Application

KAF Agency Portal

Module

Security & User Management

Business Process

Notification & Alert

Reporting

Administration

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KAF Agency Portal System documentation.

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# SYSTEM SPECIFICATION

1. **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 statements of funds.

* 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. **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 (agent) and external (investor) clients.

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

* 1. **System context**

In order to make the smooth transition to an entire KAF Recruitment 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?
  1. **Major constraints**

A social media login, also known as a social sign-in, is a kind of single sign-on where you use existing login information of a social networking account like, Google, LinkedIn and Facebook to log on to a third website, instead of creating a new log-in account specially for that website.

Social media login is mainly designed for simplifying the login process for users and to realize a higher conversion rate for registrations. Of course, it is easier when the user does not have to create a new login account, meaning to think of a new username and password, and to remember it! However, there is a few constraints need to be considered of using social media login as system authentication.

* Lack of trust with Users

People often do not fully trust the company or website to use their personal data in a correct manner. They don’t want a company to post useless information on their social media profile and are worried that they will be spammed.

* Excluding job seekers who are not active on media social

There are people that do not user social media for all different kind of reason. Because of this, we may exclude a big part of our target audience.

* Social logins can contain false information (data accuracy)

People do not want always use accurate information when they create their social media account, or they do not user the email account with which they signed up anymore. Is also depends on the privacy settings of the person whether gain access to their information or not.

* Social networks login are sometime blocked

The use of social logins through platforms like Facebook can unintentionally cause that websites of third parties cannot be used at certain work places that block social media networks for productivity reasons.

* Loss of control to a third party

If Facebook, Twitter or other networks do not work, user does not have access to their accounts. It is also possible that a user cancels or deactivates their social media account, if this account was used to login to system that account also would be activated.

* Security issues

If one of these social identity providers is hacked, all accounts they use to log in are affected too.

* Too many options

User will have difficulty to choose which social media login to use if too many provider.

* Lack of email address for the client service

Not every social media provider gives access to email address.

* User forgot which social login they’ve used

Unless they always use the same social media account for all social logins, user often forget which social login they’ve use with this application, just like they often forget which username and password they’ve use.

1. **Functional and Data Description**
   1. **System Architecture**

System architecture is shown as below.

Figure : System architecture

System Interfaces

Security & User Management Module

Security & User Management

Data Access Layer

Other Operations

Common Operation Manager

Data Layer

Business Services

Notification & Alert Module

Notification & Alert

Messaging gateway

Templates Manager

Data Access Layer

Reporting Module

Reporting

Data Access Layer

Business Logic Module

Assessments & Services

Data Access Layer

Other Operations

Administration Module

Administration

Data Access Layer

Other Operations

Data Source

Database

XML

Data Access Components

Data Helpers / Utilities

UI Components

UI Process Components

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



Figure : N-tier Application Architecture

* 1. **System Components**
     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 the user can understand.

This web application is built using .Net technology, which is ASP.NET framework 4.0, and Bootstrap as the presentation layer.

Bootstrap is currently the most popular 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 is designed to help your website or application scale efficiently from phones to tablets to desktops.

* + 1. **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.

* + 1. **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 Recruitment is using MS SQL 2016 and XML files as data storage.

1. **Data Design**

Following are database table for KAF Agency Portal System.