

Bank Account Creation System

Functional Specifications

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1.0 Introduction

A Bank Account page is one of the most accessed modern financial tools. This site is where a user will input their personal information with the financial institution. These are the functional specifications for a system to create new bank accounts and view existing accounts after creation. The bank will maintain this page to keep accurate records of financial transactions for their customers.

2.0 Scope

This document describes and details the functional requirements for the Bank Account Creation system. There may be implied requirements that may be derived from these requirements and not documented herein. Additional requirements may be added in the future during the design phase to specify this system more fully or to define this system more completely

The end user will require secure entry of their information. For the purposes of this project, we will be using fake information in place of the institution name, user's personal name, date of birth, and social security number. Please do not use real information.

3.0 Requirements

The following sub-sections delineate the major requirements for the Bank Account Creation system.

3.1 Home Page

There shall be an initial page displayed by all accesses to the website. This shall be the Home Page of the site. The Home page of the site shall contain the following controls:

- a. Open an Account

This control shall bring the user to a form to enter necessary data.

b. Sign-in

This control shall bring the user to a sign-in form.

c. Help

This control shall display the Help page in a new window.

3.2 Open an Account

The Host Server (Database) shall contain definitions for usernames, passwords, account number, routing number, birthdate, SSN (*use fake information i.e. 111-22-3344*), and balance. These definitions shall be local to the Host Server (Database) only and only be accessible from the client if they sign-in and if it is their data.

There shall be different types of accounts available (saving, checking, college, retirement), but the user can only select one. There shall be a check box that says the user is agreeing to the bank's terms with a link to the terms that opens in a new browser tab.

The creation shall succeed or fail. In case of a failure, display a proper error message (*invalid SSN, email, agree-to-terms box not checked, etc.*). The account creation shall be capable of cancellation. If cancelled, the home page shall be displayed and none of their info should be pushed to the database.

3.3 Sign-in

This page should display a box to input a username, a box to input a password, a "Sign-in" button, and a "Cancel" button. The password should appear as "*" characters as it is entered. If the sign-in is successful, display the user's Account Display Page. If the sign-in fails, clear the boxes, and display an error message. If the cancel button is clicked, return to the Home Page.

Beneath the username and password fields there should be a radio selection for account type, checking or savings. This field is required and only 1 can be selected.

3.4 Logout

After a successful sign-in and the My Account page is displayed, all subsequent displayed pages shall contain a logout control. When activated, the logout control shall display a control asking for confirmation to logout. If confirmed, the Home Page is displayed, and all subordinate windows are closed.

3.5 Workflow

When a user performs a successful creation or sign-in, the proper page shall be sent to the client allowing the displayed information to be read.

3.6 Host Operating System

The Host Server shall be Windows Server 2019.

3.7 Client Operating System

The Client Operating System may be any Operating system supporting a browser specified in requirement 8.

3.8 Browser

Any Web browser supporting HTML 5.

3.9 Contact information Page

Should display the banks contact page. (*using false information*). Address, phone, email, and a map should be visible.

3.10 Account Creation Page

Should display a form page. Every field should be required except where specified. The bank will need their full name in three fields (*middle name not required*), their date of birth, their social security number (*use a false i.e., 111-22-3344*), and address. The next section should ask for employment information, company name, contact phone number. The final section should include one required secondary contact, and a third optional contact. Note that these are points of contact in case of emergency.

3.10 Account Display Page

Should display the user's account information, account number, routing number, and balance. The next section of the page should display transaction history for the past 30 days. It should contain navigation to move backward to previous 30 days, and forward 30 days or to present.

Additionally, there should be a button to access user's Statement page.

3.11 User Statement Page

Should display a list of statement by month from date of account creation. List should display the date of the statement and a link to the pdf. For the sake of this project, the pdf link should be clickable but not linked to a file.

3.12 Help Page

This page should display the help for the application in HTML format.

3.15 Page Controls

No special Page controls are required.

3.16 Keyboard Operation

The client keyboard shall operate normally.

3.16 Mouse Operation

The client mouse shall operate normally.

3.17 Account Page Hierarchy

The Account page hierarchy shall be as shown in figure 1. This hierarchy shall serve as a guide to the inherent layout of the account host file structure as a traversal mechanism for the implementation of the Hierarchical Authentication system.

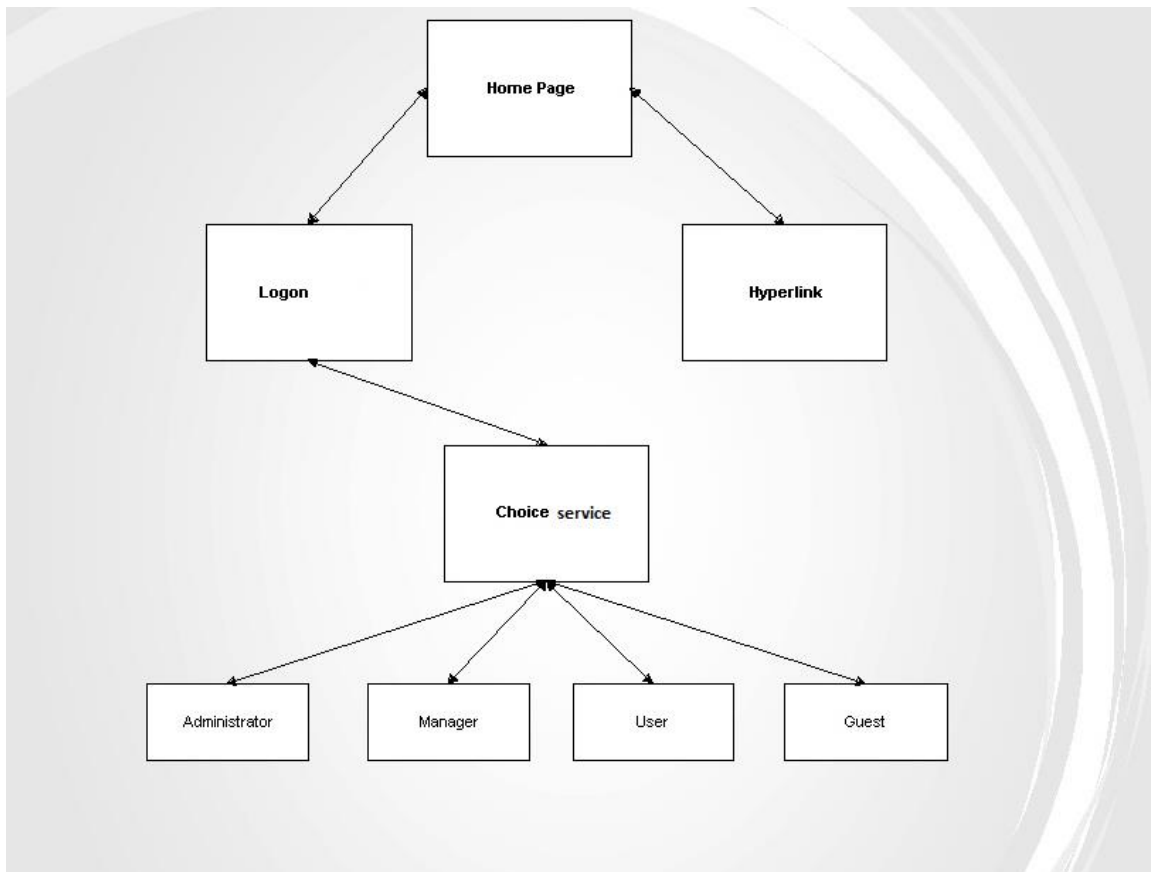


Figure 1: Account Page Hierarchy

4.0 Control Flow

The control flow is shown in figure 2 shall be used to aid in the design of the Authentication system.

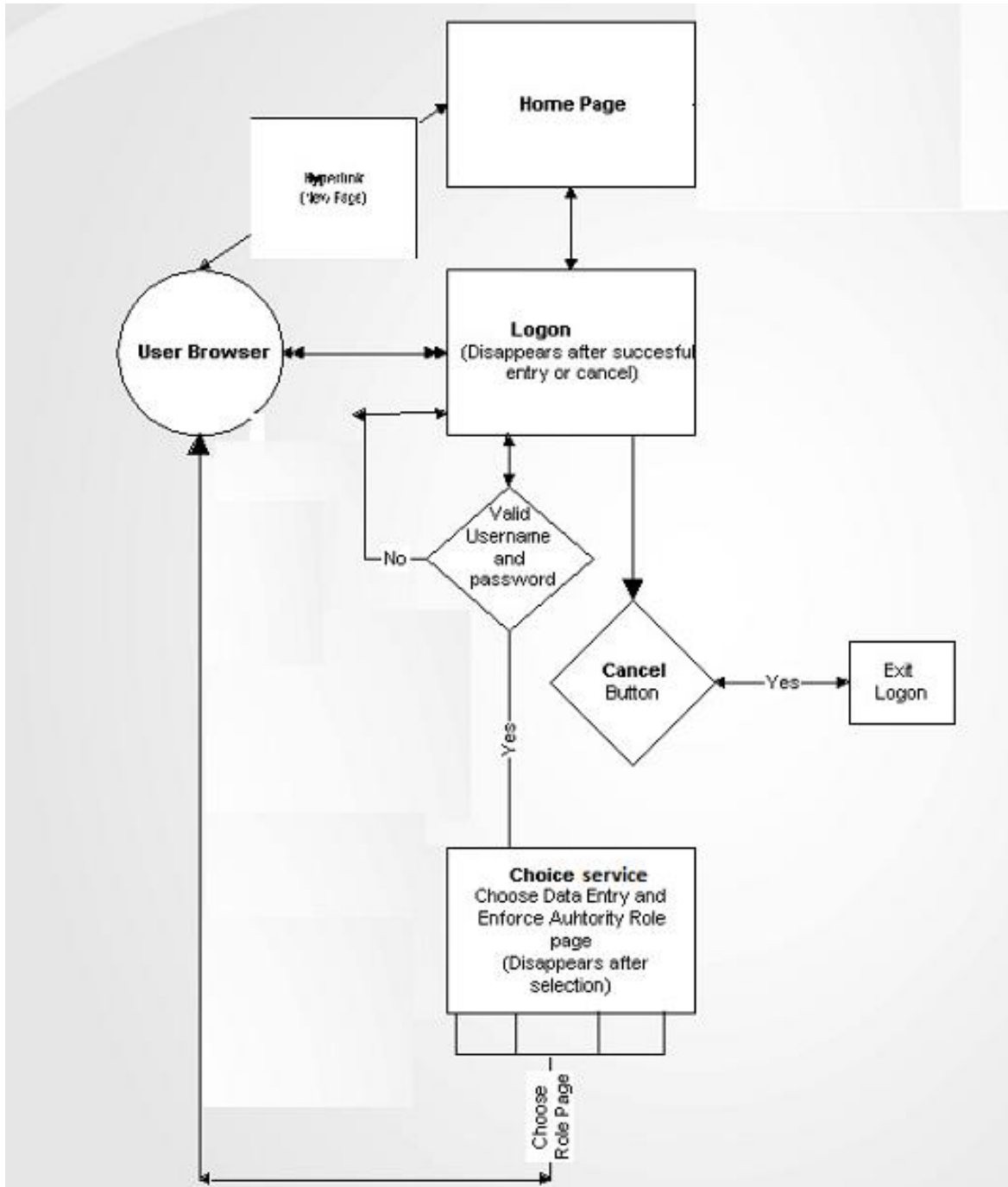


Figure 2: Control Flow Diagram

5.0 Data Flow

The Data flow diagram is shown in figure 3 is a general overview of the data flow for the Authentication system. Double arrows indicate a bi-directional flow of data. Single arrows indicate a single from/to pair for data flow.

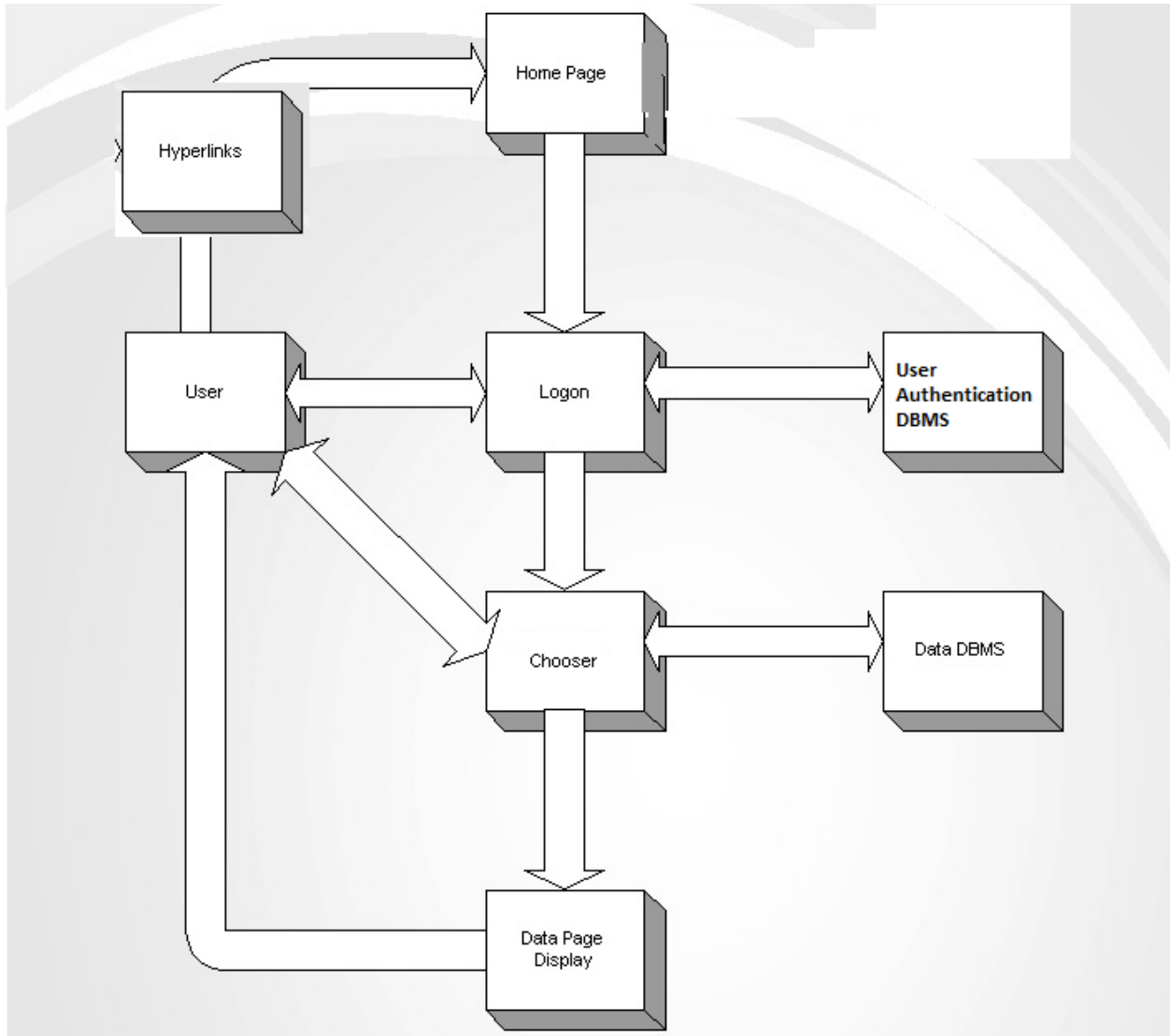


Figure 3: Data Flow Diagram