**Project 1 – STAR Project**

**Project Description**

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| **Project Details:**  The team members working in non-standard shift get a shift allowance. This is calculated based on the attendance information collated by team leads. Currently, the process of calculating and validating this information is manual and involves Excel and email.  The objective is to build a web application that uses the attendance data exported from MS Dynamics as input and generates the shift allowance report. The application would also build in authorization flow for validation and approval of this report.  **Scope**   * Implement role-based authentication in the app based on User entitlements * Provide user ability to view/export report * Create a data model based on the report requirements * Implement batch job to fetch time-tracking information from MS Dynamics and upload relevant tables | | | | | | |
| Project Code: |  | | Project Name: | | STAR App | |
| Duration : | 4 Weeks | | Release Date: | | TBD | |
|  | | | | | | |
| Project Content: **LOGIN SCREEN AND HOME PAGE**  * Role based authentication to be implemented based on profile setup in the user DB for existing users * New User can request access by clicking on “Request Access” link. * Types of roles:   + User – Generate/View/Export Report   + Developer – Perform DB operations   + Administrator – All functions performed by User & Developer, perform User Management * Navigation   + User – Navigate to Dashboard page   + Administrator – Navigate to User Admin page    **USER ADMIN PAGE**  * Landing page for users with *Admin* role * Features   + View status of all users of the app   + Approve new user access requests   + Change access level and status * All columns can be sorted in ascending or descending order * Default view – Show latest requests on top    **DASHBOARD PAGE**   * Landing page for users with *User* role that displays list of Monthly Allowance report and their status (*Approved / Unapproved*) * Clicking on the report name takes the user to the *Allowance Dashboard* page * Features   + Displays list of Allowance reports and their status   + View and edit attendance/allowance related information   + Sortable columns – Name & SAP ID   + Approve and download the data in CSV format * Field definitions  |  |  | | --- | --- | | Project | Dropdown with values "Digital", "Enterprise Platforms", "CET" and "Data" | | Period | Dropdown with "Start date - End date" values | | Name | Fetched from DB (non-editable) | | SAP id | Fetched from DB (non-editable) | | Project Hours | Fetched from DB (non-editable) | | Holiday / leaves hours | Fetched from DB (non-editable) | | Afternoon Shift Days | Populated by default (editable); Project Hours / 8 | | Night Shift Days | Default value 0 (editable) | | Days eligible for TA | Default value is sum of afternoon shift days and night shift days (editable) | | Transport Allowance | Days eligible for TA \* TA (non-editable) | | Total Allowance | Calculated field (non-editable) | | Approve & Download | Export all records in CSV format and updates the report status to “Approved” |    **INPUT DATA**  * Design Data model as per the reporting and user profile requirements * Time tracking report from MS Dynamics to be used as input * Massage the data as per reporting requirements and upload in the DB * Sample Report from MS Dynamics    **PROCESS FLOW**  **TECHNOLOGY STACK**  |  |  |  |  | | --- | --- | --- | --- | |  | Option 1 | Option 2 | Option 3 | | Front end | React JS | React JS | React JS | | Back end | .Net Core, MySQL | Spring Boot, Spring Security, Spring Web, Spring JPA, Hibernate, MySQL, Tomcat, Rest APIs | Python, Django, MySQL | | Infrastructure | AWS | AWS | AWS | | | | | | | |
| Known Issues / Defects/ Features in Project: | | | | | | | |
| Prepared By | | Nayan J Kar | | Date: | |  | |
| Review Details: | | | | | | | |
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