

**Technical Report**

**Version 1.0**

**System’s Name:**

Visual Solutions E-Questionnaire

**Organization’s Name:**

**System Developer’s Name:**

**Team Members:**

1)

2)

3)

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# Introduction

## Visual Solutions E-Questionnaire Website

The Visual Solutions E-Questionnaire will feature the questionnaire in softcopy form, as it can helps the organization to create the questionnaire via website instead of do it in hardcopy .

The client requires the product because they need to fill the answer for the questionnaire.

## Analysis of Existing System

In the current system, the admin have to create the questionnaire in hardcopy form and send the form to the customer for them to fill in. After that the record will be keep in a file that will put in the drawer. There is a lot of customers and to find back the customer name, admin need to search the name according to the numbers or alphabet that is shown at the outside of the file. Each drawer contains only one file.

## Overview

## Admin

This section will explain the Admin view and role in the system in detail and user will able to perform all the functions for Admin. Admin is another type of user role in the system. The default Admin account of the system is as shown below:

Email Address: admin

Password: 123

Admin able to perform all the Admin tasks/functions including create question, view the question and modify question and user in the system. Admin can access all the records in the system e.g. Admin can create the customer account based on the product purchased by the user. Below are the steps to login into Admin view:

1. Go to the login page at root address for example “http://localhost:64569/View/Login/Login.aspx”.

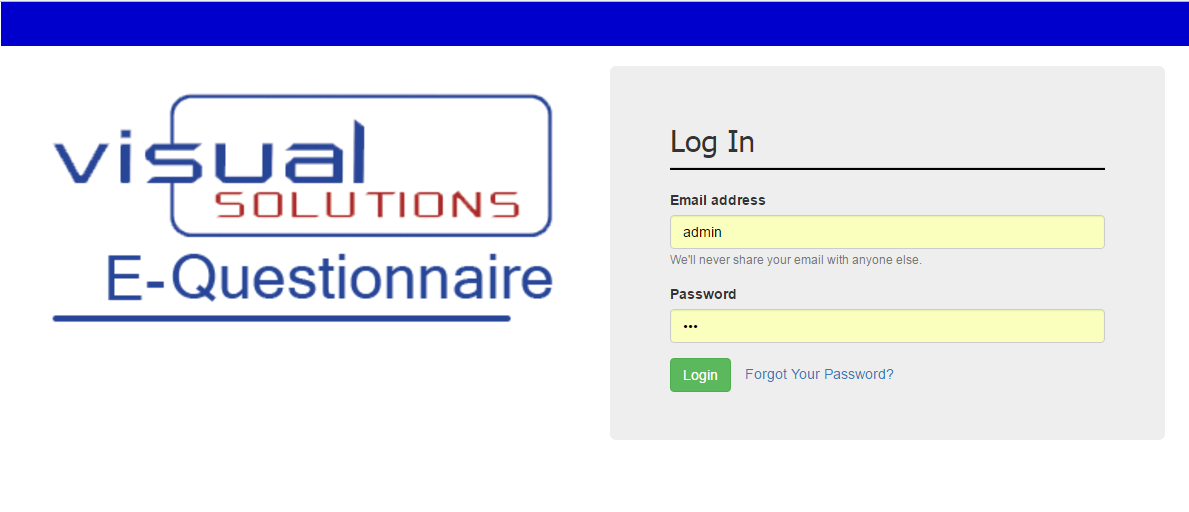


Figure 1.1: Login Page

1. Insert the user email and password, then click “Login” button.
2. If login successful, the following page will be shown.

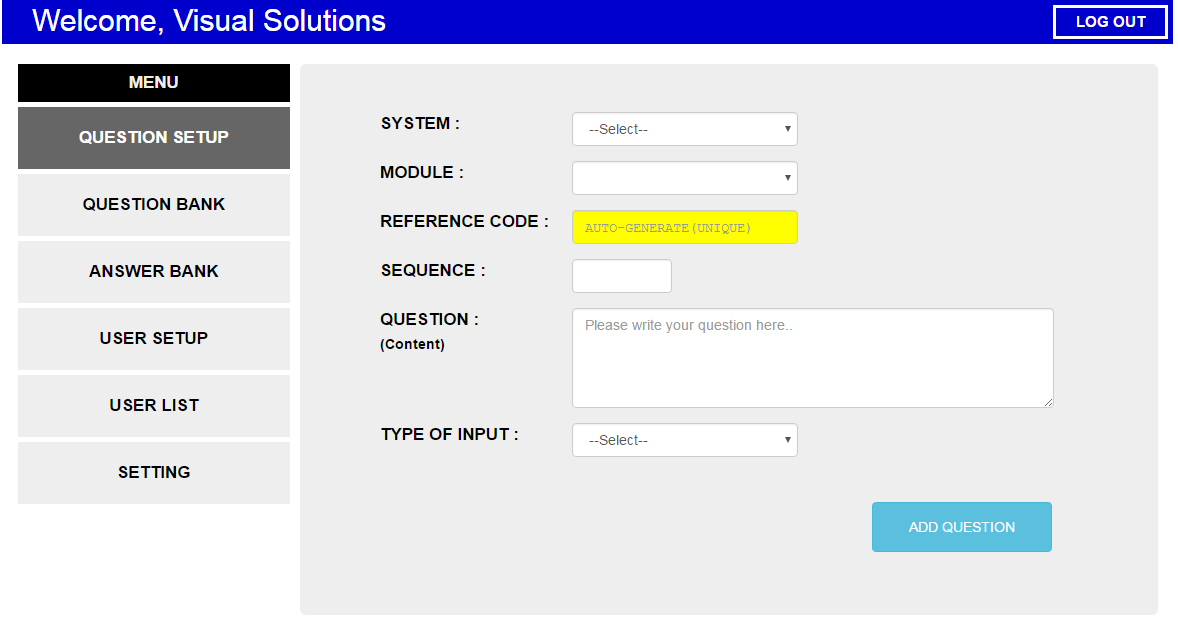


Figure 1.2: Question Setup

The Admin can perform the following tasks/functions:

|  |  |
| --- | --- |
| Task/Function | Description |
| Question Setup | Admin can create the question here with 4 different main system:   1. HRMS 2. ESS 3. HRSS 4. SAAS |
| Question Bank | Allows Admin to view, delete and modify the questions that have been created. |
| Answer Bank | Allows Admin to view the answer for the questionnaire. The question will be filtered by the system type. |
| User Setup | Allows Admin to create new user (admin/customer). If admin want to create another admin, the user part will be visible. |
| User List | Allow admin to view and modify another user account. Here admin cannot modify another admin account, only can view the info. Admin can:   * Search the name of the customer * Modify the info about the customer * Delete the customer |
| Settings | Allows Admin to edit the username, email and admin password. |

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## User (Customers)

This section will explain the User’s view and role in the system in detail and user will able to perform all the functions for User. User can perform all the User tasks/functions including answer question, profile management and also upload attachment. Below is the user login Id sample:

Email Address: user

Password: 123

Below are the steps to login into a User’s view:

1. Go to the login page at root address for example “http://localhost:64569/View/Login/Login.aspx”.

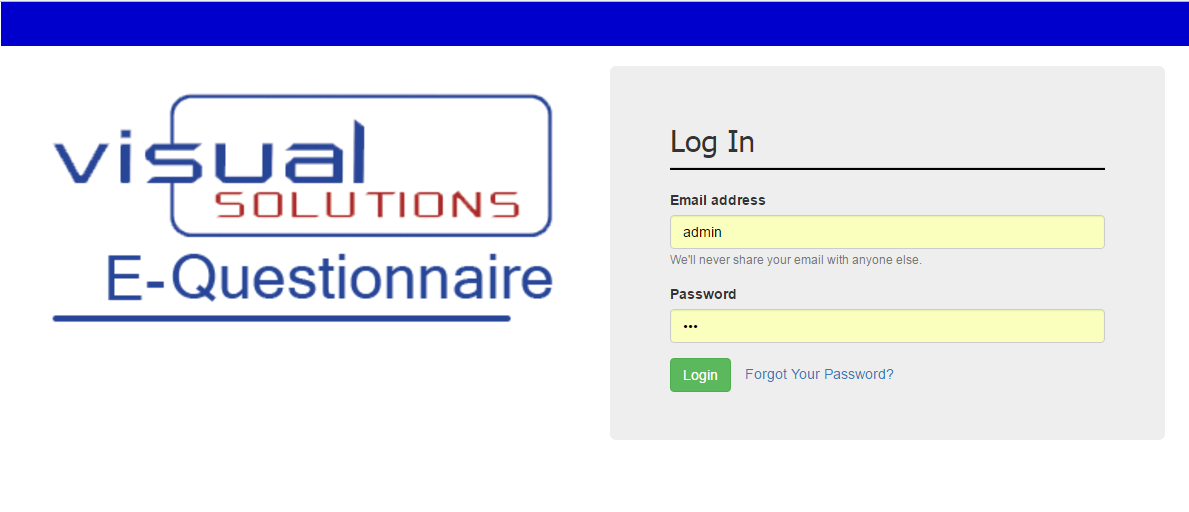


Figure 1.3: Login Page

1. Insert the user email and password, then click “Login” button.
2. If login successful, the following page will be shown.

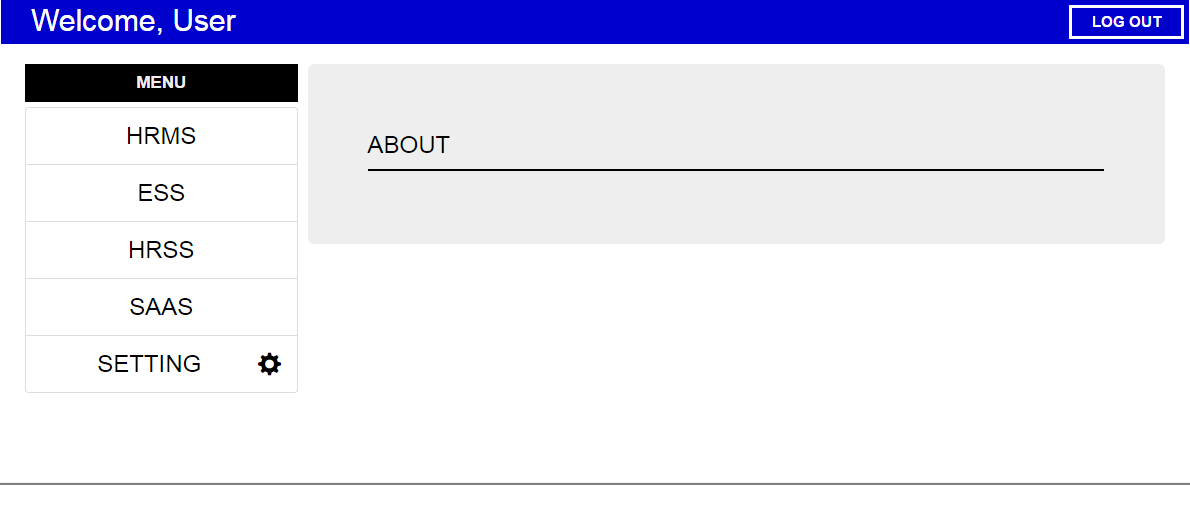


Figure 1.4: About Page

The User can perform the following tasks/functions:

|  |  |
| --- | --- |
| Task/Function | Description |
| HRMS (if available) | User can answer the question about HRMS module here. For example, answer the textbox, radio button or upload the file. |
| ESS (if available) | User can answer the question about ESS module here. For example, answer the textbox, radio button or upload the file. |
| HRSS (if available) | User can answer the question about HRSS module here. For example, answer the textbox, radio button or upload the file. |
| SAAS (if available) | User can answer the question about SAAS module here. For example, answer the textbox, radio button or upload the file. create another admin, the user part will be visible. |
| Settings | Allows user to edit the username, email and admin password. |

# SPECIFIC REQUIREMENT

## Software requirement

1. Google Chrome / Mozilla Firefox / Internet Explorer
2. Visual Studio Community 2015 (free account) / Visual Studio 2015 and above

## Website back-end reference.

### Login Site

|  |  |
| --- | --- |
| Website page | Back-end |
| Login Page | Description: To direct the success login user to specific page based on user role.  Folder root : View/Login/  File:   * Login.aspx (front-end) * Login.aspx.cs (Back end)   Database involved:   * UserAuth.dbo |

### Admin Site

|  |  |
| --- | --- |
| Website page | File |
| Admin Master Page | Description: This page control CSS, JavaScript, plugin and footer for admin site.  Folder root : View/Admin/  File:   * Admin.Master (front-end) * Admin.Master.cs (Back end) |
| Question Setup | Description: To create the question with different type of system, module and input.  Folder root : View/Admin/  File:   * QuestionSetup.aspx (front-end) * QuestionSetup.aspx.cs (Back end)   Database involved:   * System\_List.dbo (for system dropdown) * HRMS\_module.dbo (for module dropdown) * ESS\_module.dbo (for module dropdown) * HRSS\_module.dbo (for module dropdown) * SAAS\_module.dbo (for module dropdown) * QuestionBank.dbo * Question\_Answer\_TextType.dbo (default answer) * Question\_Answer\_OptionType.dbo (option answer) * Question\_Answer\_Attachment.dbo (type attachment) |
| Question Bank | Description: To view the available question (created in Question Setup).  Folder root : View/Admin/  File:   * QuestionBank.aspx (front-end) * QuestionBank.aspx.cs (Back end)   Database involved:   * System\_List.dbo (for system dropdown) * HRMS\_module.dbo (for module dropdown) * ESS\_module.dbo (for module dropdown) * HRSS\_module.dbo (for module dropdown) * SAAS\_module.dbo (for module dropdown) * QuestionBank.dbo |
| Question Edit (link with Question Bank “Edit” button) | Description: To edit the available question.  Folder root : View/Admin/  File:   * EditQuestion.aspx (front-end) * EditQuestion.aspx.cs (Back end)   Database involved:   * System\_List.dbo (for system dropdown) * HRMS\_module.dbo (for module dropdown) * ESS\_module.dbo (for module dropdown) * HRSS\_module.dbo (for module dropdown) * SAAS\_module.dbo (for module dropdown) * QuestionBank.dbo * Question\_Answer\_TextType.dbo (default answer) * Question\_Answer\_OptionType.dbo (option answer) * Question\_Answer\_Attachment.dbo (type attachment) |
| Answer Bank | Description: List of the available customers for different system.  Folder root : View/Admin/  File:   * AnswerBank.aspx (front-end) * AnswerBank.aspx.cs (Back end)   Database involved:   * System\_List.dbo (for system dropdown list) * HRMS\_module.dbo (to select single user) * ESS\_module.dbo (to select single user) * HRSS\_module.dbo (to select single user) * SAAS\_module.dbo (to select single user) |
| Module List (link with Answer Bank “View Answer” Button) | Description: List of the available module for the selected customer.  Folder root : View/Admin/  File:   * ModuleList.aspx (front-end) * ModuleList.aspx.cs (Back end)   Database involved:   * HRMS\_module.dbo * ESS\_module.dbo * HRSS\_module.dbo * SAAS\_module.dbo * HRMS\_User\_Info.dbo * ESS\_User\_Info.dbo * HRSS\_User\_Info.dbo * SAAS\_User\_Info.dbo * QuestionBank.dbo (to get total question for module) * User\_Answer\_Text.dbo (to get total user answer) * User\_Answer\_Option.dbo (to get total user answer) * User\_Attachment.dbo (to get total user answer) |
| Answer List (link with Module List “view Question” button) | Description: List of the available question for the selected module.  Folder root : View/Admin/  File:   * AnswerList.aspx (front-end) * AnswerList.aspx.cs (Back end)   Database involved:   * QuestionBank.dbo * User\_Answer\_Text.dbo (to see answer status) * User\_Answer\_Option.dbo (to see answer status) * User\_Attachment.dbo (to see answer status) |
| Answer Generator (link with Answer List “view answer” button) | Description: To view the user’s answer for the selected question.  Folder root : View/Admin/  File:   * AnswerGenerator.aspx (front-end) * AnswerGenerator.aspx.cs (Back end)   Database involved:   * QuestionBank.dbo * Question\_Answer\_OptionType.dbo * User\_Answer\_Text.dbo (to extract user answer) * User\_Answer\_Option.dbo (to extract user answer) * User\_Attachment.dbo (to extract user answer) |
| User Setup | Description: To setup the new user account (admin / customer)  Folder root : View/Admin/  File:   * UserSetup.aspx (front-end) * UserSetup.aspx.cs (Back end)   Database:   * HRMS\_module.dbo (to load HRMS panel) * ESS\_module.dbo (to load ESS panel) * HRSS\_module.dbo (to load HRSS panel) * SAAS\_module.dbo (to load SAAS panel) * UserAuth.dbo (to register user) * HRMS\_User\_Info (to store user HRMS module) * ESS\_User\_Info (to store user ESS module) * HRSS\_User\_Info (to store user HRSS module) * SAAS\_User\_Info (to store user SAAS module) |
| User List | Description: List of the available user (created in user setup). Admin can delete the available user here.  Folder root : View/Admin/  File:   * UserList.aspx (front-end) * UserList.aspx.cs (Back end)   Database:   * UserAuth.dbo * HRMS\_User\_Info.dbo * ESS\_User\_Info.dbo * HRSS\_User\_Info.dbo * SAAS\_User\_Info.dbo * User\_Answer\_Option.dbo * User\_Answer\_Text.dbo * User\_Attachment.dbo |
| User Edit | Description: To modify the user info.  Folder root : View/Admin/  File:   * UserEdit.aspx (front-end) * UserEdit.aspx.cs (Back end)   Database:   * UserAuth.dbo * HRMS\_User\_Info.dbo * ESS\_User\_Info.dbo * HRSS\_User\_Info.dbo * SAAS\_User\_Info.dbo * HRMS\_module.dbo * ESS\_module.dbo * HRSS\_module.dbo * SAAS\_module.dbo |
| Settings | Description: To edit admin information.  Folder root : View/Admin/  File:   * AdminSettings.aspx (front-end) * AdminSettings.aspx.cs (Back end)   Database:   * UserAuth.dbo |

### User Site

|  |  |
| --- | --- |
| Website page | Back-end |
| User Master Page | Description: This page control CSS, JavaScript, plugin and footer for user site.  Folder root : View/User/  File:   * User.Master (front-end) * User.Master.cs (Back end)   Database involved:   * HRMS\_User\_Info.dbo * ESS\_User\_Info.dbo * HRSS\_User\_Info.dbo * SAAS\_User\_Info.dbo |
| HRMS | Folder root : View/User/  File:   * UserHRMS.aspx (front-end) * UserHRMS.aspx.cs (Back end)   Database:   * QuestionBank.dbo * HRMS\_module.dbo * HRMS\_User\_Info.dbo * User\_Answer\_Text.dbo * User\_Answer\_Option.dbo * User\_Attachment.dbo |
| ESS | Folder root : View/User/  File:   * UserESS.aspx (front-end) * UserESS.aspx.cs (Back end)   Database:   * QuestionBank.dbo * ESS\_module.dbo * HSSS\_User\_Info.dbo * User\_Answer\_Text.dbo * User\_Answer\_Option.dbo * User\_Attachment.dbo |
| HRSS | Folder root : View/User/  File:   * UserHRSS.aspx (front-end) * UserHRSS.aspx.cs (Back end)   Database:   * QuestionBank.dbo * HRSS\_module.dbo * HRSS\_User\_Info.dbo * User\_Answer\_Text.dbo * User\_Answer\_Option.dbo * User\_Attachment.dbo |
| SAAS | Folder root : View/User/  File:   * UserSAAS.aspx (front-end) * UserSAAS.aspx.cs (Back end)   Database:   * QuestionBank.dbo * SAAS\_module.dbo * SAAS\_User\_Info.dbo * User\_Answer\_Text.dbo * User\_Answer\_Option.dbo * User\_Attachment.dbo |
| Question List (link with HRMS/ESS/HRSS/SAAS “start” button) | Folder root : View/User/  File:   * QuestionList.aspx (front-end) * QuestionList.aspx.cs (Back end)   Database:   * QuestionBank.dbo * User\_Answer\_Text.dbo * User\_Answer\_Option.dbo * User\_Attachment.dbo |
| Question Generator (link with Question List “Answer” button) | Folder root : View/User/  File:   * QuestionGenerator.aspx (front-end) * QuestionGenerator.aspx.cs (Back end)   Database:   * QuestionBank.dbo * Question\_Answer\_TextType.dbo * Question\_Answer\_OptionType.dbo * Question\_Answer\_Attachment.dbo * User\_Answer\_Text.dbo * User\_Attachment.dbo * User\_Answer\_Option.dbo |
| Settings | Folder root : View/User/  File:   * UserSettings.aspx (front-end) * UserSettings.aspx.cs (Back end)   Database:   * UserAuth.dbo |

## Database Diagram

Server name: NTBK20\SQL2014

Database: VSQ

Password: p@ssw0rd

### Question and Answer ERD

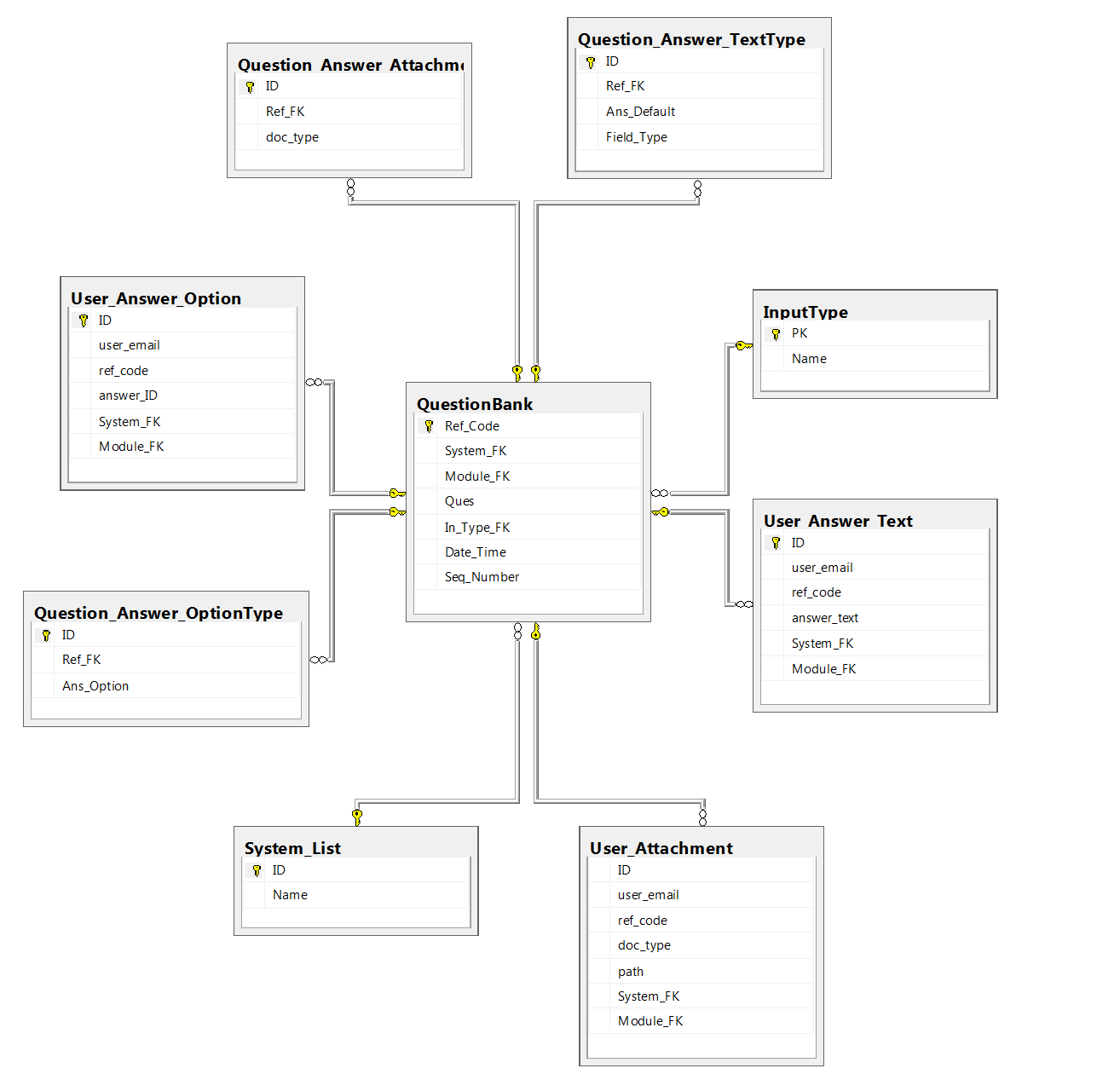


Figure 2.1: Question and Answer ERD

#### QuestionBank.dbo:

* + Ref\_Code : Unique number for the question (int)
  + System\_FK : Foreign Key for SystemList.dbo ID (int)
  + Module\_FK: Foreign Key for HRMS, ESS, HRSS, SAAS PK (int)
  + Ques: Question Text (maxvchar)
  + In\_Type\_FK: Type of input for each question. Ex: text, memo, checkbox (int)
  + Date\_Time: Date and Time stamp for the question created or modified. (date/time)
  + Seq\_Number: To declare the sequence of the question. (int)

#### System\_List.dbo:

* + ID: unique id for the system name: (int)
    - 1 – HRMS
    - 2 - ESS
    - 3 – HRSS
    - 4 – SAAS
  + Name: system name : HRMS/ESS/HRSS/SAAS (vchar)

#### InputType.dbo

* + PK : unique id for input type (int)
  + Name: input type name : Textbox, Memo, Checkbox, Radio button, Attachment (vchar)

#### Question\_Answer\_Text.dbo (for textbox and memo)

* + ID: unique id for default answer (int)
  + Ref\_FK : foreign key for Ref\_Code in QuestionBank.dbo (int)
  + Ans\_Default: To store default answer by admin (maxvchar)
  + Field\_Type: To store answer type : ex: 1 (text) / 2 (numeric)

#### Question\_Answer\_Option.dbo (for radio and checkbox)

* + ID: unique id for option answer (int)
  + Ref\_FK : foreign key for Ref\_Code in QuestionBank.dbo (int)
  + Ans\_Option: To store multiple option answer by admin (maxvchar)

#### Question\_Attachment.dbo (for attachment)

* + ID: unique id for attachment type (int)
  + Ref\_FK : foreign key for Ref\_Code in QuestionBank.dbo (int)
  + doc\_type: to store the attachment file type. Ex: 1(document) / 2(image)

#### User\_Answer\_Text.dbo (For textbox and memo)

* + ID: unique id for attachment type (int)
  + user\_email: Customer email for reference (maxvchar)
  + ref\_code: foreign key for Ref\_Code in QuestionBank.dbo (int)
  + answer\_text: to save customer text answer (maxvchar)
  + System\_FK : Foreign Key for SystemList.dbo ID (int)
  + Module\_FK: Foreign Key for HRMS, ESS, HRSS, SAAS PK (int)

#### User\_Answer\_Option.dbo (for radio and checkbox)

* + ID: unique id for attachment type (int)
  + user\_email: Customer email for reference (maxvchar)
  + ref\_code: foreign key for Ref\_Code in QuestionBank.dbo (int)
  + answer\_ID: to save customer selected option answer (maxvchar)
  + System\_FK : Foreign Key for SystemList.dbo ID (int)
  + Module\_FK: Foreign Key for HRMS, ESS, HRSS, SAAS PK (int)

#### User\_Answer\_Option.dbo (for attachment)

* + ID: unique id for attachment type (int)
  + user\_email: Customer email for reference (maxvchar)
  + doc\_type: to store the attachment file type. Ex: 1(document) / 2(image)
  + path: to save the uploaded file path (maxvchar)
  + System\_FK : Foreign Key for SystemList.dbo ID (int)
  + Module\_FK: Foreign Key for HRMS, ESS, HRSS, SAAS PK (int)

### System and Module ERD

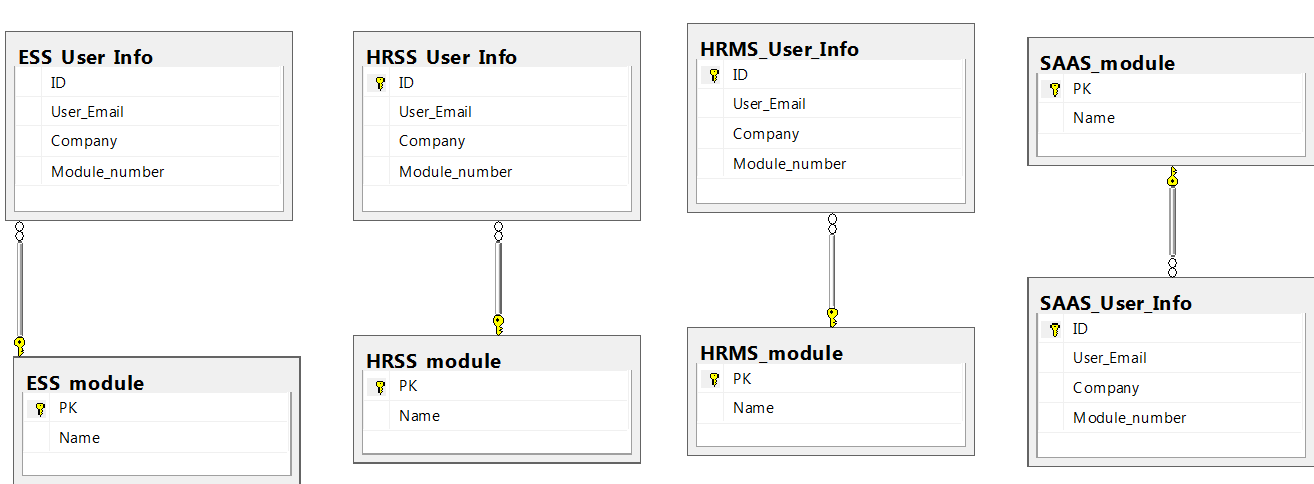


Figure 2.2: System and Module ERD

#### ESS\_module.dbo

* + PK: unique ID for the module name (int)
  + Name: ESS module name (vchar)

#### ESS\_User\_Info.dbo

* + ID: unique id for the user purchased module. (int)
  + User\_Email: user email as main reference (maxvchar)
  + Company: user’s company name (maxvchar)
  + Module\_number: Foreign key for unique id (PK) in ESS\_module.dbo (int)

#### HRMS\_module.dbo

* + PK: unique ID for the module name (int)
  + Name: HRMS module name (vchar)

#### HRMS\_User\_Info.dbo

* + ID: unique id for the user purchased module. (int)
  + User\_Email: user email as main reference (maxvchar)
  + Company: user’s company name (maxvchar)
  + Module\_number: Foreign key for unique id (PK) in HRMS\_module.dbo (int)

#### HRSS\_module.dbo

* + PK: unique ID for the module name (int)
  + Name: HRSS module name (vchar)

#### HRSS\_User\_Info.dbo

* + ID: unique id for the user purchased module. (int)
  + User\_Email: user email as main reference (maxvchar)
  + Company: user’s company name (maxvchar)
  + Module\_number: Foreign key for unique id (PK) in HRSS\_module.dbo (int)

#### SAAS\_module.dbo

* + PK: unique ID for the module name (int)
  + Name: SAAS module name (vchar)

#### SAAS\_User\_Info.dbo

* + ID: unique id for the user purchased module. (int)
  + User\_Email: user email as main reference (maxvchar)
  + Company: user’s company name (maxvchar)
  + Module\_number: Foreign key for unique id (PK) in SAAS\_module.dbo (int)

### User ERD

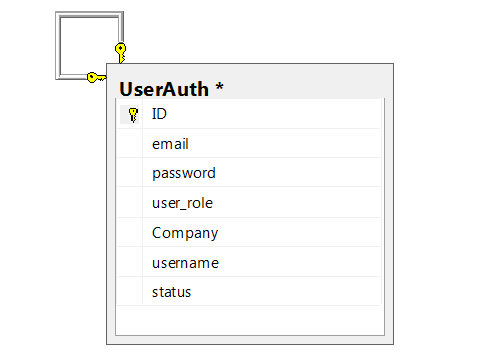


Figure 2.3: User ERD

#### UserAuth.dbo

* + ID: unique id for user (int)
  + email: user email address (maxvchar)
  + password: user password (maxvchar)
  + user\_role: A – Admin / U – User (char)
  + Company: user company name (maxvchar)
  + username: username for the user (maxvchar)
  + status: E – enable (active) / D – disable (deactivate) (char)

## Procedure use:

* + AddQuestionProcedure
  + ExtractQuestionData