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This Design Specification (DS) describes the overall solution for ESRA, its components, and intended users. It describes how the system is installed and configured to meet functional requirements.

# Scope

This document defines the DS for the ESRA application

# Definitions/Abbreviations

List the definitions and abbreviations used in this specification. Do not repeat definitions that are not present in another document, instead refer to that document, For example: ITD-0289, Lexicon of Computer Technology

Reference ITD-0289: Lexicon of Computer Terminology for a complete list of definitions. Also, reference Design Specification guidance for general definitions pertaining to DS.

For project specific definitions used for this document, reference the following table:

| **Term** | **Definition** |
| --- | --- |
| ESRA |  |
|  |  |

# Assumptions, Dependencies, and Constraints

Specify any initial assumptions, dependencies, and constraints pertaining to the Design Specification.

# Stage 1: Initial Architecture and Technology Impact Assessment

## Data Architecture and Governance

### Governance Roles

Specify the Data Domains (entity/subject area), Data Domain Managers (DDM), and Compliance Policies of the data governance roles. Specify who will be filling the roles of Data Architect, Data Governance Point of Contact, and System Owner.

| **Data Domain** | **Data Domain Manager** | **Compliance Policies** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

| **Project-Specific Role** | **Person Filling Role** |
| --- | --- |
| Data Architect |  |
| Data Governance Point of Contact |  |
| System Owner | Shanmuga Singaravel |

### Information Life Cycle

Categorize the specified data domains in the following POSMAD table, and then provide descriptions.

|  |  |
| --- | --- |
| **Planned** |  |
| **Obtained** |  |
| **Stored and Shared** |  |
| **Maintained** |  |
| **Applied** |  |
| **Disposed** |  |

| **Information Life Cycle Stage** | **Description** |
| --- | --- |
| **Planned** |  |
| **Obtained** |  |
| **Stored and Shared** |  |
| **Maintained** |  |
| **Applied** |  |
| **Disposed** |  |

## Current State (CS) Architecture

If existing, provide a high-level description of the system’s current architecture. Include an overview, describe the shortcomings, and provide a logical architecture diagram of the CS.

### Overview and Shortcomings of the CS

### Reference (if any) to the legacy design document

### CS Logical Architecture Diagram

## Future State (FS) Architecture

Detail the proposed solution including evolutionary considerations and alternatives considered. Provide a process flow diagram illustrating the FS business architecture.

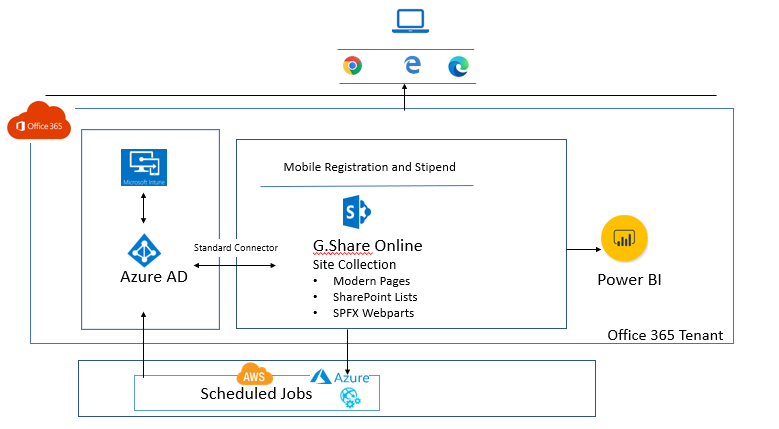
### Proposed Solution

#### Evolutionary Considerations

#### Alternatives Considered

### FS Business Architecture Diagram

#### Application Overview



Application Front End: Existing GShare platform on SharePoint online

Backend: SharePoint Lists and Libraries

Scheduled Jobs: Azure WebJobs or AWS Lambdas

Reports: PowerBi and Excel

Authentication and Integration: Azure AD

|  |  |
| --- | --- |
| Environment | URL |
| Dev |  |
| Staging |  |
| Production |  |

# Stage 2: Detailed Design

## Finalized System Overview

## User Interface Design

### Mock-Ups

#### Beneficiary Module

| **DS ID** | **Description** | **Screen Shot** |
| --- | --- | --- |
|  | Enrollment Screen |  |
|  | Terms & Conditions |  |
|  | Request Enrollment |  |
|  | Submitted Request |  |
|  | Request History |  |
|  | Update Request |  |
|  | Cancel Request |  |
|  | Request on behalf of |  |

#### Manager/Reviewer Module

| **DS ID** | **Description** | **Screen Shot** |
| --- | --- | --- |
|  | Pending Request |  |
|  | Completed Request |  |

#### Poweruser Module

| **DS ID** | **Description** | **Screen Shot** |
| --- | --- | --- |
|  | Reports Screen |  |
|  | Payroll Report |  |
|  | Settings Screen |  |
|  | Manage Power User |  |
|  | Pending Requests |  |
|  | Manage Requests |  |
|  | Request History |  |
|  | Cancel Request |  |
|  | Request on behalf of |  |

### Information Security and Compliance

| **DS ID** | **Use role** | **Frontend Permission** | **Backend Permission** |
| --- | --- | --- | --- |
|  | Beneficiary | Enrollment Screen and Approve and Reject Screen | Contribute without Delete permission |
|  | Manager | Enrollment Screen and Approve and Reject Screen | Contribute without Delete permission |
|  | Reviewer | Enrollment Screen and Approve Reject Screen | Contribute without Delete permission |
|  | Power user | Enrollment Screen, Approve and Reject Screen, Reports and Settings Screen | Full Control |
|  | System Admin | Enrollment Screen, Approve and Reject Screen, Reports and Settings Screen | Site Collection Admin |

## System Integration Detailed Design

### Beneficiary Module

### 

### Reviewer/Manager Module

### 

### Power User Module

### 

### AWS Schedule Jobs

### 

### Azure Web Jobs

### 

## System Performance

Define all capacity and sizing calculations, and how to calculate file and database sizes, system limits, and expected response times.

| **DS ID** | **Description** |
| --- | --- |
|  |  |
|  |  |
|  |  |

## Reports Design

### Solution Name: ESRAPayrolReport

#### Webpart Name: ESRAPayrolReport

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **OnLoad** | Load webpart content as   * Country:   List Name : Countries  Value : Title column |
|  | **OnLoad** | Download Button text should be displayed with:   * + **List name** : ApplicationConfiguration   + **Filter condition** : Key = Download button and country = current user country(default US)   + **Button text** : Value column |
|  | **Webpart Actions Download** | Get the file from following Location:   * 1. **Document Library name** : PayrollReports   2. **Filter condition** : Folder = Country Selected and Year = year Selected and Month =Month Selected |
|  | **Webpart Actions Download** | User should be able to download the file |

### Powerbi Enrollment Report Webpart

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **OnLoad** | Load grid data with following:   * 1. **List name** : StipendRequest   2. **Column to be shown in Grid**: Beneficiary, Requestor , Department, Requested Date, Reviewer, Date Reviewed ,Status, Policy Number |
|  | **OnLoad** | **Filter Options:** Beneficiary, Requestor, Department, Requested Date, Reviewer, Reviewed Date, Status |
|  | **Filter** | User can filter the grid by selecting any filter condition provided to get the refined data to be displayed. |

### Powerbi Summary Report Webpart

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **OnLoad** | User will be provided with Search box to select the user.  Enrolled Date range |
|  | **OnLoad** | Grid will be displayed.  **Column to be shown in Grid**: Reviewer, Enrolled Date, Stipend Amount |
|  | **Search** | Based on the user selected in the search box and date range selected, grid will display all the direct reportees of the user with their stipend amount from Stipend Request list and roll up stipend amount of the reportees |

## Database Design

# SharePoint lists will be maintained as backend to store the data and configuration related data of the application.

### Lists Schema

#### Countries

|  |  |  |
| --- | --- | --- |
| **DS ID** | **Column Name** | **Data Type** |
|  | Title | Single line of text |

#### Application Configuration

|  |  |  |  |
| --- | --- | --- | --- |
| **DS ID** | **Column Name** | **Data Type** | **Choice Options/Look up Details** |
|  | Key | Single line of text |  |
|  | Value | Multiline of text |  |
|  | Config Type | Single line of text |  |
|  | Country | Lookup | Look up from Countries list Title Column |
|  | links | Single line of text |  |
|  | Image URL | Single line of text |  |

#### Policy Configuration

|  |  |  |  |
| --- | --- | --- | --- |
| **DS ID** | **Column Name** | **Data Type** | **Choice Options/Look up Details** |
|  | Policy Document Url | Hyperlink |  |
|  | Active | yes/no |  |
|  | Country | Lookup | Look up from Countries list Title Column |
|  | Policy Type | Choice | Enrollment  Cancel |
|  | Role | Multi select | Beneficiary  Manager  Reviewer  Power user |

#### Mobile Device Plan Configuration List

|  |  |  |  |
| --- | --- | --- | --- |
| **DS ID** | **Column Name** | **Data Type** | **Choice Options/Look up Details** |
|  | Stipend Category | Choice | Basic  Standard  High |
|  | Stipend Description | Multiline of Text |  |
|  | Monthly Amount | Single line of text |  |
|  | Country | Lookup | Look up from Countries list Title Column |
|  | Active | yes/no |  |

#### Stipend Request

|  |  |  |  |
| --- | --- | --- | --- |
| **DS ID** | **Column Name** | **Data Type** | **Choice Options/Look up Details** |
|  | Beneficiary | Person |  |
|  | Beneficiary Type | Choice | Fulltime  Contractor |
|  | Beneficiary Job Grade | Single line of Text |  |
|  | Beneficiary Department | Single line of Text |  |
|  | Beneficiary Home Country | lookup | Look up from Countries list Title Column |
|  | Beneficiary Current Country | lookup | Look up from Countries list Title Column |
|  | Stipend Category | Single line of Text |  |
|  | Stipend Amount | Number |  |
|  | Agreement Accepted | yes/no |  |
|  | Request Date | Date |  |
|  | Request Type | Choice | Enroll  Update  Cancel |
|  | Requester | Person |  |
|  | Status | Choice | In progress  Approved  Rejected  Cancelled  Pre-Approved |
|  | Is Active | yes/no |  |
|  | Approval Reject Date | Date |  |
|  | Manager | Person |  |
|  | Policy Document Url | Person |  |
|  | Comments | Multiline of Text |  |

#### Email Templates

|  |  |  |
| --- | --- | --- |
| **DS ID** | **Column Name** | **Data Type** |
|  | Email Subject | Single line of text |
|  | Email Body | Multiline of Text |
|  | Notification Type | Single line of text |
|  | CC | Single line of text |
|  | To | Single line of text |

#### Payroll Reports Document Library

|  |  |  |
| --- | --- | --- |
| **DS ID** | **Column Name** | **Data Type** |
|  | Country | Folder |
|  | Month | Single line of text |
|  | Year | Single line of text |

### All data will be sourced from Lists created in

This section defines interfaces specifically related to the database, including interface purpose, characteristics, architecture, and specific design elements addressing data push and pull. Note: External interfaces are addressed in the External Interfaces section below.

| **DS ID** | **Description** |
| --- | --- |
|  |  |
|  |  |
|  |  |

### Database Management System Files

This section defines the design of the data files and includes the following information, as appropriate (refer to the data dictionary):

* Refined logical model; provide normalized table layouts, entity relationship diagrams, and other logical design information
* A physical description of the DBMS schemas, sub-schemas, records, sets, tables, storage page sizes, etc.
* Access methods (such as indexed, via set, sequential, random access, sorted pointer array, etc.)
* Estimate of the DBMS file size or volume of data within the file, and data pages, including overhead resulting from access methods and free space
* Definition of the update frequency of the database tables, views, files, areas, records, sets, and data pages; estimate the number of transactions if the database is an online transaction-based system

| **DS ID** | **Description** |
| --- | --- |
|  |  |
|  |  |
|  |  |

## Non-Database Management System Files

Define the design of all non-DBMS files, including details of the usage of each file; if the file is used for input, output, or both; if the file is a temporary file; an indication of which modules read and write the file, etc.; and file structures (refer to the data dictionary).The file structure information should:

* Identify record structures, record keys or indexes, and reference data elements within the records.
* Define record length (fixed or maximum variable length) and blocking factors. Define file access method, for example, index sequential, virtual sequential, random access, etc.
* Estimate the file size or volume of data within the file, including overhead resulting from file access methods.
* Define the update frequency of the file; if the file is part of an online transaction-based system, provide the estimated number of transactions per unit time, and the statistical mean, mode, and distribution of those transactions.

| **DS ID** | **Description** |
| --- | --- |
|  | Sample Payroll Report to be added here |
|  |  |
|  |  |

## Software

### Global Navigation

#### Solution Name : ESRATopNavigation

#### Webpart Name : ESRATopNavigation

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Global Navigation |
|  | **onLoad** | Check if user is power user : check if user is member of Power User group??  **if yes**  use site navigation to Show following.  Overview | Enroll | Approve/Reject | Reports | Settings |
|  | **onLoad** | **Else**  use site navigation to Show following.  Overview | Enroll | Approve/Reject | Reports |

### Stipend Enrollment Screen

#### Solution Name : ESRAEnrollement

#### Webpart Name: ESRABenefeciaryDetail

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Application Configuration list |
|  | **onLoad** | Display the current user display name. |
|  | **onLoad** | Based on the current user “country” system will pull content from application configuration list to be displayed  **Application Configuration list**  **Fields**  Key: “BasicStipendInfo”  Value:Value Column  Country:Current user country(Default US) |

#### Solution Name: ESRAEnrolledAddUpdateStipendDetail

#### Webpart Name: ESRABenefeciaryDetail

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Stipend Request, Mobile Device Plan Configuration, Policy Configuration, Email Templates |
|  | **onLoad** | If there are no pending/approved request for the current user in the StipendRequest list, then system will check if the current user is Full time /contractor employee.  getting current **Userprofile** information. |
|  | **onLoad** | If the user is Full time employee, Grid will be displayed with the stipend information pulled from MobileDevicePlanConfiguration list based on the current user country and link to Terms & condition will be displayed.  **MobileDevicePlanConfiguration** **list**  **Fields**  Stipend Category  Stipend Description  Stipend Amount |
|  | **onLoad** | If the user is Contractor, link to Terms & condition will be displayed.  Link to Terms & condition will be displayed based on the current user country, active |
|  | **onLoad** | Check if there are active Pending/Approved request for the current user in StipendRequest list  **StipendRequest List:** Filter list based on the Beneficiary=”current user” & Status=” Pending/Approved “& IsActive=”true” |
|  | **onLoad** | If there is any then the stipend request information will be displayed with option to Cancel/Update  **Stipend Request List** :  Beneficiary  Manager  VP  Stipend Amount  Request Status  Request Date &Time |
|  | **onLoad** | **Request History**  Show the version history data for selected beneficiary.   * 1. List name : StipendRequest   2. Filter condition : Item = Clicked item in grid and if item current version have status as “In progress” hide this version   3. **Column to be shown in Grid :** Requestor ,Requestor Type, Date requested, Status Reviewer, Date Approved /rejected , Policy umber ,Category , Monthly Stipend ,Comments |
|  | **Ok Click** | Close the version history popup |
|  | **Form Submit Controls** | **Terms & Condition link**  If user is Full time employee must Select on the Stipend category from the grid and click on the link “T & C link” and pop up will appear with the terms and condition which user must agree before enrolling for stipend |
|  | **Form Submit Controls** | Link to Terms & condition will be displayed based on the current user country, active status.  **PolicyConfiguration list**  **Fields**  PolicyDocumentUrl  Country |
|  | **Form Submit Controls** | If user is contractor click on the link “Click here to Agree Gilead Stipend terms and condition” and pop up will appear with the terms and condition which user must agree before enrolling for stipend |
|  | **Form Submit Controls** | Link to Terms & condition will be displayed based on the current user country, active.  **PolicyConfiguration list**  **Fields**  PolicyDocumentUrl  Country |
|  | **Request Enrollment Submit** | **Validation check:**  System will check if the user has selected one of the stipend categories and agreed to Terms & condition if not a validation will be displayed.  **Application Configuration list**  **Fields**  Key: “EnrollmentValidationmsg”  Value: value column |
|  | **Request Enrollment Submit** | **Stipend Enrollment**  Once user click on Request enrollment the system will store all the user related data,  **Stipend Request list**  **Fields**   |  | | --- | | Beneficiary =CurrentUser | | Beneficiary Type=fulltime/contractor | | Beneficiary Job Grade=Currentuser profile | | Beneficiary Department= Currentuser profile | | Beneficiary Home Country= Currentuser profile | | Beneficiary Current Country= Currentuser profile | | Stipend Category=user selection | | Stipend Amount= user selection | | Agreement Accepted= user selection | | Request Date=CurrentDate | | Request Type=Enrollement | | Status=In progress | | IsActive=yes | | Reviewer= | | Manager= | | PolicyDocumentUrl=based on current user country-based policy | |
|  | **Request Enrollment Submit** | Grid will be displayed with stipend pending request details that user has selected.  **Stipend Request List**  **Fields**  Beneficiary  Manager  VP  Stipend Amount  Request Status  Request Date &Time |
|  | **Request Enrollment Submit** | Sending notification to Manager  **Email Templates:**  **Fields:**  Email Subject  Email Body  TO  CC |
|  | **Update Request** | On clicking the update request the user will be provided with stipend information grid to change the stipend category and must agree to the terms and condition before enrolling for the new stipend.  **Mobile Device Plan Configuration** **list**  **Fields**  Stipend Category  Stipend Description  Stipend Amount |
|  |  | System will update record in the stipend Request list with the new selected category and Terms and condition and send notification to the Manager.  **Stipend Request list**  **Fields**   |  | | --- | | Stipend Category=User selection | | Stipend Amount=User Selection | | Request Date=Current date | | Request Type=Update | | Status=In progress | | PolicyDocumentUrl= based on current user country based policy | |
|  | **Cancel Request** | On clicking the Cancel request a pop up appears with a message about request being cancelled. |
|  | **Cancel Request** | System will update status of the record and make the request inactive.  **Stipend Request list**  **Fields**   |  | | --- | | Request Date=Current Date | | IsActive=No | | Status=Cancelled | | Comments=user input | |
|  | **Cancel Request** | User will be displayed the stipend information grid if you are the full-time employee and Terms and condition link  **Mobile Device Plan Configuration** **list**  **Fields**  Stipend Category  Stipend Description  Stipend Amount |

### Approve/Reject Screen

#### Solution Name: ESRAPendingRequest

#### Webpart Name: ESRAPendingRequests

| **DS ID** | | **Description** | | |
| --- | --- | --- | --- | --- |
|  | | **Source** | Stipend Request, Application Configuration, Email Templates | |
|  | | **OnLoad** | 1. Load grid data with following:  * **List name**: StipendRequest * **Filter condition**: Status = In progress and Request type = Enrolled and Reviewer = Current user * **Column to be shown in Grid**: Beneficiary, Stipend Type, Request Date, Beneficiary Department | |
|  | | **Approve Click** | Validation**:**  At least 1 request should be selected.  if not: print validation message | |
|  | | **Approve Click** | Check for the maximum request selection.  if not: print validation msg | |
|  | | **Approve Click** | Open a popup for comments: | |
|  | | **Close on Modal Popup** | Close the popup. | |
|  | | **Submit click on Modal Popup** | | Update the Selected items in Stipend list with:   * Status to Approved. * Approval Reject Date to today date. * Comments to User comments * Send mail to Beneficiary. * Close the popup. * Rebind the grid. |
|  | | **Reject Click** | | Validation**:**  At least 1 request should be selected.  if not: print validation message |
|  | | **Reject Click** | | Check for the maximum request selection.  if not: print validation msg |
|  | | **Reject Click** | | Open a popup for comments |
|  | | **Close on Modal Popup** | | Close the popup |
|  | | **Submit click on Modal Popup** | | Update the Selected items in Stipend list with   * Status to Reject. * Approval Reject Date to today date. * Comments to User comments * Send mail to Beneficiary. * Close the popup. * Rebind the grid |

#### Solution Name: ESRACompletedRequests

#### Webpart Name: ESRACompletedRequests

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Stipend Request, Application Configuration |
|  | **OnLoad** | 1. Load grid data with following:  * **List name**: StipendRequest * **Filter condition**: Status! = In progress and Request type = Enrolled and Reviewer = Current user * **Column to be shown in Grid:** Column to be shown in Grid: Beneficiary ,Stipend Type, date Approved /Rejected Status, Department History |
|  | **Webpart Actions - Export to Excel** | Export the grid data in excel format with following columns: Beneficiary, Stipend Type, date Approved /Rejected Status, Department |
|  | **Click -Request Version History** | 1. Show the version history data for selected beneficiary.  * List name: Stipend Request * Filter condition: Item = Clicked item in grid and if item current version have status as “In progress” hide this version * Column to be shown in Grid: Requestor, Requestor Type, Date requested, Status Reviewer, Date Approved /rejected , Policy umber ,Category , Monthly Stipend ,Comments |
|  | **Ok Click -Request Version History** | Close the version history popup |

### Reports Screen

#### Solution Name: ESRAReports

#### Webpart Name: ESRAReportTabs

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Application Configuration |
|  | **OnLoad** | Load data with following:   * **List name**: ApplicationConfiguration * **Filter condition**: Key = Reports Tab and country = current user country |
|  | **OnLoad** | **Create tabs with:**   * 1. Tab Name: value field   2. Navigation Link: url field   3. Background / tab Image: image URL |
|  | **Webpart Actions**  Click on tabs | Navigate to the link url |

#### Solution Name: ESRAPayrolReport

#### Webpart Name; ESRAPayrolReport

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Application Configuration, Payroll Reports |
|  | **OnLoad** | Load webpart content as  Country:  **List Name**: Countries  **Value**: Title column |
|  | **Webpart Actions Download** | Get the file from following Location:   1. **Document Library name**: Payroll Reports 2. **Filter condition**: Folder = Country Selected and Year = year Selected and Month =Month Selected |
|  | **Webpart Actions Download** | User should be able to download the file |

### Settings Screen

#### Solution Name: ESRASettings

#### Webpart Name: ESRASettingTabs

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Application Configuration |
|  | **OnLoad** | Load webpart content with following details:   * **List name**: Application Configuration * **Filter condition**: Key = Settings Tab and country = current user country |
|  | **OnLoad** | **Create tabs with:**   * Tab Name: value field * Navigation Link: url field * Background / tab Image: image URL |
|  | **Webpart Actions - Click on tabs** | Navigate to the link url |

### Manage Power Users Screen

#### Solution Name: ESRAManagePowerUsers

#### Webpart Name: ESRAManagePowerUsers

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Stipend Request, Application Configuration |
|  | **OnLoad** | Load webpart content with following details:   * **Group name**: Power User group * **Column to be shown in Grid**: Email and Display Name |
|  | **Webpart Actions**  **Add click** | Validation**:**  validate people picker with empty value if yes show validation message |
|  | **Add click** | check if user is already existing in the group. |
|  | **Add click** | if yes show message user already exists |
|  | **Add click** | Add user in the Group.  Re-bind the grid |
|  | **Delete Click** | Validation**:**  Confirm: "Are you sure to delete the user" |
|  | **Delete Click** | Close: Close the confirmation box |
|  | **Delete Click** | Delete the user from group.  Rebind the grid |

### Manage Pending Requests Screen

#### Solution Name: ESRAManagePendingRequests

#### Webpart Name: ESRAManagePendingRequests

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Stipend Request, Application Configuration, Email Templates |
|  | **OnLoad** | Load grid data with following:   * 1. **List name**: StipendRequest   2. **Filter condition**: Status = In progress and Request type = Enrolled   3. **Column to be shown in Grid**: Beneficiary, Stipend Type, Request Date, Reviewer |
|  | **Webpart Actions**  **Approve Click** | Validation**:**  At least 1 request should be selected.  if not: print validation message |
|  | **Approve Click** | Check for the maximum request’s selection.  if not: print validation msg |
|  | **Approve Click** | Open a popup for comments |
|  | **Close click on popup** | Close the popup. |
|  | **Submit click on popup** | Update the Selected items in Stipend list with   * Status to Approved. * Approval Reject Date to today date. * Comments to User comments * Send mail to Beneficiary. * Close the popup. * Rebind the grid. |
|  | **Reject Click** | Validation**:**  At least 1 request should be selected.  if not: print validation message |
|  | **Reject Click** | Check for the maximum request’s selection.  if not: print validation msg |
|  | **Reject Click** | Open a popup for comments: |
|  | **Close click on popup** | Close the popup. |
|  | **Submit click on popup** | Update the Selected items in Stipend list with   * Status to **Rejected**. * Approval Reject Date to today date. * Comments to User comments * Send mail to Beneficiary. * Close the popup. |
|  | **Submit click on popup** | Rebind the grid. |
|  | **Export to Excel** | Export the grid data in excel format with following columns: Beneficiary , Stipend Type, Date Requested , Reviewer |

### Manage Requests Screen

#### Solution Name: ESRAManageRequests

#### Webpart Name: ESRAManageRequests

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Application Configuration, Stipend Request |
|  | **OnLoad** | Load grid data with following:   * 1. **List name**: Stipend Request   2. **Filter condition**: Status = Approved or Auto Approved and Request type = Enrolled   3. **Column to be shown in Grid**: Beneficiary, Approval Reject Date, Policy Number |
|  | **Webpart Actions**  **Opt-Out/Cancel Click** | Open a popup for comments |
|  | **Close click on the popup** | Close the popup. |
|  | **Ok click on the popup** | Update the Selected items in Stipend list with   * Status to Cancelled. * Approval Reject Date to today date. * Comments to User comments * Send mail to Beneficiary. * Close the popup. * Rebind the grid. |
|  | **Click Request Version History** | Show the version history data for selected beneficiary.   1. **List name:** Stipend Request 2. **Filter condition:** Item = Clicked item in grid and if item current version have status as “In progress” hide this version 3. **Column to be shown in Grid:** Requestor, Requestor Type, Date requested, Status Reviewer, Date Approved /rejected , Policy umber ,Category , Monthly Stipend ,Comments |
|  | **Ok Click on Request Version History** | Close the version history popup. |
|  | **Search Click** | Check if search string is not empty. |
|  | **Search Click** | Filter grid data based on Following columns:   1. Beneficiary, Date approved, Policy number. |

### RequestOnBehalf Screen

#### Solution Name: ESRARequestOnBehalf Solution

#### Webpart Name: ESRARequestOnBehalf Webpart

| **DS ID** | **Event** | **Description** |
| --- | --- | --- |
|  | **Source** | Stipend Request, Mobile Device Plan Configuration, Email Templates |
|  | **onLoad** | Power user will be provided with People picker control to select a beneficiary for stipend request. |
|  | **onLoad** | Grid will be displayed with the stipend information pulled from Mobile Device Plan Configuration list based on the selected beneficiary country.  **Mobile Device Plan Configuration list**  **Fields**  Stipend Category  Stipend Description  Stipend Amount |
|  | **Submit Click** | **Validation check:**  System will check if the user has selected one of the stipend categories and agreed to Terms & condition if not a validation will be displayed.  **Application Configuration list**  **Fields**  Key: “EnrollmentValidationmsg”  Value: value column |
|  | **Submit Click** | Once user click on Approve & Submit button, the system will store all the stipend related data,  **Stipend Request list**  **Fields**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | Beneficiary=user selected from people picker | | Beneficiary Type=full time/contractor | | Beneficiary Job Grade= user selected profile information | | Beneficiary Department= user selected profile information | | Beneficiary Home Country= user selected profile information | | Beneficiary Current Country= user selected profile information | | Stipend Category= user selection | | Stipend Amount= user selection | | Request Date=current date | | Request Type=enrollment | | Requester=current user | | Status=Pre-Approve | | IsActive=Yes | | Approval Reject Date=Current Date | | |
|  | **Submit Click** | Send mail to Beneficiary with link to T&C check.  **Email Templates:**  **Fields:**  Email Subject  Email Body  CC |
|  | **Submit Click** | Power user will be redirected to Manage request screen and notification will be sent to the beneficiary |

### Common Functions

#### Solution Name: ESRAServices

#### Library Name: ESRAServices

| **DS ID** | **Function** | **Description** |
| --- | --- | --- |
|  | **ESRAListOperations**  **GetAllData(listName)** | Returns collection of all items in the list provided in the function call |
|  | **GetItemByID(listname,ID)** | Returns a particular record from the list based on item ID provided in the function call |
|  | **GeItemByFliter(Listname,filtercondition)** | Returns collection of item/items from the list based on the filter condition provided in the function call |
|  | **GetItmeVersion(Listname,ItemID)** | Returns version history of the record from the list based on the item ID provided in the function |
|  | **CreateItem(ListName,Data)** | Creates a new item in the list based on the data provided in the function call |
|  | **UpdateItemByID(Listname,ID,Data)** | Updates an item in the list based on the item ID and data provided in the function call |
|  | **UpdateBatchItems(Listname,data)** | Updates batch of items in the list based on the data provided in the function call |

| **DS ID** | **Function** | **Description** |
| --- | --- | --- |
|  | **ESRAUserInfo**  **isCurrentUserMemberOfGroup(user)** | Checks if the User is member of group provided in the function call |
|  | **CheckUserCountry(user,country)** | Check if user belongs to country provided in the function call |
|  | **getUserInfo(user)** | Get all the user information of the User provided in the function call |

| **DS ID** | **Function** | **Description** |
| --- | --- | --- |
|  | **ESRACommonOperations**  **ExportToExcel(Data)** | Export’s content provided in the function call to excel |

| **DS ID** | **Function** | **Description** |
| --- | --- | --- |
|  | **ESRALogger**  **ErrorLog(exception)** | Log the Exception |

| **DS ID** | **Function** | **Description** |
| --- | --- | --- |
|  | **ESRAEmailServices**  **Sendemail(To,CC,sub,body)** | Send notifications based on the information provided in the function call |

| **DS ID** | **Function** | **Description** |
| --- | --- | --- |
|  | **ESRAGroupOperations**  **AddUserToGroup(Groupname,user)** | Adding a user to SharePoint group provided in the function call |
|  | **RemoveUserfromGroup(Groupname,User)** | Remove a user from SharePoint group provided in the function call |

## Configuration Specification

### The Application configuration list will maintain the configuration data related to the application.

### **ApplicationConfiguration List**

| **DS ID** | Key | ***Value*** | ***Description*** |
| --- | --- | --- | --- |
|  | NonUSMsg | Value column | Message to displayed when Non-US user login |
|  | DeviceEnrolmentSteps | Value column | Link to the device enrollment steps |
|  | PayrolltabText | “Payroll Report” |  |
|  | EnrollmenttabText | “Enrollment Report” |  |
|  | SummarytabText | “Stipend Summary Report” |  |
|  | ManagepowertabText | “Manage Power Users” |  |
|  | PendingtabText | “Pending Requests” |  |
|  | ManagetabText | “Manage Requests” |  |
|  | OnbehalftabText | “Request on behalf of” |  |

# Stage 3: Final Design

## Data Migration Plan

Address the high level strategy for data migration.

## Retirement Plan

Address the high level strategy for retirement.

## User Profiles

### System Users Profiles

| **DS ID** | **Type of User** | **User Functions** |
| --- | --- | --- |
|  | Beneficiary | Enroll/Update/Cancel |
|  | Manager | Approve/Reject |
|  | Reviewer | Approve/Reject |
|  | Power user | Enroll/Update/Cancel/Delete/Approve/Reject |
|  | System Admin | Full Control |

### Performance and Capacity

Provide a list of the system’s performance requirements, including:

* The minimum number of total users and concurrent users the system will have the ability to handle
* The projected numbers of total users and concurrent users the system will have the ability to handle
* The system will support a minimum response time of X seconds for authentication of users.

Describe the solution to these performance and capacity requirements.

Will follow performance and capacity guidelines defined for GShare Platform

| **DS ID** | **Description** | **Solution** |
| --- | --- | --- |
| *DS-040* | The system will have the ability to handle a minimum of <# X> total users and <# X-Y> concurrent with projected number of <# X> total users and <# Y> concurrent users. |  |
| *DS-041* | The system will support a minimum response time of 5-7 seconds for authentication of users. |  |
| *DS-042* |  |  |

## Disaster Recovery

Provide a list of system’s disaster recovery requirements, including:

* The system will be supported by a disaster recovery process.
* Recovery Time Objective (RTO) has been specified by the business owners is X hours in the event of a major disaster and Recovery Point Objective (RPO) is at X days

Describe the solution to these disaster recovery requirements and/or reference the system’s disaster recovery plan document.

| **DS ID** | **Description** | **Solution** |
| --- | --- | --- |
| *DS-043* |  |  |
| *DS-044* |  |  |
| *DS-045* |  |  |

## Business Continuity

Provide a list of system’s business continuity requirements, including:

* The system will have X% uptime with combined planned and unplanned outages.

Describe the solution to these business continuity requirements and/or reference the system’s business continuity plan document.

| **DS ID** | **Description** | **Solution** |
| --- | --- | --- |
| *DS-046* |  |  |
| *DS-047* |  |  |
| *DS-048* |  |  |

## Maintainability

Provide a list of system’s maintenance requirements, including:

* List the system names for server maintenance schedules for both the production and the design requirements instance.
* Application patches and upgrades
* Application Servers monitored for disk space, CPU and memory utilization

Describe the solution to these maintenance requirements and/or reference the system’s operations and maintenance procedures document.

| **DS ID** | **Description** | **Solution** |
| --- | --- | --- |
| *DS-049* |  |  |
| *DS-050* |  |  |
| *DS-051* |  |  |

## Testing

Provide a list of the system’s testing requirements and describe the solution to these requirements. Include design considerations for testing.

Refer document <<>> for testing approach and test cases

| **DS ID** | **Description** | **Solution** |
| --- | --- | --- |
| *DS-052* |  |  |
| *DS-053* |  |  |
| *DS-054* |  |  |

# References

List all documents referred to by the specification

| **Document ID** | **Document Title** |
| --- | --- |
| ITD-0289 | Lexicon of Computer Technology |

# Final Design Specification Approvals

| **Signature** | **Role** | **Date** |
| --- | --- | --- |
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| REVISION HISTORY | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Rev.** | | **Effective Date** | **Author** | **Description of Changes** | **Justification for Changes** |
| 1.0 | | <See eQMS> | F. Last Name | 1. New. | 1. New. |