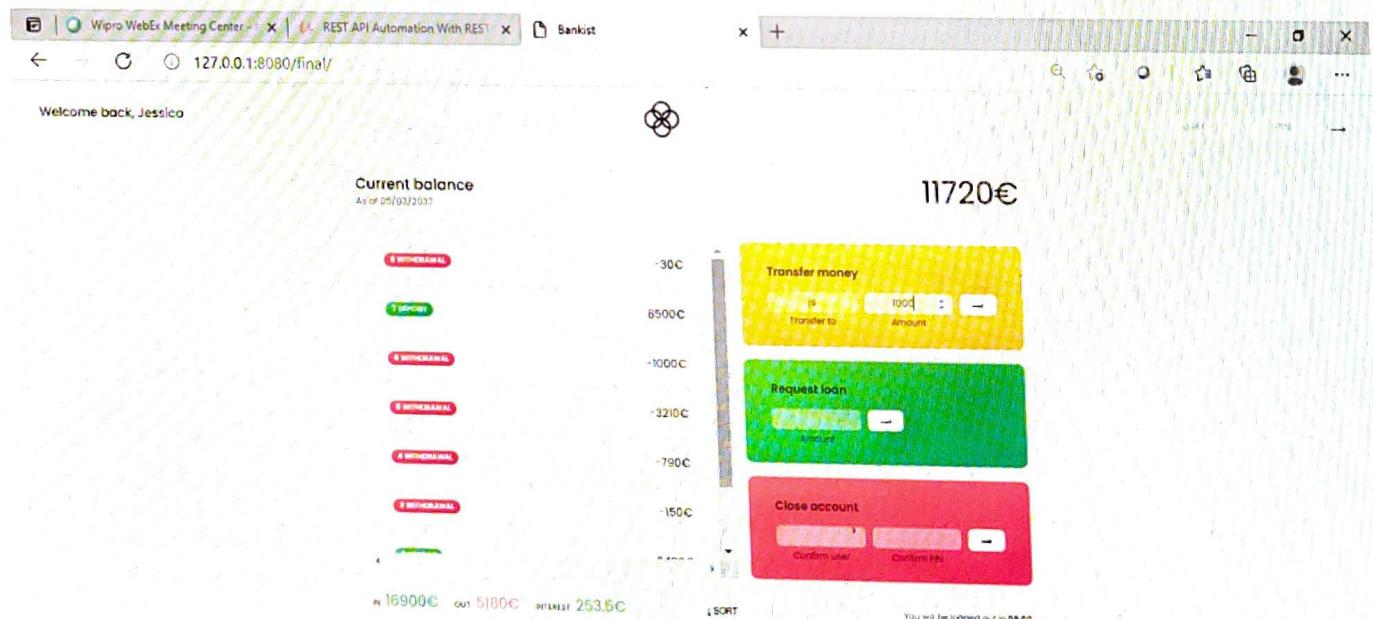
- Conditions
  - o Transfer amount should be more than 0.
  - o Transfer amount should be less or equals to total balance.
  - o Currently logged-in user can't transfer to himself/herself).
  - o Receiver's account must exist.
- After successful transfer amount should appear in movements display section as withdraw for current user.
- Same amount should appear in receiver's account as deposit.
- Total balance and summary section should be updated accordingly.

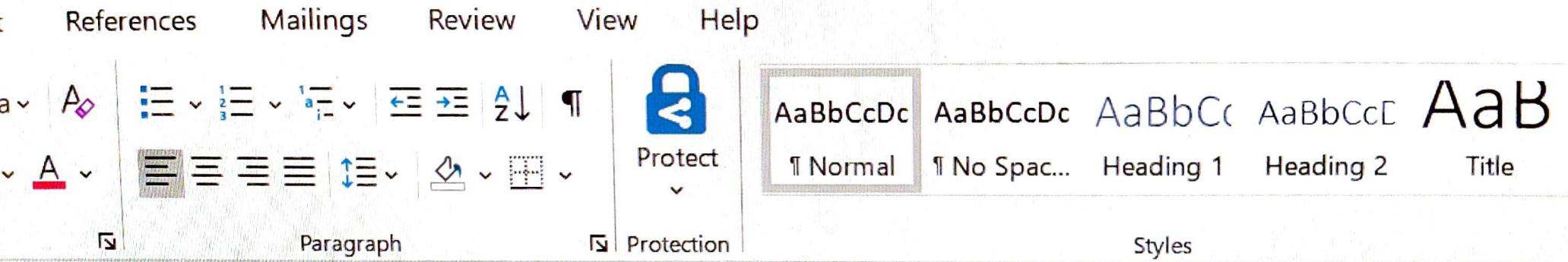




The screenshot shows the Microsoft Word ribbon with several tabs visible: Layout, References, Mailings, Review, View, and Help. The Home tab is active. The ribbon includes a variety of icons for text and paragraph styling, as well as protection features like 'Protect' and 'Protection'.

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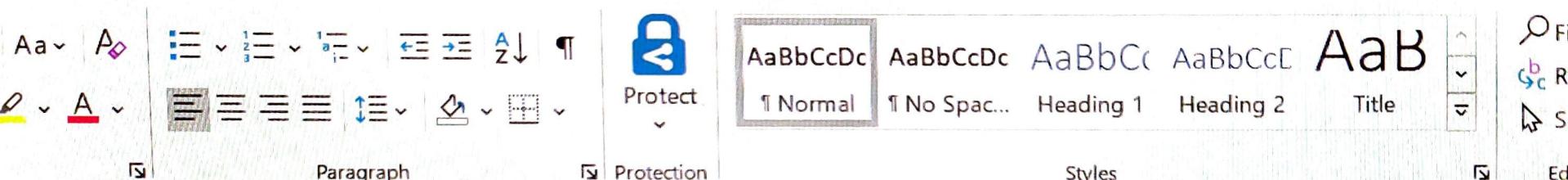




Screenshot of a web-based banking application. The URL is 127.0.0.1:8080/final/. The page displays a current balance of 10720€ as of 05/05/2021. It shows a transaction history with several entries:

Type	Amount	Balance
Transfer	-1000€	9720€
Transfer	-30€	9717€
Deposit	+6500€	16217€
Transfer	-1000€	15217€
Withdrawal	-3210€	12007€
Transfer	-790€	11217€

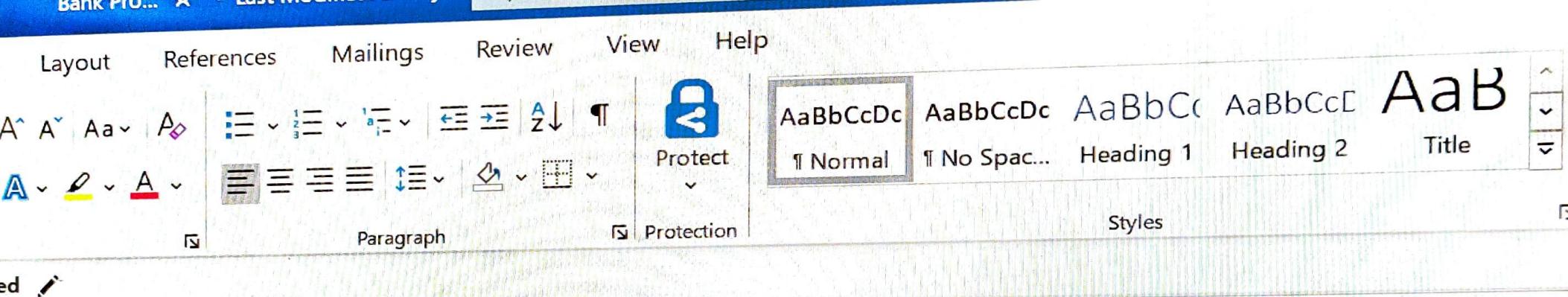
The bottom of the screen shows a summary: IN 16900€, OUT 6180€, INTEREST 253.5€. There are buttons for Transfer money, Request loan, and Close account. The Windows taskbar at the bottom shows various open applications like File Explorer, Google Chrome, and Microsoft Word.



A screenshot of a web-based banking application. At the top, it says 'Welcome back, Jonas'. Below that, the 'Current balance' is listed as 4840€ as of 05/02/2021. On the left, there's a vertical menu with buttons for 'TRANSFER', 'DEPOSIT', 'WITHDRAWAL', 'WITHDRAWAL', 'SERVICES', and 'BALANCE'. In the center, there are three main buttons: 'Transfer money', 'Request loan', and 'Close account'. At the bottom, it shows a summary of transactions: IN 6020€ OUT 1160€ INTEREST 71.4€. The bottom of the screen shows a Windows taskbar with various icons and the date/time: 02-05-2021 21:36.

### Implementing Loan utility:

(Hint: It is a form so to cancel default action 'Submit' use `event.preventDefault()`)



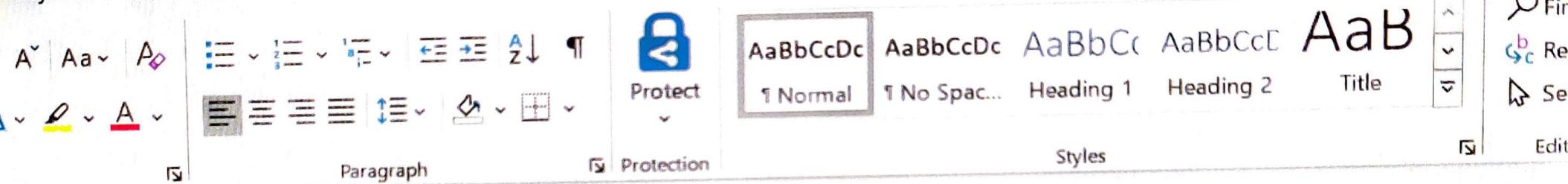
## Implementing Loan utility:

(Hint: It is a form so to cancel default action 'Submit' use `event.preventDefault()` )

- Loan amount should be more than 0.

## Sensitivity: Internal & Restricted

- For approval of loan, any deposit amount in user account should be more than 10 % of request loan amount
    - o Ex: if loan amount = 100  
then any deposit amount should be greater than 10% of 100 i.e., 10
  - If loan is approved amount should be updated in all, movements, total balance and summary



- For approval of loan, any deposit amount in user account should be more than 10 % of request loan amount
  - o Ex: if loan amount = 100  
then any deposit amount should be greater than 10% of 100 i.e., 10
- If loan is approved amount should be updated in all, movements, total balance and summary sections.

#### **Implement close account:**

(Hint: It is also a form so to cancel default action 'Submit' use `event.preventDefault()` )

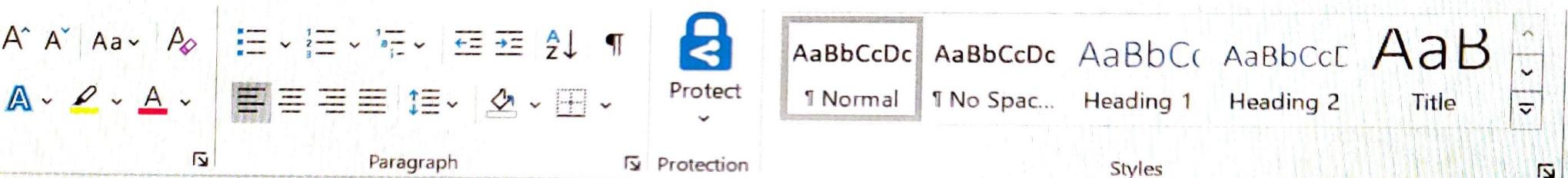
- User credential should be verified before closing the account.
- After successful request account details should disappear (use `x.style.opacity=0`)
- Welcome message should be changed to 'Bye {username}! Hope to See you Again'

#### **Implementing countdown timer:**

- Once user login, countdown for 5 mins should start and it should be displayed at the bottom of screen.
- After 5 mins account details should disappear and user should be logged out.

#### **Implementing Date:**

- At login current date and time should be displayed.
- Every transaction should display date of its occurrence.



A screenshot of a web-based banking application. At the top, it says 'Welcome back, Jessica'. Below that is a 'Current balance' section showing '\$11,720.00' as of 5/2/2021 9:58 AM. To the left is a transaction history table:

8 WITHDRAWAL	7/26/2020	-\$30.00
7 DEPOSIT	6/24/2020	\$8,500.00
6 WITHDRAWAL	4/10/2020	-\$1,000.00
8 WITHDRAWAL	2/5/2020	-\$3,210.00
4 WITHDRAWAL	1/25/2020	-\$790.00
3 WITHDRAWAL	1/25/2019	-\$150.00
2 DEPOSIT	1/30/2019	\$3,400.00

IN \$16,900.00 OUT \$5,180.00 INTEREST \$253.50

Transfer money

Transfer to  Amount

Request loan

Amount

Close account

Confirm user  Confirm req

You will be logged out in 01:43



### Implementing Sort:

- Sort is a toggle button, if clicked all transaction should be sorted on amount.