ISHA Donation System

# Summary

ISHA Donation System is a web application to support the creation and maintenance of donations made by ISHA meditators. It will support operations for Online Data Entry of Mandate Registration Data, Upload of Mandate Registration data in batch mode via spread sheets and generations of various reports.

# Business Process Flow

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# Business Requirements

1. Security
   1. Login

Allow Volunteers to login to the application. After successfully logging in, Users should be directed to the main dashboard. The main dashboard should contain links to all operations that can be done by the user.

1. Donor Online Operations
   1. Search Donor

Allow users to search for a Donors with a phone number

* 1. Create New Donor

Allow users to create a new Donor with details on the Donation. Details to be captured are provided in the Common Mandate Form.pdf and the Annexure I given below in this document

* 1. Update Donor Information

Allow users to update information of a Donor. When updating a Donor, Display a text area to enter comments.

1. Donor Bulk Operations
   1. Bulk Download of New Donors

* Download all New Donors in the following excel template
* 
  1. Bulk Download of Donation Info
* Download details of all donations that need to be debited in the following template
* 
  1. Bulk upload of Remittances received
* Upload all successful and failed remittances based on the following templates
* 
* 

1. Reports

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1. Notifications

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# Technical Requirements

1. Solution Architecture

Solution must be deployed as a simple java application in a tiered architecture as shown below.



* 1. Front End

The User Interface should be built using AngularJS, HTML5,CSS, Bootstrap. The Front end application should be developed independent of the backend application and must communicate with the back end via ReST API.

The Navigation of the screens must follow a flow similar to the one shown below

* 1. Back End

The Back end application should be coded in Java and must be deployed as a Spring Boot Application. All operations must be exposed via ReST API

* 1. Database

Application Data should be stored in a MySQL Data base. The initial Data model script is provided in the attached IDS\_Create\_SQL.sql

1. Solution Engineering
   1. Repository

The Application code must be stored in and accessed from a Github repository.

* 1. Deployment

Maven or Gradle must be used packaging the application code.

# Annexure I

Open Mandate

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Name** | **Web Field Type** | **Data Type** | **Length** | **Compulsory/Optional** | **Field Description** |
| Consumer Code  (Consumer Reference No. in Mandate) | N/A (not entered through the screen) | Alpha/NUMERIC | 20 | Optional | This will be unique no for each customer of Client Name  This value is NOT entered on the screen. Therefore no screen field is applicable. |
| Applicant Name | Text | CHAR | 40 | Compulsory | Customer Name |
| Bank A/c holder Name | Text | CHAR | 40 | Compulsory | Apply standard validations |
| Bank Name | Text | No validation | No validation | Optional | Bank Name of the customer |
| Branch Name | Text | No validation | No validation | Optional | Branch Name |
| Bank Account No | Text | Alpha/NUMERIC | 18 | Compulsory |  |
| MICR | Text | NUMERIC | 09 | Optional |  |
| IFSC Code | Text | Alpha / Numeric | 11 | Optional |  |
| Account Type | Drop Down | NUMERIC | 2 | Compulsory | Apply standard validations  Drop down values are  SB  CA  CC  SB-NRE  SB-NRO  Other |
| Email Id | Text | Alpha / Numeric | 40 | Compulsory | Apply standard e-mail validations |
| Mobile No | Text | Numeric | 10 | Compulsory |  |
| Start Date | Date | Numeric | 10 | Compulsory | Start date DDMMYYYY  Month range should be 01-12  Start Date should not be a past date |
| End Date | Date | Numeric | 10 | Compulsory | End date DDMMYYYY  Month range should be 01-12  End Date should not be prior to start date. |
| Amount | Text | Numeric | 13 | Compulsory | Amount to be debited |
| Frequency | Drop Down | Alpha / Numeric | 10 | Compulsory | DAIL: Daily  Week: Weekly  MNTH: Monthly  QURT: Quarterly  MAIN: Semi annually  YEAR: Yearly  BIMN: Bi-Monthly  ADHO: As and when presented |
| Donor Status | Toggle Button | N/A | N/A | Compulsory | The Two toggle fields are “Active/Deactive”  In “Create Mode” this toggle will default to “Active”  It can be edited only in the update mode . |
| Comments | TextArea | Alpha | 2000 | Optional | This is entered only in “Update” mode. It is a free form text for a max of 2000 chars |
| Region | Drop Down | Alpha / Numeric | 10 | Optional | Drop Down Values  APT |
| City | Drop Down | Alpha / Numeric | 10 | Optional | Drop Down Values  Hyderabad  Vijayawada  Vizag |
| State | Drop Down | Alpha / Numeric | 10 | Optional | Drop Down Values  Andhra Pradesh  Telangana |
| Center | Drop Down | Alpha / Numeric | 10 | Optional | Drop Down Values  Madhapur  Kukatpally  Ameerpet  Himayatnagar  Secunderabad  Dilsukhnagar  Gachibowli  Vijayawada  Vizag |