

Application

KAF Agency Portal

Module

Security & User Management
Business Process
Notification & Alert
Reporting
Administration

Document Type

User Functional Acceptance

Document Description

KAF Agency Portal Documentation.

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SYSTEM SPECIFICATION

1.0 Introduction

KAF Agency Portal System aims to provide a secure online agency platform for agents and investors to gain access to the investment asset details online. This portal system mainly allows the KIF agents and investors to view and download the latest Unit Trust Funds statements in a secure portal.

Agency Portal will provide the global platform for KAF agents and both local and international investors, where the agents will have access to their corresponding list of clients and its details and the investors will have access to their holdings.

1.1 Goal and Objective

The main goal for this project is to develop a secure online agency portal that has specific features to display account holding details, user profile, interactive dashboard, interactive and informative data charts and fund statements.

1.2 System Statement of Scope

KAF Agency System is a web-based application that is designed and developed by KAF IT department as a product for internal (Back Office users) and external (Agents & Investors) clients.

It is used by both agents and investors to view Unit Trust Funds details and download the latest statements. The application allows social media-based login for user authentication.

1.3 System Context

In order to make the smooth transition to an entire KAF Agency System, one needs to see some strategic issues:

- What is the structure in the system and how can it handle the organization task?
- What are the user roles and organization in leveraging and supporting this KAF Agency System?

2.0 Functional and Data Description

2.1 System Architecture

System architecture is shown as below.

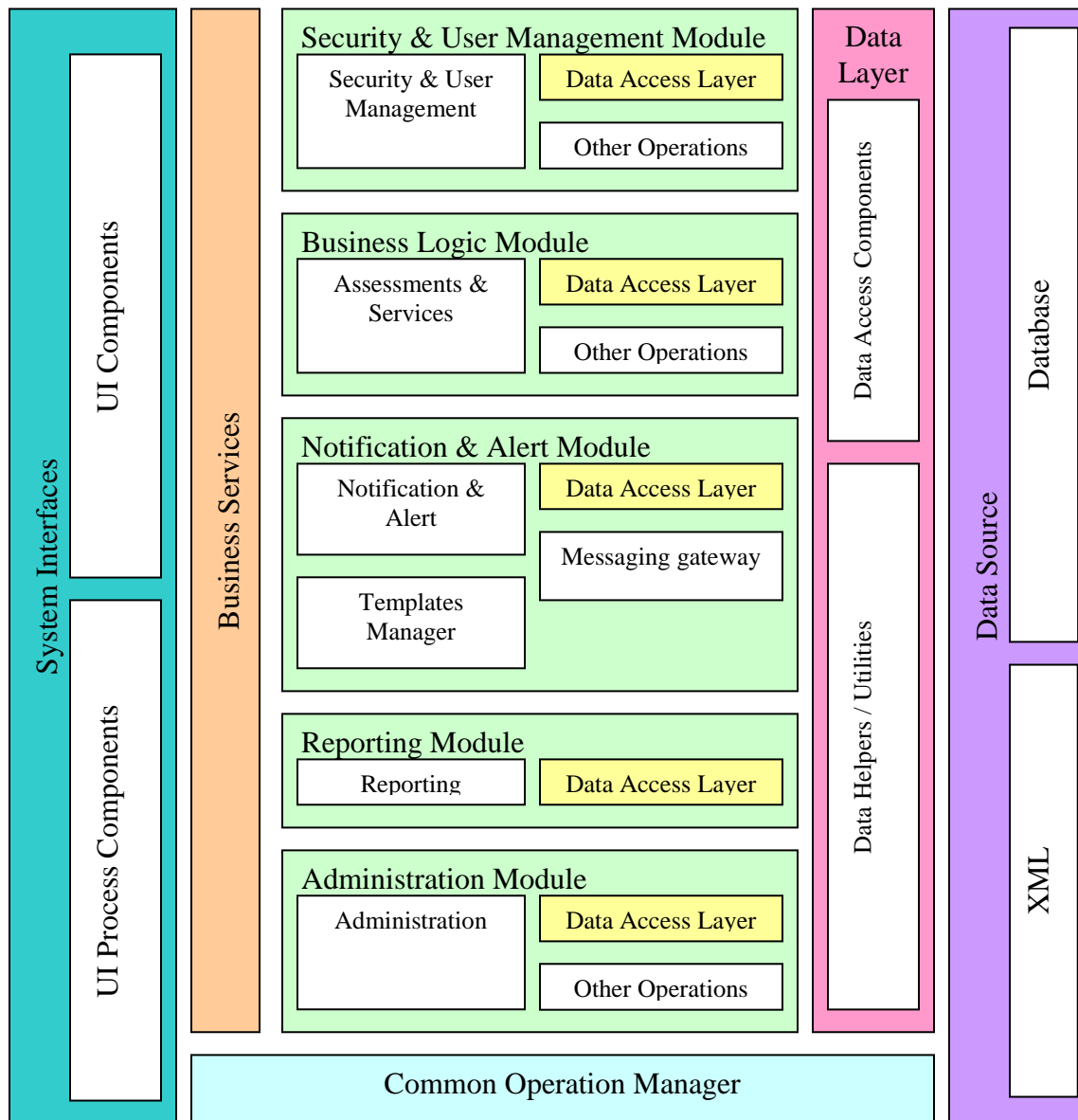


Figure 1: System architecture

KAF Agency is designed using N-tier architecture. *N-tier* data applications are data applications that are separated into multiple *tiers*. Also called "distributed applications" and "multi-tier applications," n-tier applications separate processing into discrete tiers that are distributed between the client and the server.

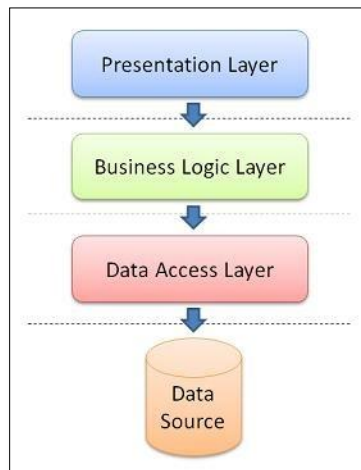


Figure 2: N-tier Application Architecture

2.2 System Components (Technology Requirements)

2.2.1 Presentation Layer

The top-most level of the application is the *presentation tier* (User Interface) which users interact with an application. The main function of the interface is to translate tasks and results to something so that the user can understand.

This web application is built using .NET technology, which is ASP.NET framework 4.x.x, and Bootstrap as the presentation layer.

Bootstrap is currently the most popular front-end web framework for developing responsive web applications. It offers a number of features and benefits that can improve your user experience with your web site, whether you are a novice at front-end design and development or an expert. Bootstrap is deployed as a set of CSS and JavaScript files, and it is used to help the design of website or application scale efficiently from phones to tablets to desktops in responsive manner. Current version of framework would be v4.0.

2.2.2 Business Logic Layer

This layer coordinates the application, processes commands, makes logical decisions and evaluations, and performs calculations. It also moves and processes data between the two surrounding layers. This layer contains all application business logics.

2.2.3 Data Access Layer

This layer is to stored and retrieved information from database or file system. The information is then passed back to the logic tier for processing, and then eventually back to the users. KAF Agency Portal is built using MySQL and XML files as data storage.

The database structure design would be many-to-one and one-to-many. For instance, the user (Agent) is able to login with multiple social account IDs, and those IDs can only match with single Agent's ID in the Back Office system. The Agent's ID can access to a list of clients that is service by him/her.

3.0 Software Requirements

3.1 Server

- Internet Information Services (IIS)
- .NET Framework 4.0
- ASP.NET Web Forms
- Bootstrap framework (Responsive web design)
- MySQL

3.2 Client

- Web browser (Cross browsers and cross devices)

3.3 Design and Implementation Constraints

- **Reliability requirement**
The main reliability is the validation used. Without proper validation, the system does not allow to enter that value into database. All the required validations controls are implemented to keep the Portal system secure.
- **Safety and securities consideration**
The security in this Portal extends to various users in different way by giving the users with different user id. Each user will be given access privilege based on given role to him/her.

3.4 Assumptions and Dependencies

- End user is the person with enough knowledge to use system.
- User can only register once with selected social media login.

4.0 System Workflow Design

Following is an example of workflow of KAF Agency Portal System for User Registration.

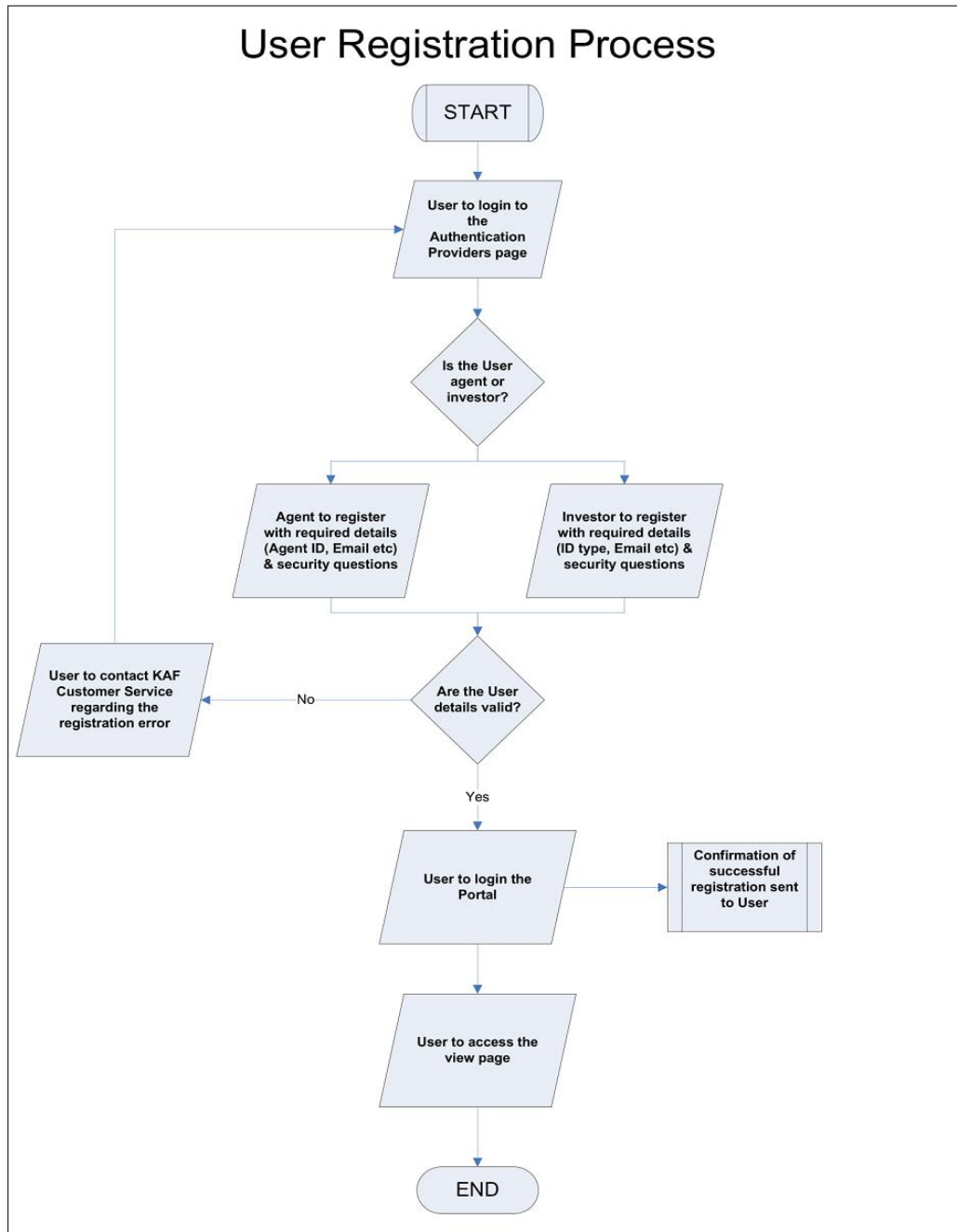


Figure 3: User Registration Process

5.0 Feature Requirements

At this stage, according to information collected from the users, the features are required in the Agency System are as follows;

5.1 Page Access and Visibility

5.1.1 Interactive Dashboard View

The dashboard will contain the following objects:

- Overview of the total holdings
 - It displays information such as Market Value, Investment Portfolio and Unit Trust details.
 - The information will be displayed in a form of pie chart that comprises EPF Investment and Cash.
 - If user clicks the EPF Investment section, it will show the EPF composition such as KDL, KDA, KDAI etc.
 - If user clicks the Cash section, it will show the Cash composition such as KVF, KFF, KTF etc.
- Data table
 - It shows a summary of currency (RM), EPF and Cash data.

5.1.2 Agent

- Personal information.
- Investor details.
- Investor listings.
- Investment details.
- Transaction details.

5.1.2 Investor

- Personal information.
- Agent details.
- Investment details.
- Transaction details.

5.2 Statement View

5.2.1 Agent

- User will be able to see the statements by month for the last 24-months.
- User will only be able to view their own investors.
- It allows a date range selection for user to pick selected dates.
- User will be able to see the summary of the statements.
- User will be able to view, download, and print the latest statements.

5.2.2 Investor

- User will have the option to view the statement for quarterly or monthly release for the last 24 months.
- User will be able to see the summary of the statements.
- User will be able to view, download, and print the latest statements.

5.3 Admin View and Features

- The system allows user for enabling or disabling agent login and with modal functionality for remarks.
- The system allows user for enabling or disabling investor login and with modal functionality for remarks.
- There will be import file functionality for data source – Agent, Investor, CIF, and Ledger.
- Log report to record and trace all system activities done by users.
- The system allows user to disable system for system maintenance schedule.
- Optional: manual data entry and data amendment.
- Update the opening balance (year & month).

5.4 Support and Feedback Page

5.4.1 Agent and Investor

- Name
- Position
- Subject
- Description
- Details/Comments

6.0 Acknowledgement and Acceptance

Developer:

Signature

Name :

Date :

Developer:

Signature

Name :

Date :

Requester:

Signature

Name :

Date :

Project Manager (Business):

Signature

Name :

Date :

Project Manager (IT):

Signature

Name :

Date :

Manager Application Development:

Signature

Name :

Date :

Approved By:

Signature

Head of Group IT

Name : Abdul Saheed

Date :