**Final Project Deliverable #2: Functions Used**

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| **Team Name:** | Bit Builders | | |
| **Team Members:** | Lomarda, Ismael Marlon & Subrio, Charryl | | |
| **Application Name:** | Banking Management System | | |
| **Function name** | **Capability** | **Description** | **Member assigned** |
| loadData() | Load client, admin, & transaction data | Loads stored client, admin, and transaction records into the system. | Lomarda |
| displayMenu() | Display main menu | Displays the main menu options (Client or Admin) | Subrio |
| displayClientMenu() | Display client menu | Shows menu options specific to client operations. | Lomarda |
| registerClient() | 1. Register and set up an account. | Registers a new client by accepting details (name, contact number, password, initial deposit). | Subrio |
| loginClient() | Log in client account | Authenticates and grants client access to their account. | Lomarda |
| displayClientAction() | Display client actions menu | Displays the available actions for a logged-in client. | Subrio |
| depositAmount() | 2. Deposit | Accepts a deposit amount and updates the client's account balance. | Lomarda |
| withdrawAmount() | 2. Withdraw | Accepts a withdrawal amount and deducts it from the client's account balance. | Subrio |
| displayClientInfo() | Display client info | Displays client details including ID, name, contact number, password, and balance. | Lomarda |
| displayAdminMenu() | Display admin menu | Shows menu options specific to admin operations. | Subrio |
| registerAdmin() | 3. Register new admin | Accepts client details (name, & password | Lomarda |
| loginAdmin() | Log in admin account | Authenticates and grants admin access to the system. | Subrio |
| displayAdminAction() | Display admin action menu | Displays the available actions for a logged-in admin. | Lomarda |
| viewAllClients() | 4. View a list of all clients and their details. | Displays a list of all registered clients with their details. | Subrio |
| registerClient() | 5. Add new clients to the system. | Registers a new client by accepting details (name, contact number, password, initial deposit). | Lomarda |
| modifyClientDetails() | 6. Modify client details | Updates client information based on a provided client ID. | Subrio |
| removeClient() | 7. Remove clients | Deletes a specific client from the system. | Lomarda |
| searchClient() | 8. Search for a specific client. | Retrieves and displays a specific client’s details using their client ID. | Subrio |
| sortClients() | 9. Sort clients | Sort clients by name or balance. | Lomarda |
| viewTransacHist() | 10. View transaction history. | Displays the deposit and withdrawal transaction history of a specific client using their ID. | Subrio |
| displayAdminCred() | Display admin credentials | Shows admin details including ID, name, and password. | Lomarda |
| saveData() | Save client, admin, & transaction data | Saves updated client, admin, and transaction records to the system's storage. | Subrio |

CHATGPT PROMPT:

Provide the code for this c language program:

Application Name: Banking Management System

Format:  
1. Function

* Capability
* Description

1. loadData()
   * Load client, admin, & transaction data.
   * Loads stored client, admin, and transaction records into the system.
2. displayMenu()
   * Display main menu.
   * Displays the main menu options (1 - Client, 2 - Admin, 0 - Exit).
3. displayClientMenu()
   * Display client menu.
   * Shows menu options specific to client operations (1 - Register, 2 - Login, 0 - Exit).
4. registerClient()
   * Register and set up an account.
   * Registers a new client by accepting details (name, contact number, password, initial deposit). Note: generate unique id for every register.
5. loginClient()
   * Log in client account.
   * Authenticates and grants client access to their account.
6. displayClientAction()
   * Display client actions menu.
   * Displays the available actions for a logged-in client (1 – Display Client Info, 2 - Deposit, 3 - Withdraw, 0 - Logout).
7. depositAmount()
   * Deposit.
   * Accepts a deposit amount and updates the client's account balance.
8. withdrawAmount()
   * Withdraw.
   * Accepts a withdrawal amount and deducts it from the client's account balance.
9. displayClientInfo()
   * Display client info.
   * Displays client details including ID, name, contact number, password, and balance.
10. displayAdminMenu()
    * Display admin menu.
    * Shows menu options specific to admin operations (1 - Register, 2 - Login, 0 - Exit).
11. registerAdmin()
    * Register new admin.
    * Accepts client details (name, & password). Note: generate unique id for every register.
12. loginAdmin()
    * Log in admin account.
    * Authenticates and grants admin access to the system.
13. displayAdminAction()
    * Display admin action menu.
    * Displays the available actions for a logged-in admin (1 – View clients, 2 – Add a client, 3 – Modify client details, 4 – Remove a client, 5 – Search for a client, 6 – Sort clients, 7 – View transaction history, 8 – Display admin info, 0 - Logout).
14. viewAllClients()
    * View a list of all clients and their details.
    * Displays a list of all registered clients with their details.
15. modifyClientDetails()
    * Modify client details.
    * Updates client information based on a provided client ID.
16. removeClient()
    * Remove clients.
    * Deletes a specific client from the system.
17. searchClient()
    * Search for a specific client.
    * Retrieves and displays a specific client’s details using their client ID.
18. sortClients()
    * Sort clients.
    * Sort clients by name or balance.
19. viewTransacHist()
    * View transaction history.
    * Displays the deposit and withdrawal transaction history of a specific client using their ID.
20. displayAdminCred()
    * Display admin credentials.
    * Shows admin details including ID, name, and password.
21. saveData()
    * Save client, admin, & transaction data.
    * Saves updated client, admin, and transaction records to the system's storage.