ENTTERPRISE PERFORMANCE ANALYSIS TOOL

Business Case: The purpose of this product emphasis on managing the monthly report of the performance of an Employee by Product manager. This strengthens the progress of the work of an Employee.

Case Study:

The Objective of this case study is to help the Product managers of various departments of an Enterprise to manage the monthly record of the performance of the employees in their team, which in turn could be achieved by logging on to their account and clicking the Load Departments to get their departments loaded from the database.

Technology and Tools used for this business case:

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| --- | --- |
| Environment, Tools | Environment and tools used for this business case |
| IDE | Eclipse |
| Front End | HTML |
| Back End -DB | Oracle 11g |
| Application | Spring Boot(MVC) |
| Web services | RESTful |
| Build tool | Maven |
| Testing tool | JUnit |
| Programming Languages | Java, SQL |
| Connection | JDBC, J query, Ajax |

DEVOPS PROCESS

V.C- GIT

USER STORIES

USERS

PROD

TEST

QA

BUILD

In the above Devops process, I have used a business case and developed the code using java , used Maven build tool, used RESTful web services, created REST controller class, JDBC driver to connect to DB, made Ajax call using jQuery and tested the code using JUnit. This code can be deployed in product production after performing system testing using Automation framework (BDD).

Coding:

Steps involved in coding:

1. Created the HTML page as Index1.html using HTML tags.

2. Added the necessary jars and configured the dependencies using maven. Made Ajax call using jQuery.

3. Created the spring boot Application (MVC) using RESTful web services with necessary java class and DAO class. The classes used for developing this business case are

3.1. PerftoolApplication.java

3.2. SignIn.java

3.3. Departments.java

3.4. DepartmentTO.java

3.5. Encryptpass.java

3.6. JdbcDriver.java

4. Created Controller class as HelloController.

Unit Testing:

Steps involved in UnitTesting

Created the test class HelloControllerTest.java and HelloControllerUT.java and performed Unit test using JUnit.

Conclusion:

This Business case scenario helped the user to sign in to the Application and load the departments from the database.

Feature Enhancement:

This business case could further be integrated with different modules for future enhancement and could help the product managers of various departments of an Enterprise to maintain their monthly Performance Analysis report of the employees under them, in order to improve the efficiency of the tasks done by storing the employee details and performance in the database, which could be modified every month. Graphs and bar charts could be imposed on the web page to show the historical data of the performance.

Similarities of the task that I had performed in my project which is related to this Business case

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| --- | --- |
| This Business Case | My Project |
| Sign in to the Accounts-Managers | Sign in to their accounts-staff and students |
| Loading Departments from Database | Loading staff and students data from database and writing into database |
| Developing RESTful web services using RESTbcontroller-HelloController | Developing RESTful web services using  REST Controller |
| Unit test using JUnit | Unit test using JUnit |
| Maven build | Maven build |