**User Stories**

**Sprint 1**

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| **User Story** | **Description** | **Tasks** | **Acceptance Criteria** |
| Log In | As an admin, I want to be able to log in, so that I am able to view client details and update their verification status.  As a client, I want to be able to log in, so that I can view my details and use the functionality provided by the application. | Design UI  Extract data from input fields  Verify Admin details  Display appropriate message  Extract data from input fields  Verify Client details  Display appropriate message | * Given that I am the admin, when I enter valid details then I should be able to log in successfully and proceed to the next page. * Given that I am the admin, when I enter invalid details then I should be notified that my details were invalid and that the log in process failed. * Given that I am the client, when I enter valid details then I should be able to log in successfully and proceed to the next page. * Given that I am the client, when I enter invalid details then I should be notified that my details were invalid and that the log in process failed. |
| Admin Registration | As an admin, I want to be able to register, so that I can have access to administrative functions in the application. | Design UI  Extract data from input fields  Validate administrator details and secret key  Encryption  PHP files  Write to database  Display appropriate message | * Given that I am the admin, when I enter valid details, then I should be able to register successfully and proceed to the next screen. * Given that I am the admin, when I enter invalid details, then I should be notified that my details were invalid and that the registration process failed. |
| Client Registration | As a client, I want to be able to register, so that I can benefit from the client functionalities in the application. | Design UI  Extract data from input fields  Validate client details  Encryption  PHP files  Write to database  Display appropriate message | * Given that I am the client, when I enter valid details then I should be able to register successfully and proceed to the next screen. * Given that I am the client, when I enter invalid details, then I should be notified that my details were invalid and that the registration process failed. |

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| **User Story** | **Description** | **Tasks** | **Acceptance Criteria** |
| Client – View Details | As a client, I want to be able to view my details and my registration status, so that I know how to proceed. | Design UI  Search for client in database  Read client details  Display client details | * Given that I am the client, when I request to view my details then I should be able to view my details and registration status as either “pending”, “accepted” or “rejected.” |
| Admin – View verification list | As an admin, I want to be able to view a vertical list of users that submitted registration applications for verification, so that I can change their statuses. | Design UI  Extract data from database (PHP file)  Display data in a vertical list | * Given that I am the admin, when I log in then I should be able to see a vertical list of users that submitted registration applications for verification. |

**Sprint 2**

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| **User Story** | **Description** | **Tasks** | **Acceptance Criteria** |
| Admin - View customer details | As an admin, I want to be able to view a client’s details, so that I can make a decision about what their verification status should be changed to. | Design UI  PHP file  HTTP request  Extract data  Display data | * Given that I am the admin, when I request to view a client’s details then I should be able to see all the details of the selected client. |
| Admin - Accept/reject registration (Verify client) | As an admin, I want to be able to accept or reject a registration application, so that I can change a client’s verification status. | Design UI  HTTP request  PHP file  Real time update  Display appropriate message | * Given that I am the admin, when I request to authorise a registration application then I should be able to choose to either “Accept” or “Reject” a registration application. |
| Customer - View bank account options | As a customer, I want to be able to view the different bank account options available to me, so that I can decide which one I want to open. | Design UI  PHP file  HTTP request  Display data | * Given that I am the client, when I request to view bank account options then I should be able to see the different bank account options available to me. |
| Client - View Account Screen | As a client, I want to be able to view my bank account details, so that I know how much money is available to me. | Design UI  PHP file  HTTP request  Display data  Error Handling | If the user has an active account:   * Given that I am the client, when I log in successfully then I should be able to see my name, the type of account I have and the amount of money available in the account.   If user does not have an active account:  See: Client – display details user story |

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| **User Story** | **Description** | **Tasks** | **Acceptance Criteria** |
| Client - Add Account | As a client, I want to be able to create a new account, so that I am able to enjoy the benefits of that account type. | Design UI  PHP file  HTTP request | * Given that I am the client, when I request to create an account then I am notified by the display of a success message that the account was created. |

**Sprint 3**

**Note: A tab navigator was included in this sprint upon request but is not classified as an official user story. The incorporation of user stories into the tab navigator can be classified as a user story.**

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| **User Story** | **Description** | **Tasks** | **Acceptance Criteria** |
| Timeline of user activity | As a client, I want to be able to view my timeline, so that I am able to keep track of my activity on the application. | Design UI  Create table in database  PHP file  HTTP request  Linking HTTP to UI | * Given that I am the client, when I log into the application successfully then I should be able to view a history of my activities on the application. |
| View Accounts Page | As a client, I want to be able to view all my bank accounts, so that I am able to decide which one I want to interact with. | Design UI  PHP file  HTTP request  Link HTTP and UI  Swipe functionality  Restrict account creation | * Given that I am the client, when I request to view my bank accounts then I should be able to see a list of my existing accounts with the bank. |
| View Specific Bank Account | As a client, I want to be able to view a specific bank account, so that I can see how much money is available to me as well as the transaction history of that specific account. | Organise UI  PHP file  HTTP request | * Given that I am the client, when I request to view a specific bank account then I should be able to see the account details as well as a list of the transaction history associated with that specific account. |
| Transact Page | As a client, I want to be able to view transaction options available to me, so that I can decide on the type of transaction I wish to make. | Design UI | * Given that I am the client, when I request to make a transaction then I should be able to see the transaction options available to me. |

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| **User Story** | **Description** | **Tasks** | **Acceptance Criteria** |
| Client - View profile page | As a client, I want to be able to view my profile details, so that I am able to see my verification status. | Update UI | * Given that I am the client, when I request to view my details then I should be able to see my details and registration status as either “pending”, “accepted” or “rejected.” |
| Client - Add Account    (Was in sprint 2. Required to update in sprint 3) | As a client, I want to be able to create a new account, so that I am able to enjoy the benefits of that account type. | PHP file  HTTP request  Link HTTP to UI | * Given that I am the client, when I request to create an account of a type that I don’t currently have then I am notified by the display of a success message that the account was created. * Given that I am the client, when I request to create an account of a type that I currently have then I am notified by the display of a message that I am not allowed to have more than one account of each type of account available. |

**Sprint 4**

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| **User Story** | **Description** | **Tasks** | **Acceptance Criteria** |
| Make Transfer | As a client, I want to be able to make a transfer, so that I am able to move my money between my accounts. | Design UI  PHP file  HTTP request  Extract data from UI  Validate transfer amount | * Given that I am the client, when I enter valid details then I should be able to make a transfer successfully and a success message should be displayed. * Given that I am the client, when I enter invalid details then I should be notified that my details are invalid and a failed message should be displayed. |
| View transfer records in transaction history (on both accounts) | As a client, I want to be able to view transfers made/received in my transaction history, so that I can keep track of my transfer records for a specific account. |  | * Given that I am the client, when I view a specific account then I should be able to see the transfer records for that specific account in my transaction history. |
| View transfer records in timeline(logs) history | As a client, I want to be able to view my transfer records in my log history, so that I am able to see them as part of my user activity in the app. |  | * Given that I am the client, when I log in and view my log history, then I should be able to see my transfer records as part of the logs if I have made any transfers previously. |
| Make Payment | As a client, I want to be able to make a payment, so that I am able to move money from my account to someone else’s account. | Design UI  PHP file  HTTP request  Extract data from UI  Validate transfer amount | * Given that I am the client, when I enter valid details then I should be able to make a payment successfully and a success message should be displayed. * Given that I am the client, when I enter invalid details then I should be notified that my details are invalid and a failure/error message should be displayed. |
| View payment records in transaction history (both accounts) | As a client, I want to be able to view payments made/received in my transaction history, so that I can keep track of my payment records for a specific account. |  | * Given that I am the client, when I view a specific account then I should be able to see the payment records for that specific account in my transaction history. |

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| **User Story** | **Description** | **Tasks** | **Acceptance Criteria** |
| View payment records in timeline(logs) history | As a client, I want to be able to view my payment records in my log history, so that I am able to see them as part of my user activity in the app. |  | * Given that I am the client, when I log in and view my log history then I should be able to see my payment records as part of the logs if I have made any payments previously. |
| Latency testing | As a client, I don’t want to experience delays when processing transactions, so that I am able to enjoy a seamless experience. | Create python script | * Given that multiple users are accessing the application at the same time, check whether there are any latency delays. |

**Business Rules**

* A client has to be verified before being able to create an account.
* The maximum number of accounts that a client can have is the maximum number of unique accounts that the bank offers.
* A client can have one and only of each type of account available.
* Only an admin can change the verification status of a client.
* A client cannot make a payment from an account of an amount more than what they currently have in that account.
* A client cannot make a transfer from an account of an amount more than what they currently have in that account.

**Functional Requirements**

* Administrators must be able to log in.
* Administrators must be able to register as an administrator using a secret key.
* Administrators must be able to view a list of clients who have registered and have a pending verification status.
* Administrators must be able to view a customer’s details.
* Administrators must be able to change a customer’s verification status.
* Clients must be able to log in
* Clients must be able to register.
* Clients must be able to view their profile details.
* Clients must be able to view the bank account options available to them.
* Clients must be able to create bank accounts.
* Clients must be able to view all their accounts with the bank.
* Clients must be able to view the details of a specific bank account they have with the bank, including a transaction history of the specified account..
* Clients must be able to view the transaction options available to them.
* Clients must be able to view a timeline of their activity(logs) in the application.
* Clients must be able to make a payment.
* Clients must be able to make a transfer.
* Clients must be able to view the payment made in the transaction history of that account.
* Clients must be able to view the payment received in the transaction history of that account.
* Clients must be able to view the payment made on their activity timeline(logs).
* Clients must be able to view the payment received on their activity timeline(logs).
* Clients must be able to view the transfer made in the transaction history of that account.
* Clients must be able to view the transfer received in the transaction history of that account.
* Clients must be able to view the transfer made on their activity timeline(logs).
* Clients must be able to view the transfer received on their activity timeline(logs).

**Non-Functional Requirements**

* Intuitive user interface
* Security (Password encryption)
* Access Control