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**[D365 finance and operations]  ARADA**

**Technical design document**

**for**

**IT-223 |** **I-Expense: An alert every 15 days to the petty cash holder and the manager with the outstanding cash advance details**

**Revision and Signoff Sheet**

**Change Record**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Author | Version | Change reference |
| 1/2/2023 | Danial Dadmohammadi | 1.0.0 | Task 223: I-Expense: An alert every 15 days to the petty cash holder and the manager with the outstanding cash advance details. |

**Reviewers**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Version reviewed | Position | Date |
| Nagendra Chitturi | 1.0.0 | Solution Architect |  |

**Approvers**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Version reviewed | Position | Date |
| Awad | 1.0.0 | Senior Manager – Enterprise solutions |  |

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1. Overview

## Objective

## Creating an alert every 15 days to the petty cash holder and the manager with the outstanding cash advance details.

## References

|  |  |  |  |
| --- | --- | --- | --- |
| ZOHO ID | Manage Engine ID | Description | Owner |
| -- | -- | I-Expense: An alert every 15 days to the petty cash holder and the manager with the outstanding cash advance details. | Danial |

## Purpose and Overview

At the I-Expense module, finance team needs to handle the outstanding cash advance details using an email notification. So, every 15 days, an alert sends to the petty cash holder and the manger to check the outstanding cash advance details. All the required information like employee name, email, date of advance, cash advance and so on are sent to through the email.

## Requirement Overview

## Requirement from finance team to send email notifications for outstanding cash advance details.

## Solution Overview

* We have created a new business event in the “Human Resource” module for handling the notification sending.
* Also, a batch job has been created to check the conditions for triggering the business event. If the difference between ‘day delay’ and ‘day delay line manager’, has been set in the TrvParameters form, is more than 15 days then the Business Event will be fired and email notifications will be sent.

Following are the objects that are involved in the development process.

Soloution name: AR\_CashAdvanceReport\_ddm

Project name: AR\_CashAdvanceReportBatchJob\_ddm

**Classes:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| ARCashAdvanceOutstandingJobBusinessEvent | Xtend from the “BusinessEventsBase” to handle the core logic of the B.E |
| ARCashAdvanceOutstandingJobBusinessEventContract | The data contract class for a “ARCashAdvanceOutstandingJob” business event. |
| ARCashAdvanceOutstandingJobBusinessEventTrigger | A class event handler inserted on the “ARCashAdvanceOutstandingJobTmp” table |
| AR\_SysOperationController\_CashAdvOutBatchJob | A class for controller of the batch job |
| AR\_SysOperationService\_CashAdvOutBatchJob | A class for process operation logic in the batch job |

**Action Menu Items:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| AR\_ExpenseMgmt\_RunBatchJob | To run the batch job |

**Display Menu Items:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| ARSentEmailCashAdvanceOutstanding | To pen the form “ARCashAdvanceBatchJobResult” |

**Form Extensions:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| TrvParameters.ISLDEV | Adding a new field on the form as a day delay and days delay line manager |

**Menu Extensions:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| TravelAndExpense.ISLDEV | To add the menuitem “ ARSentEmailCashAdvanceOutstanding” |

**Tables:**

|  |  |
| --- | --- |
| **Object name** | **Purpose** |
| ARCashAdvanceOutstandingJobTmp | -- |
| TrvParameters.ISLDEV | Adding the cash advance parameters |

### Security design

## Security Roles

|  |  |  |
| --- | --- | --- |
| **Name** | **Duties** | **Addl Remarks** |
| -- | -- | -- |

## Duties

|  |  |  |
| --- | --- | --- |
| **Name** | **Privileges** | **Addl Remarks** |
| -- | -- | -- |

## Privileges

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Entry Points** | **DATA entity permission** | **Access Level** | **Addl Remarks** |
| AR\_ExpenseMgmt\_RunBatchJobSP | AR\_ExpenseMgmt\_RunBatchJob | -- | Unset | -- |
| ARSentEmailCashAdvanceOutstandingSP | ARSentEmailCashAdvanceOutstanding | -- | Unset | -- |

## Process Cycles

|  |  |  |
| --- | --- | --- |
| **Name** | **Duties** | **Addl Remarks** |
| -- | -- | -- |