

**Team Report**  
**for**  
**Retail Business Management System**  
**with PL/SQL and JDBC**

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**-Nikhil Kulkarni, Tejal Rasal and Aditya Dhikle**

## **Index**

1. Overview
2. Planning
3. Team meetings
4. Team member responsibilities
5. Assessment by all team members

## **1. Overview**

This Retail Business Management System project consisted mainly of two parts, front-end in JDBC and back-end in Oracle PL/SQL. All the CRUD operations in the database were handled by PL/SQL procedures and functions. While all the frontend user-related actions and the integration of PL/SQL procedures and functions integration were handled by JDBC.

## **2. Planning**

This project was planned, executed, and tested in a timespan of 4 weeks, with each of the stages received contributions from all team members.

While in the planning stage, we considered the strengths and weaknesses of all team members to divide up the project into smaller chunks. This allowed the project to be completed efficiently while minimizing the bugs.

In the execution phase, each team member completed and tested daily pre-assigned tasks and all the code was integrated into the main repo each night making sure all the inconsistencies were removed and integrating different chunks wouldn't cause bugs in the future.

Once all the parts of this project were completed, all the code was tested thoroughly and relevant exception handling for different scenarios was completed.

## **3. Team meetings and collaboration**

Considering the current COVID situation, to ensure the safety of all team members most of the team meetings were conducted virtually on Zoom.

Each phase of the project had biweekly meetings in the evening making sure everyone is on the track and any doubts of the team members were addressed by discussion.

Discussion timeline:

04/21/2021 → Designing the scope of the project and dividing up the tasks among team members and deciding the timelines.

04/24/2021 → Discussion about the execution of the project and doubt solving with timeline updates.

04/28/2021 → Discussion about the execution of the project and doubt solving with timeline updates.

05/01/2021 → Discussion about the execution of the project and doubt solving with timeline updates.

05/05/2021 → Integration of the final code discussion.

05/08/2021 → Exception handling in the final code discussion.

05/15/2021 → Final touch-ups and bug fixes.

05/16/2021 → Final touch-ups and bug fixes.

#### **4. Team member responsibilities**

As previously mentioned, we considered the strengths and weaknesses of all team members to divide up the project into smaller chunks with all members contributing to all parts of JDBC and PL/SQL.

Tejal R Rasal- Designing and integrating the user interface in JDBC, creating triggers and exception handling for JDBC and bug fixing.

Aditya Dhikle - Integrating JDBC with PL/SQL, creating packages and sequences, procedures and exception handling. Modifying SQL package for demo purpose.

Nikhil Kulkarni - Creating oracle and JDBC procedures and functions, reading PL/SQL data in JDBC, and exception handling.

#### **5. Assessment by all team members**

Tejal R Rasal- Our team really worked together. We tried implementing the most optimal solutions for this project.

Aditya Dhikle- Got to learn more about integrating PL/SQL with JDBC. The team tried to contribute in all aspects of the project.

Nikhil Kulkarni- Our team worked really well together. Everyone contributed to the project immensely.

