## Meeting Notes 08/03/2023

Discussed functionalities – Create an account, Deposit/Withdraw/Transfer money, View account details.

User Story 1 – Margaret recently came into a large sum of money and would like to keep it safe. She doesn’t currently have a bank and would like to open an account. She is presented with a page with “Create an Account” or “Login”.

As she doesn’t already have an account, she will use the “Create an Account” option, clicking this will present a form to fill out including a username, password and if the account is for personal or business use, where she will choose personal use. Once completed she will be presented with the “Login” screen, where she will enter in her login details and have access to her account.

After accessing the account she will have options including “Deposit”, “Withdraw” and “View Account Details”.

When clicking “Deposit”, a screen will be presented that will allow for Margaret to input the amount of money she wants to put into the account.

When clicking “Withdraw”, a screen will be presented that will allow for Margaret to input the amount of money she would like to remove from the account. The balance for the account will also appear.

When clicking “View Account Details”, a page will appear that will display some account details such as the ID and balance.

Task Cards for User Story 1 –

“Create an Account” – the specified details would need to be checked against the existing database to see if the account already exists, this would have to be the ID which will have to be unique. If the ID already exists, an error will throw asking for a different ID, if the ID does not exist, the account can be created, and the information is submitted to the database.

“Deposit” – the specified amount has to be a valid number, if the number within the box is not valid, then the amount will not be added to the existing total.

“Withdraw” – the amount specified within the withdraw must be within the account. The system will check if the account has more or equal the amount of money requested. If the requested amount is outside of the range within the account, an error is thrown. If the amount requested is valid, the money is taken from the account.

“View account details” – Information about the account is retrieved from the database and the information is shown.

User Story 2 - Jim owns a small shop which employs workers in his local town however, Jim would like to expand to the surrounding area by opening new shops. To do so Jim would need to open a business account from which he could transfer funds between business accounts of the two stores and his personal account.

Jim already has an account with the bank, Jim will choose the log in option, using his username and password he can gain access to his funds. Jim, will be presented with a few options upon logging in, these being “Accounts”, “Deposit”, “Withdraw”, and “Transfer”.

Using the “Accounts” option Jim can view the balance of every account he may have with the bank, similarly he can view transactions to and from each account.

Jim will primarily be using the “Transfer” option for his business to send money between accounts and his employees. By selecting the transfer option Jim can see how much money he has in the account with an option to input a specified amount of money he wants to move. Similarly, Jim can also specify which account he wishes to transfer money to and from whether it be one of his own accounts or an employee by using the username.

Task Cards for User Story 2 –

“Business Account Creation” – Upon creating a business account, it is required that there is a parent name for the account to identify the owner of all child account, therefore the same person can have access to all accounts. Therefore the parent and child name must all be unique, so the system will check the inputted values for these attributes against the database and allow for the account to be created if all are unique.

“Accounts” – Using the parents ID, the system will find all accounts related to the parent ID and display their balance information.

“Transfer” – A username will be inputted that will need to be tested against the database, if the username is found and the account is valid then that section of the transfer is possible. The input value for the amount to be transferred must also be check against the database to see if the account has the funds necessary to facilitate the transaction, if the funds are valid then the transfer is possible.

To do – Make Trello Board, Design both System and GUI designs.