

CS532 – DATABASE SYSTEMS

Project: 2

Implement Student Registration System using PL/SQL and JDBC

(Collaborative/Team Report)

SUBMITTED BY:

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MEETINGS

First Meeting Details: 11/06/2018

Agenda of Meeting:

1. Introductions, plan to study PL/SQL and review project requirements.
2. Established plan to meet on 11/12.

Challenges:

1. Understanding required skillset of the members and divide the work accordingly.
 2. Understanding project requirements and learning the implementation of PL/SQL in the project with Java (JDBC) code.
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Second Meeting Details: 11/12/2018

Agenda of Meeting:

1. Divide Queries work among the group members
 - a. Varun – Queries (1,2,3,4)
 - b. Sean – Queries (6,7)
 - c. Kundan – Queries (5,8)
2. Decide Rough TimeLine:
 - a. Complete PL/SQL Queries – 11/12 to 11/19
 - b. Complete Interface – 11/19 to 11/26
 - c. Project Due – 11/28
3. Next Meeting on 11/19.

Challenges:

1. Issues in fixing the queries and get them working right.
 2. Issues in connecting the remote server with PL/SQL and run the queries.
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Third Meeting Details: 11/19/2018

Agenda of Meeting:

1. Divide the work among the group members
 - a. Sean – Java Code
 - b. Varun – Packaging and Documentation
 - c. Kundan – Work on JDBC implementation
2. Next Meeting on 11/26

Challenges:

1. Connection between PL/SQL and Java code with JDBC bridge.
 2. Testing the queries using the Java interface and check the corresponding outputs.
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Final Meeting: 11/29/2018

Agenda of Meeting:

1. Project Review and Demo
2. Report Submission

COMPLETION OF PROJECT

The project aims to understand PL/SQL queries using the stored procedures efficiently. Therefore, the main task was to study and implement work on the database part and less on the GUI design. It also helps to understand the connection between Java and PL/SQL using JDBC. The main plan was to finish the project as early as possible and before the project deadline. Every team member has worked on its part sincerely and it is a group effort where each member has helped each other so that the things goes smoothly and complete the project before time with correct output with different test cases. Each team mate followed up on the status of each other's work. Each member also offered help if someone is stuck with an issue. The plan was followed as expected and delivered on time.

PROJECT EXPERIENCE

Learnt to use Oracle database, PL/SQL and Java operation with Oracle Database and Queries.

Positive Lesson Learnt/Accomplishments:

1. Working in team with mutual understanding.
2. Dividing tasks as per the skill set of the members and the requirements mentioned.
3. Time management to complete the project on time.

Challenges Faced:

1. Working in an unfamiliar technology and complete the project part on time.
 2. Testing the code with the PL-SQL queries and checking the output with manual testing.
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CONCLUSION

Thus, we have implemented the project successfully using PL-SQL and Java by connecting it using JDBC within the required time frame provided.