Technical Document

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| --- | --- |
| Project Title | User Request Management |
| Project Code | FR2018.05 |
| Client | Freelancer |
| Credit | Hai Nguyen / KAIKO VIETNAM |

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| --- | --- | --- | --- | --- |
| Date Created | Version | Created By | Updated By | Comment |
| May/23/2018 | 1.0 | Hai Nguyen |  |  |
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# Description

This document provides the technical to implement this project. Developer can follow to update or customize and deploy this project as manually.

# Project Structure

## Lists

### UserRequest

**Settings**

|  |  |
| --- | --- |
| List Name | UserRequest |
| Type | Custom |
| Settings | * Enable Content-type: Yes * Launch form dialogs: No |
| Content Types | Item: this content type needs to set as follow   * Title: show as required * Requestor: show as required * Mobile: show as optional * Employee ID: show as optional * Details: show as optional * Status: hidden * Action By: hidden * Action Date: hidden |

**Columns**

|  |  |  |
| --- | --- | --- |
| Field Name | Type | Options |
| Title (Company) | Text | Required |
| Requestor | People | Required |
| Mobile | Text | Default |
| Employee ID | Text | Required |
| Details | Multiple Text | Default |
| Status | Choice (Submitted, Approved, Rejected) | Default |
| ManagerApprovedBy (Display Name: Action By) | People | Default |
| ManagerApprovedDate | Datetime | Default |
| Comment | Multiple Text | Default |

### Email Templates

**Settings**

|  |  |
| --- | --- |
| List Name | Email Templates |
| Type | Custom |
| Settings | * Default |
| Content Types | * Default |

**Columns**

|  |  |  |
| --- | --- | --- |
| Field Name | Type | Options |
| Title | Text | Required |
| Body | Multiple Text | Default |
| Receiver | Text | Default |

### Configuration

**Settings**

|  |  |
| --- | --- |
| List Name | Configuration |
| Type | Custom |
| Settings | * Default |
| Content Types | * Default |

**Columns**

|  |  |  |
| --- | --- | --- |
| Field Name | Type | Options |
| Title | Text | Required |
| Manager | People | Single user, default |
| TransportAdmin | People | Single user, default |

### Site Assets

This library is to store the data source files

|  |  |
| --- | --- |
| File Name | Type |
| Highcharts.js | JavaScript |
| No-data-to-display.js | JavaScript |
| Pie-chart-icon-83516.png | Image |
| Prerender.js | JavaScript |
| Proceed.html | Html |
| RequestStatistics.js | JavaScript |
| RequestTracker.js | JavaScript |
| spJQRequest.js | JavaScript |
| tabMenu.js | JavaScript |
| Urlist.css | StyleSheet |
| Urlist.html | Html |
| Urnew.html | Html |
| Urview.html | Html |

### Site Pages

This library is to store the page of site

|  |  |
| --- | --- |
| File Name | Type |
| Home.aspx | ASPX |
| NewRequest.aspx | ASPX |
| ViewItem.aspx | ASPX |
| Approved.aspx | ASPX |

### External Resources

All these resources are using CDN directly on the internet. They are completely free to use as GNU.

|  |  |
| --- | --- |
| File | Link |
| Bootstrap Stylesheet | <https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css> |
| Bootstrap themes stylesheet | <https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap-theme.min.css> |
| Bootstrap JS | <https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js> |
| Font awesome stylesheet | <https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css> |
| jQuery JS | <https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js> |
| jQuery UI stylesheet | <https://ajax.googleapis.com/ajax/libs/jqueryui/1.12.1/themes/smoothness/jquery-ui.css> |
| jQuery UI JS | <https://ajax.googleapis.com/ajax/libs/jqueryui/1.12.1/jquery-ui.min.js> |
| Highcharts JS | License: [www.highcharts.com/license](http://www.highcharts.com/license) |
| HighChart No Data to display | License: [www.highcharts.com/license](http://www.highcharts.com/license) |
| spRequest JS | <https://www.plusconsulting.com/blog/2013/05/crud-on-list-items-using-rest-services-jquery> |
|  |  |

### Workflows

We use the REST API to implement the workflow instead of using workflow OOTB.

|  |  |
| --- | --- |
| Step | Details |
| * User click on Add New Request * Click Save button | * Save the request to UserRequest list:   + Validate the form. Show error if any   + Save form * Send email to Manager.   + Get the manager account/email from Configuration list   + Get email content in the Email Template with receiver is Manager   + Send mail to Manager |
| * Manager read the email * Manager click on View Item link | * Open the link to view item: viewitem.aspx?rid=[Number] |
| * Manager read the email * Manager click on Proceed link | * Open the link to approve/reject the request: approve.aspx?rid=[Number]   + If Approve option is selected. Click Submit and save the approval.   + Set status is Approved.   + Send mail to Transport Admin   + If Reject option is selected. Click Submit and validate the form to make sure that comment is entered.   + Set status is Rejected.   + Send mail to Requestor. |