

# 1. Deliverable #1: The Project Plan

## 1. Scope Statement

### 1.1 Description

There are many popular financial applications like PayPal, Venmo or CashApp. This web-program can help facilitate easy online payments between customers, and it can also provide basic daily banking services for any bank branches, like cashier and manager portals.

### 1.2 Operating Requirements

The app can be accessed by using a web browser on their home computer, like Chrome, Firefox, or Safari. It will require an internet connection. It can also be accessed by using any type of a smart device with internet connection and a functional browser. It does not constitute a critical system.

### 1.3 Security Considerations

Since it is a financial app handles the transfer of fiscal assets, security of transmitted information is paramount. Standard web security features, such as HTTPS and SSL, will be employed.

### 1.4 Programming Languages & Technologies

For the programming languages, the typical technologies of HTML, CSS & JavaScript being used. For the back-end, SQL-based database which is MySQL just being used.

### 1.5 Development

GitHub will be used to track development, and an incremental process will likely be used to guide development. Milestones will be used to ensure the most important features are developed and tested first.

## 2. Org Chart

### 2.1 Batuhan Zeybek

Documentation, Coding.

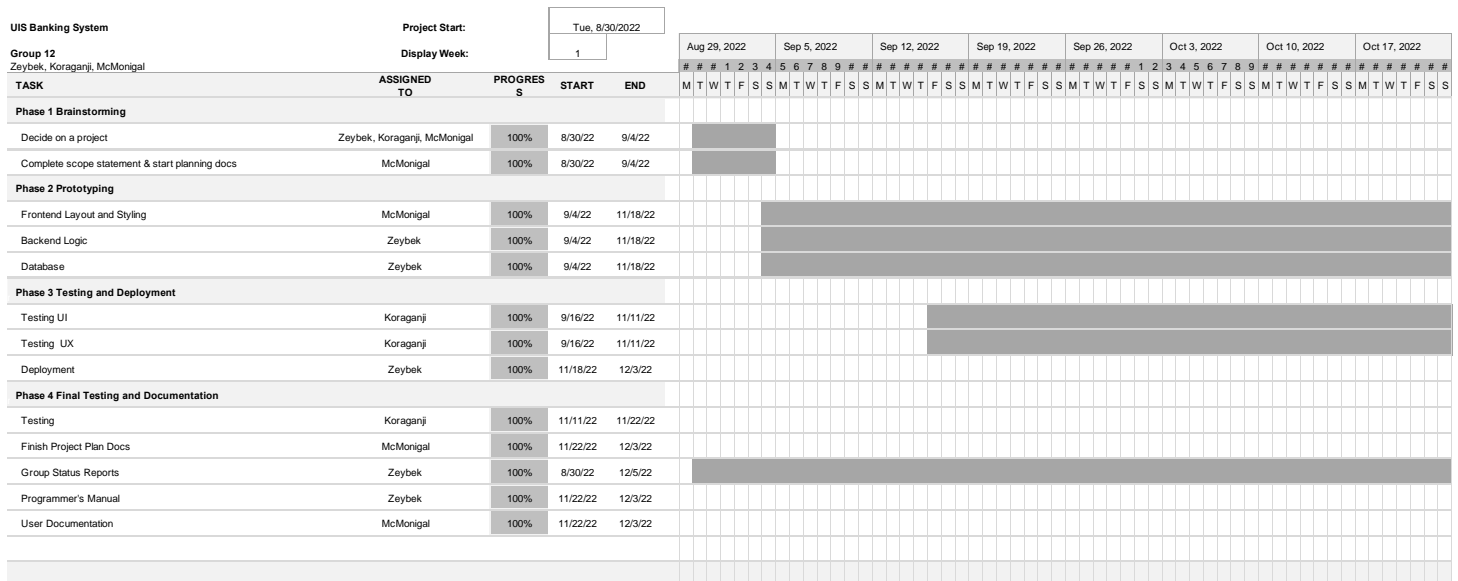
### 2.2 Keerthi Koraganji

Testing.

### 2.3 Shane McMonigal

Documentation, Coding.

## 3. Gantt Chart



## 4. Tools and Standards

### 4.1 Programming Languages

PHP, HTML, CSS, JS.

#### 4.2 Editors/IDEs

Visual Studio Code, WebStorm, Visual Basic, Replit.

#### 4.3 Technologies & Frameworks

Bootstrap, MySQL, XAMPP, Netlify, Hugo.

#### 4.4 Design Tools

Microsoft Word, Microsoft Excel, Figma.

### 5. Configuration Management Plan

#### 5.1 Git & GitHub

The version control system Git, along with the website GitHub will allow collaborative work on project source code. We can push our work as we complete it to GitHub, and this allows other members to pull these changes into their own local environments as soon as possible.

## 2. Deliverable #2: The Programmer's Manual

### 1. Requirements Documentation

#### 1. Introduction

##### 1.1 Purpose of the requirements document.

The purpose of this document provides information about this web-program for everyone involved in its creation, deployment and use for developing purposes.

##### 1.2 Scope of this web program.

This web program can help facilitate easy online payments between customers, and it can provide basic daily banking services for any bank branches, like cashier and manager portals.

##### 1.3 Definitions, acronyms, and abbreviations

**User/Holder:** Bank customer, who has access to their balance and send/receive money, create a ticket, view statements, and view bank's notifications/notices.

**Manager:** Bank manager, who has access to send notices to bank customers, track tickets, and create new customer accounts and new cashiers.

**Cashier/Staff:** Bank worker, who has only access to make transactions.

**Account No.:** Unique account numbers.

**Branch:** Bank's branch name.

**Branch Code:** Bank's unique branch code numbers.

**Account Type:** Account type, such as checking or saving.

**Checking:** Customer's account type which does not have any unique features.

**Saving:** Customer's account type which does not have any unique features.

**Statements:** Customer's transaction history.

**Tickets:** Customer's help declaration.

**Notifications/Notice:** Bank's notice to customers/ customer.

**Withdraw:** Drawing away money from an account, only the cashier has access.

**Deposit:** Depositing the money to an account, only the cashier has access.

**Balance:** Customer's total money in their account.

#### 2. General Description

##### 2.1 Product perspective

This web program can help facilitate easy online payments between customers, and it can provide basic daily banking services for any bank branches, like cashier and manager portals.

##### 2.2 Product functions

This web program will help bank customers to send money to each other instantly. It will help bank managers to create announcements, help customer's problems or questions, and add new staff/cashier members. It will also help bank staff/cashiers to process customer's demands in a physical branch, such as depositing money and withdrawing money from their accounts.

##### 2.3 User characteristics

The end users will be banks and their customers.

##### 2.4 General constraints

It is not applicable; we do not have any bugs and the web-based project is completely functional.

**2.5 Assumptions and dependencies:** [www.github.com/batuzk/UIS-Bank/blob/main/README.md](https://www.github.com/batuzk/UIS-Bank/blob/main/README.md)

Program doesn't require installation since it is a web-based application. It will be ready to use immediately. If, end user wants to deploy to another hosting provider, can see the README.md on GitHub.

### 3. Specific Requirements

#### 3.1 Customer/User

1.0.0 The customer/user should provide an email address and password on the login page.

1.1.0 Customer/user should be allowed to send money after input account number of receiver.

1.1.1 Amount of the money should be provided.

1.2.0 Customer/user should be allowed to send help tickets after text inputs.

#### 3.2 Manager

2.0.0 Manager should provide an email address and password on the login page.

2.1.0 Manager should be allowed to send notices after text input for specific customers.

2.2.0 Manager should be allowed to create new staff/cashiers after providing new email and password details.

2.3.0 Manager should be allowed to create new customers after providing name, email, password, address, branch, source of income, phone, and other required input details.

#### 3.3 Cashier

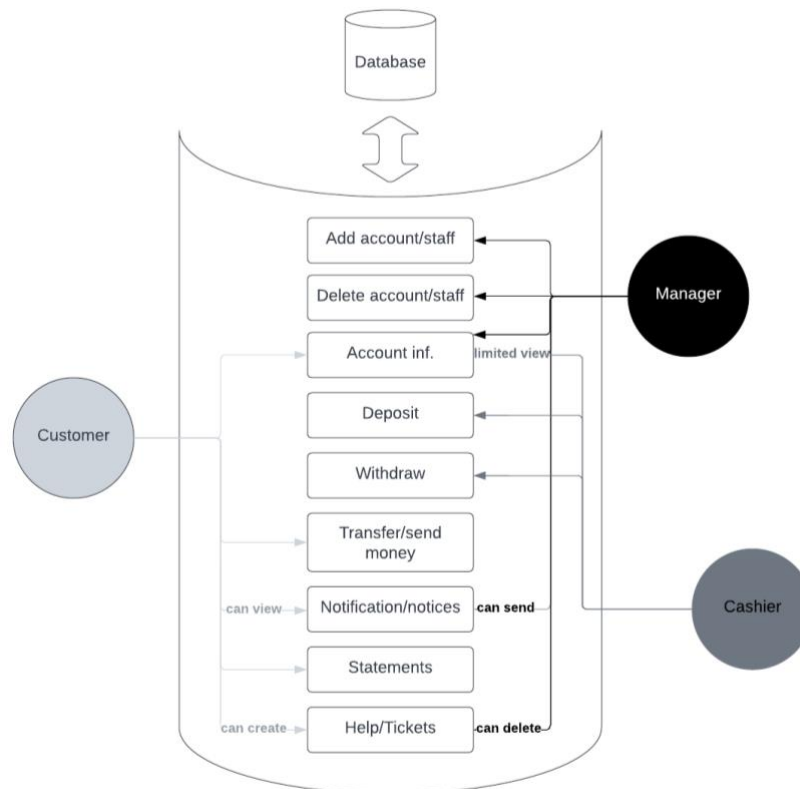
3.0.0 Cashier should provide an email address and password on the login page.

3.1.0 Cashier should provide a customer account number for making transactions.

3.1.1 Cashier should provide a transaction number, and amount number for making deposit or withdrawal transaction for a customer's needs.

## 2. Design Documentation

### 1. Architecture diagrams



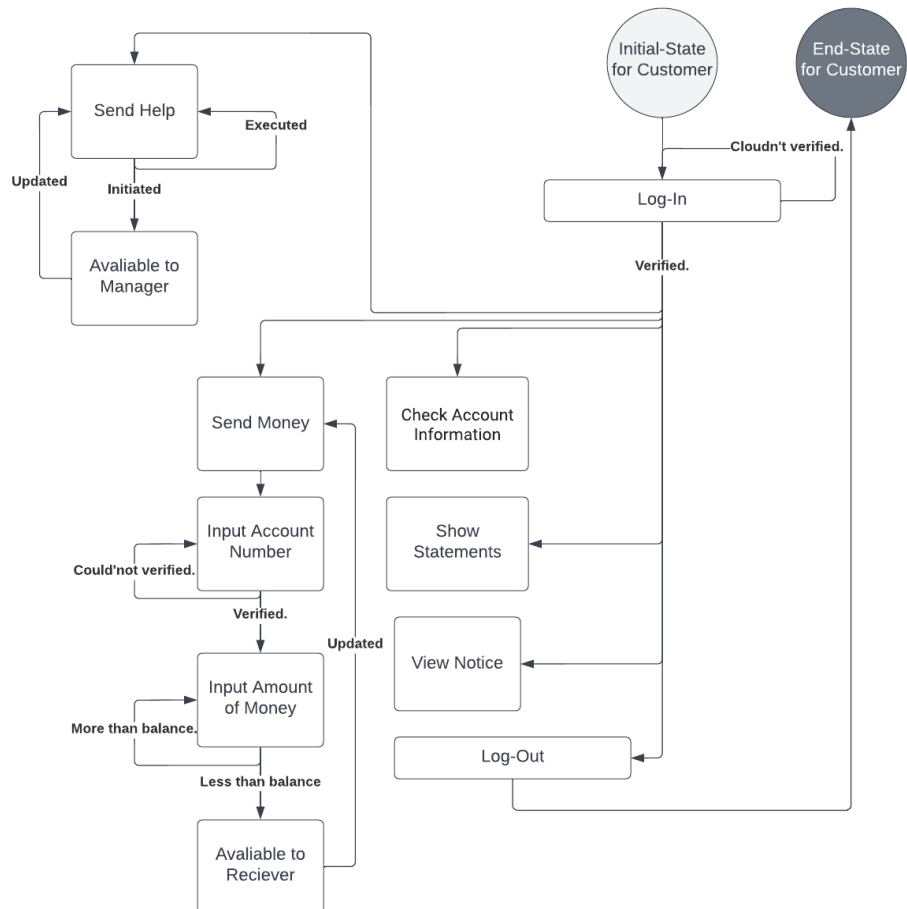
### 2. Pseudocode

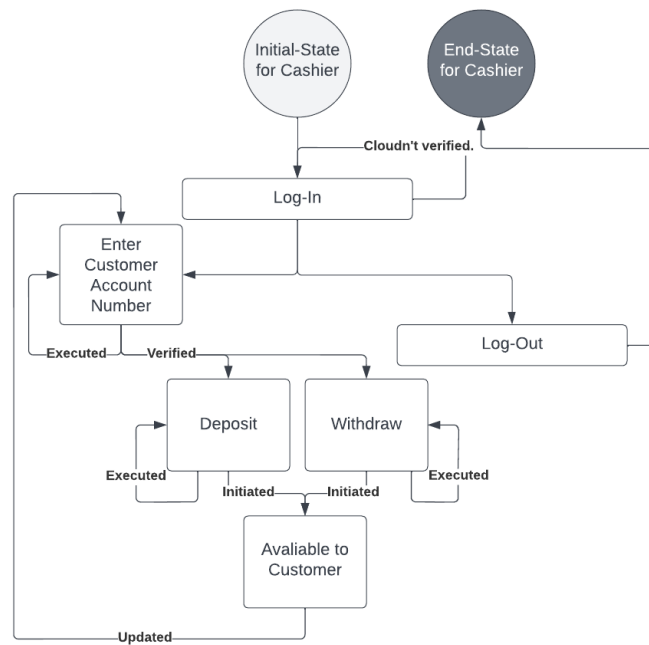
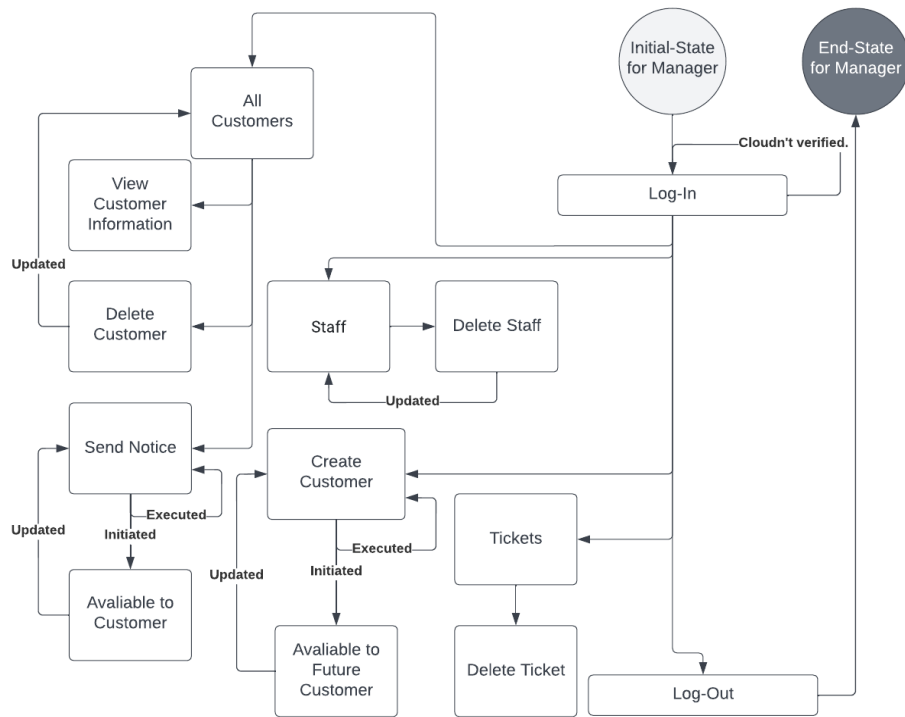
We will pass it.

### 3. Decision Tables

Conditions	1	2	3
User/Customer	1	0	0
Cashier	0	1	0
Manager	0	0	1
Actions	1	2	3
Add account/staff	no access	no access	edit
Delete account/staff	no access	no access	edit
Account information	view only	view only(limited)	edit
Deposit	no access	edit	no access
Withdraw	no access	edit	no access
Transfer/send money	edit	no access	no access
Notification/notices	view only	no access	edit
Statements	view only	no access	no access
Help/tickets	edit(limited)	no access	edit

### 4. Control Diagrams





#### 4. Testing Documentation

Test Case #	Requirement Tested	Rationale	Input(s)	Expected Output	Pass/Fail
1	1.0.0	The customer/user should provide an email address and password on the login page.	User input 'email' and 'password'.	Customer main portal should be displayed.	Pass
2	1.1.0	Customer/user should be allowed to send money after providing the account number of the receiver.	User input 'account number'	Receiver's details should be displayed and an empty box for input which will contain an amount of money.	Pass
3	1.1.1	Customer/user should be allowed to send money after '1.1.0' requirement passed successfully and provide an amount of money.	User input 'amount of money'	Transfer should be completed and should be displayed on 'statements' and under the form. Receiver will receive the same amount of money.	Pass
4	1.2.0	Customer/user should be allowed to send help tickets after text inputs.	User input 'message'	'Successfully send.' message should be displayed. Manager should be able to check the ticket after the input.	Pass
5	2.0.0	The manager should provide an email address and password on the login page.	Manager input 'email' and 'password'.	Manager main portal should be displayed.	Pass
6	2.1.0	Manager should be allowed to send notices after text input for specific customers.	Manager input 'message'.	'Successfully send.' message should be displayed. The customer should be able to check the notice after the input.	Pass
7	2.2.0	Manager should be allowed to create and delete staff/cashiers after providing new email and password details for creation.	Manager input 'email' and 'password' for account creation.	'Successfully created.' message should be displayed. The new staff/cashier should be able to sign in.	Pass
8	2.3.0	Manager should be allowed to create new customers after providing name, email, password, address, branch, source of income, phone, and other required input details.	Manager input 'name', 'email', 'password', 'address', 'branch', 'source of income', 'phone' and other required input details.	'Successfully created.' message should be displayed. The new customer should be able to sign in.	Pass
9	3.0.0	Cashier should provide an email address and password on the login page.	Cashier input 'email' and 'password'.	Cashier main portal should be displayed.	Pass
10	3.1.0	Cashier should provide a customer account number for making transactions.	Cashier input 'account number'	Customer information should be displayed and 'deposit' and 'withdraw' functions should be available.	Pass
11	3.1.1	Cashier should provide a transaction number, and amount number for making	Cashier input 'ticket number' and amount of money to deposit or withdraw.	Transactions should be successfully done, and the cashier should be	Pass/Pass

		deposit or withdrawal transactions for a customer's needs.		directed to the main portal of the cashier.	
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## 5. Known Bugs and Issues

It is not applicable; we do not have any bugs and the web-based project is completely functional.

## 3. Deliverable #3: The User Documentation

### 1. User's Manual

#### 1.1 Logging in as Customer

- 1.1.1 Click the "User Login" button.
- 1.1.2 Enter your credentials.
- 1.1.3 Click "Enter".

#### 1.2 Viewing Your Account

Click the "Account" tab on the top of the screen or on the "Home" page.

Account Information	
Account No.	1669940126
Branch	Springfield
Branch Code	100101
Account Type	checking
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Here you will be able to view information about your account, including:

- "Account Number" used for sending other users' money, or other transaction/maintain purposes.
- "Branch", that your account belongs to.
- "Branch Code", for internal purposes.
- "Account Type", to specify if your account is a savings or checking account.

#### 1.3 Checking Statements

Click the "Statements" tab on the top of the screen to view recent transactions.

All Transactions
Transfer have been made for \$150 from your account at 2022-12-05 03:58:09 in account no.1670141857
Transfer have been made for \$250 from your account at 2022-12-04 18:24:15 in account no.1670141857
Transfer have been made for \$100 from your account at 2022-12-04 10:03:03 in account no.1669940458
Transfer have been made for \$100 from your account at 2022-12-04 10:01:07 in account no.1670141857
Transfer have been made for \$900 from your account at 2022-12-02 00:24:47 in account no.1669940458
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Most recent transactions will appear at the top of the list, and each includes information about the dollar amount transferred, date completed, and the account number from where the money originated.

#### 1.4 Sending Money

Click on the “Send” tab on the top of the screen or the button on the “Home” page.

Funds Transfer

New Transfer

Get Account Info

Transfer History

Transfer have been made for \$150 from your account at 2022-12-05 03:58:09 in account no.1670141857

Transfer have been made for \$250 from your account at 2022-12-04 18:24:15 in account no.1670141857

Transfer have been made for \$100 from your account at 2022-12-04 10:03:03 in account no.1669940458

Transfer have been made for \$100 from your account at 2022-12-04 10:01:07 in account no.1670141857

Transfer have been made for \$900 from your account at 2022-12-02 00:24:47 in account no.1669940458

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Your most recent transactions will be listed here as well, and you can send other users' money by entering the account number of the user you wish to send money to. The account's information will be shown for verification, and then you can send that account an amount for transfer.

#### 1.5 Other Areas

- Clicking the “Mail” icon in the top right will display notices for your account from the bank.
- Clicking the “Question” icon will display a help card that will allow you to send support tickets to bank staff for assistance.
- Clicking the “Exit” icon will log you out of your account.

#### 2.1 Login in as Managers

2.1.1 Click the “Manager Login” button.

2.1.2 Enter your credentials.

2.1.3 Click “Enter”.

#### 2.2 Managing Customer Accounts

On the “Home” screen, you will see a list of all current customer accounts. Here, you can view information about their account, send the account a notice or delete the account from the system.

All Customer Accounts									
#	Holder Name	Account No.	Branch Name	Current Balance	Account type	Contact			
1	Batuha Zeybek	1669940126	Springfield	\$8600	checking	2179000000	View	Send Notice	Delete
2	Shane X.	1669940458	Springfield #2	\$6600	saving	2179000002	View	Send Notice	Delete
3	Keerthi	1670141857	Springfield #2	\$2950	checking	2179000003	View	Send Notice	Delete

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## 2.3 Managing Staff Accounts

Click on the “Staff” tab on the top of the screen.

All Staff Accounts				<a href="#">Add New Account</a>
Email	Password	Account Type		
cashier@uisbank.com	cashier	cashier	<a href="#">Delete</a>	

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Here you can manage employee accounts by viewing their information or deleting their login.

## 2.4 Adding New Customer Accounts

Click on the “Create Customer” tab on the top of the screen.

New Account Form			
Name	<input type="text"/>		
Account Number	1670254303	Account Type	Saving
City	<input type="text"/>	Address	<input type="text"/>
Email	<input type="text"/>	Password	<input type="text"/>
Deposit	<input type="text"/>	Source of Income	<input type="text"/>
Contact Number	<input type="text"/>	Branch	Please Select..
<a href="#">Save Account</a> <a href="#">Reset</a>			

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Here you will be able to take down customer information and create a new account for them.

## 2.5 Responding to Help Requests

Customers can send managers help tickets. Click on the “Tickets” tab on the top of the screen to view them.

Ticket from Account Holder				
From	Account No.	Contact	Message	
Keerthi	1670141857	2179000003	I want to learn how to send money to my family. Can you guys help me? Thank you!	<a href="#">Delete</a>
Batuha Zeybek	1669940126	2179000000	Hello! I want to set up a saving account. Can you guys help me?	<a href="#">Delete</a>
Batuha Zeybek	1669940126	2179000000	How can I see my banking details?	<a href="#">Delete</a>

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A list of open tickets will be shown. You can manage your tickets by viewing ticket information or deleting resolved tickets.

### 3.1 Login in as Cashier

3.1.1 Click the “Cashier Login” button.

3.1.2 Enter your credentials.

3.1.3 Click “Enter”.

### 3.2 Performing Transactions on Behalf of a User

On the “Home” screen, you will see a field for entering a customer’s account number, which will allow you to perform “Deposits” and “Withdrawals” for them.

Account Information

Enter Account Number

Enter account number.

Get Account Info

Account No.	Transaction Process.
1670141857	Write Check Number
Account Holder Name.	Write Amount for withdraw
Keerthi	Withdraw
Account Holder Bank Name.	Write Check Number
UIS Bank	Write Amount for deposit
Bank Balance	Deposit
2950	

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## 2. Accessing the Website (Installation Instructions)

Program doesn't require installation since it is a web-based application. It will be ready to use immediately. If, end user wants to deploy to another hosting provider, can see the README.md on GitHub.

You can access the UIS Bank website by visiting: [www.uishomework.online](http://www.uishomework.online)

You can access the README.md on GitHub by visiting: [www.github.com/batuzk/UIS-Bank/blob/main/README.md](https://www.github.com/batuzk/UIS-Bank/blob/main/README.md)