**Employee Management System**

**Abstract:**

Employee Management System will have below functionalities

1. Manage Employee Details – Add/Edit/Delete

Role with Admin privilege can perform these activities

1. Upcoming Birthdays
2. Daily Status Activities
   1. Every employee will have a login wherein they will be able to enter their Daily Status
   2. Admin user will be able to view/edit/delete the Daily Activity
   3. User will be able to download the Report In XLS/CSV format
3. Cron job to send Auto Sms and Email on Birthday.

**Technology Stack:**

1. Angular
2. Bootstrap
3. CSS3
4. HTML5
5. Java 8
6. Spring Boot Micro services
7. Postgresql

**Development Tools Required**

1. JDK 1.8
2. Visual Studio Code
3. Spring Tool Suite/Eclipse
4. Postgresql
5. Dbeaver

**Cloud Platform:**

Application will be deployed to Cloud platform: Heroku (heroku.com)

**Data Model:**

1. **Table: ems\_tbl\_employee**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No** | **Column Name** | **Data Type** | **Column Description** |
| 1 | ems\_employee\_eid(PK) | Integer | Employee Id |
| 2 | ems\_employee\_name | Varchar2(30) | Employee Name |
| 3 | ems\_employee\_assetid | Varchar2(15) | Employee Asset Id |
| 4 | ems\_employee\_seatno | Varchar2(15) | Employee Seat No |
| 5 | ems\_employee\_contactno | Integer | Employee Contact No |
| 6 | ems\_employee\_address | Varchar2(300) | Employee Address |
| 7 | ems\_employee\_alternate\_contactno | Integer | Employee Alternate Contact No |
| 8 | ems\_employee\_emailid | Varchar2(30) | Employee Email Id |
| 9 | ems\_employee\_birthdate | Date | Employee Birth Date |
| 10 | ems\_isAdmin | boolean | Employee isAdmin or not |
| 11 | ems\_isActive | boolean | Employee is active or not |

1. **Table : ems\_tbl\_dailyactivity**

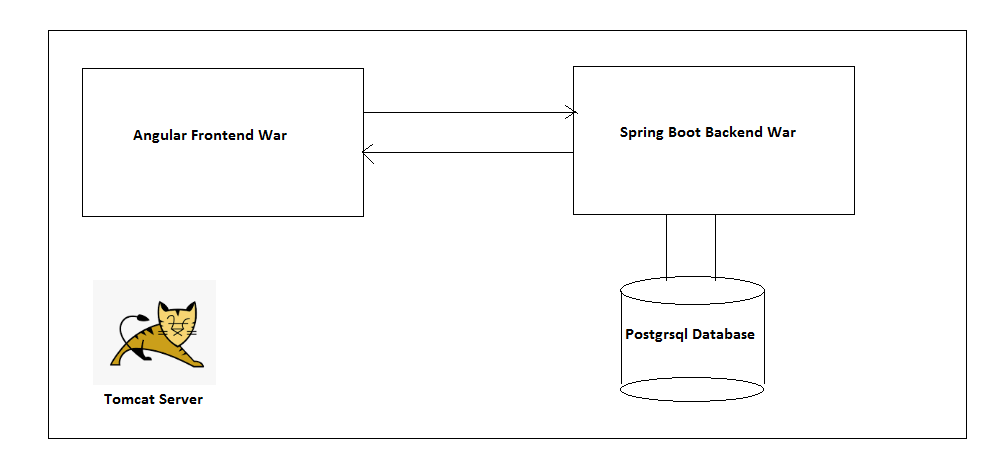
|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No** | **Column Name** | **Data Type** | **Column Description** |
| 1 | ems\_dailyactivity\_id(PK) | Integer | Auto Generated Id |
| 2 | ems\_dailyactivity\_eid(FK -> ems\_employee\_eid of ems\_tbl\_employee) | Integer | Employee Id |
| 3 | ems\_dailyactivity\_ename | Varchar2(30) | Employee Name - Removed |
| 3 | ems\_dailyactivity\_activitydesc | Varchar2(500) | Activity Description |
| 4 | ems\_dailyactivity\_activitytype | Varchar2(30) | Activity Type |
| 5 | ems\_dailyactivity\_activitysubtype | Varchar2(30) | Activity Sub Type |
| 6 | ems\_dailyactivity\_module | Varchar2(50) | Module-MP,CP,EBP,CMS,CBS,IR |
| 7 | ems\_dailyactivity\_environment | Varchar2(10) | Environment-DEV/UAT/STG/PROD |
| 8 | ems\_dailyactivity\_itemid | Varchar2(15) | Bugzilla Id / JIRA No |
| 9 | ems\_dailyactivity\_actualefforts | Varchar2(2) | Efforts Spent |
| 10 | ems\_dailyactivity\_status | Varchar2(10) | Activity Status |
| 11 | ems\_dailyactivity\_work | Varchar2(10) | Work/Non-Work |
| 12 | ems\_dailyactivity\_comments | Varchar2(100) | Comments |

**Sample Data:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **Team  member** | **Activity** | **Activity Type** | **Activity Sub Type** | **Application** | **Module** | **Environment** | **Item Id** | **Actual Efforts (In hrs)** | **Status** | **Work /  Non-Work** | **Comments** |
| 30-Aug-20 | Amit | Breaks : Lunch / Snacks others | NA | Breaks | NA | NA | NA | NA | 0.75 | Completed | Non-Work |  |
| 30-Aug-20 | Amit | Future Dated Order Processing | Development | New  Development | Margin Pledge | Margin Pledge | Dev | <JIRA Id> | 4 | Completed | Work |  |
| 30-Aug-20 | Amit | ACA Discussion | Development | New  Development | Margin Pledge | Margin Pledge | Dev | <JIRA Id> | 5 | Completed | Work |  |

1. **Date : date Component : calendar picker**
2. **Team Member : Dropdown : populate value using login user**
3. **Activity : free text box**
4. **Activity Type : Dropdown : from table/ harcoded values**
5. **Activity Subtype : dropdown**
6. **Application : dropdown**
7. **Module : dropdown**
8. **Environment : dropdown**
9. **Item id : free text**
10. **Actual Efforts in hrs: free text**
11. **Status: dropdown**
12. **Work / Non Work: dropdown**
13. **Comments: text area**

**Architecture Diagram:**

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