CS221: Programming II

Java Database Connectivity API

Report

Team Members

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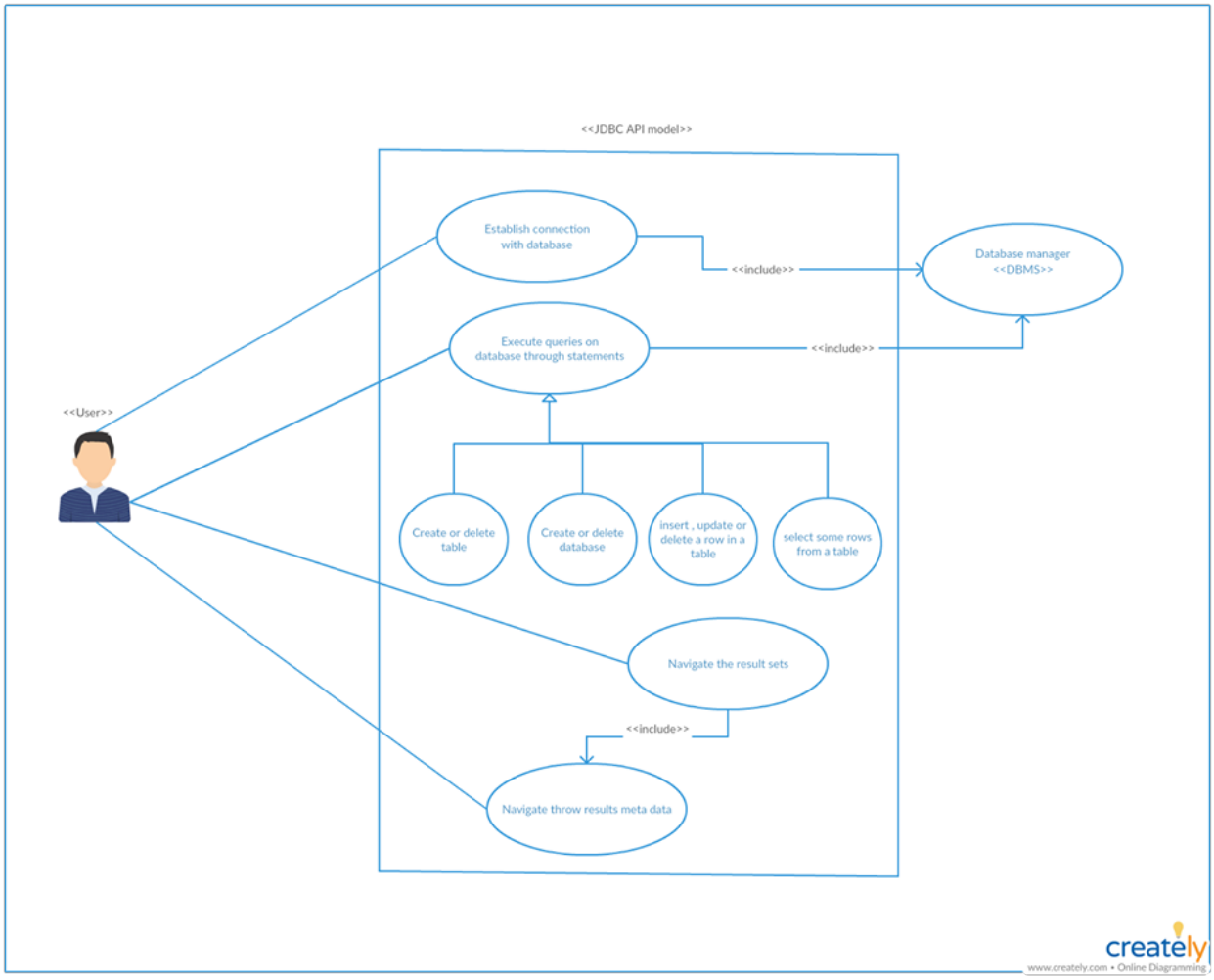
Introduction

Java Database Connectivity (JDBC) provides Java developers with a standard API that is used to access databases, regardless of the driver and database product. JDBC presents a uniform interface to databases - change vendors and your applications only need to change their driver.

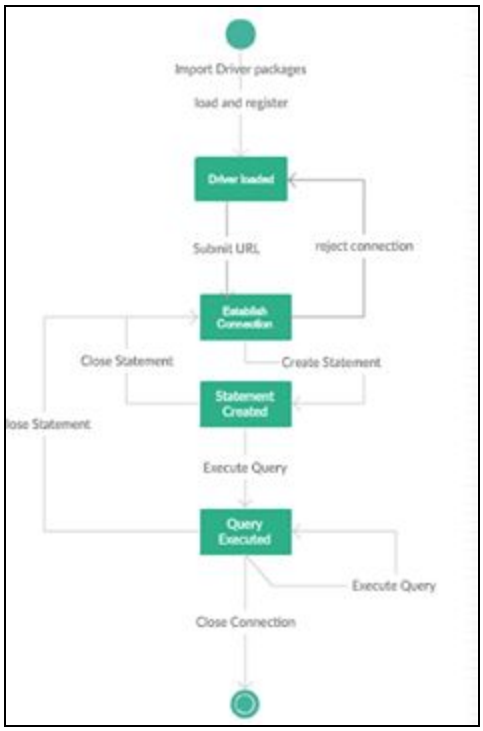
As a team, we divide this project into 4 tasks so that we can work on it together. Every person has taken part in it. One member's responsibility was to implement the ResultSets and the ResultSetMetaData interfaces and one took care of the driver and the connection class and the statement class was implemented by all the members. Logs where the responsibility of the third member and the fourth made the GUI.

Use Case Diagram

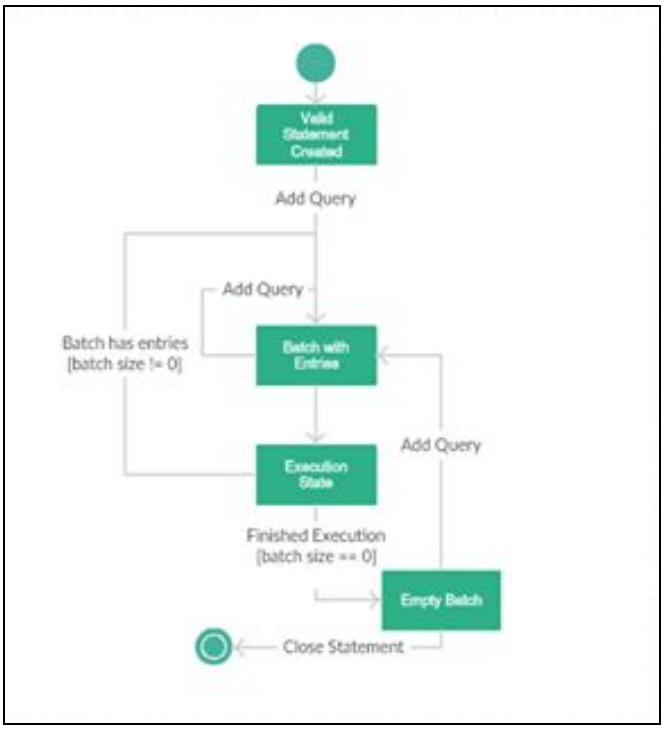


State Diagram

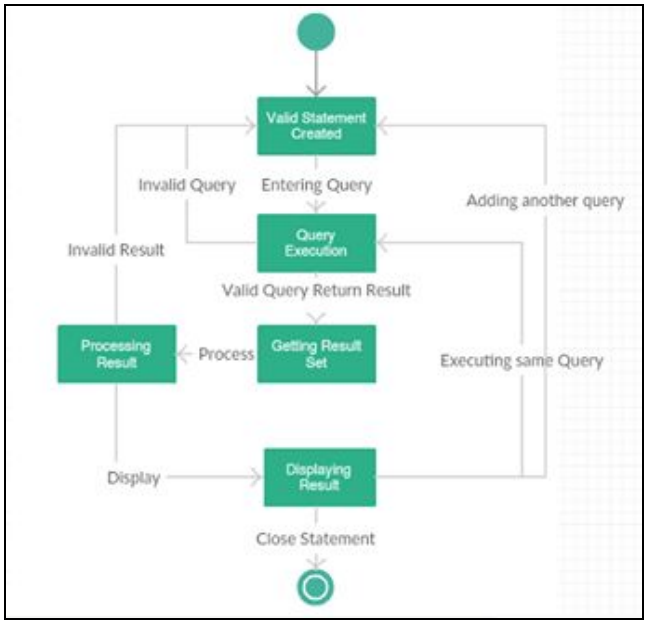
Scenario 1



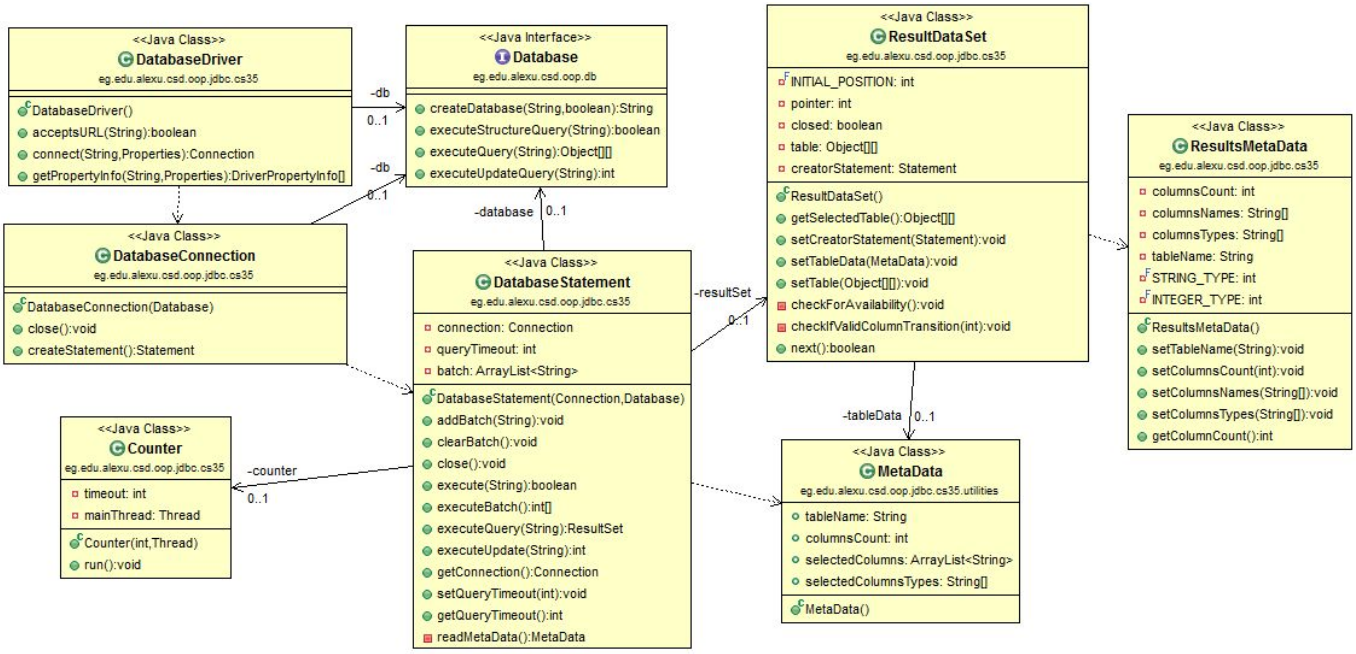
Scenario 2



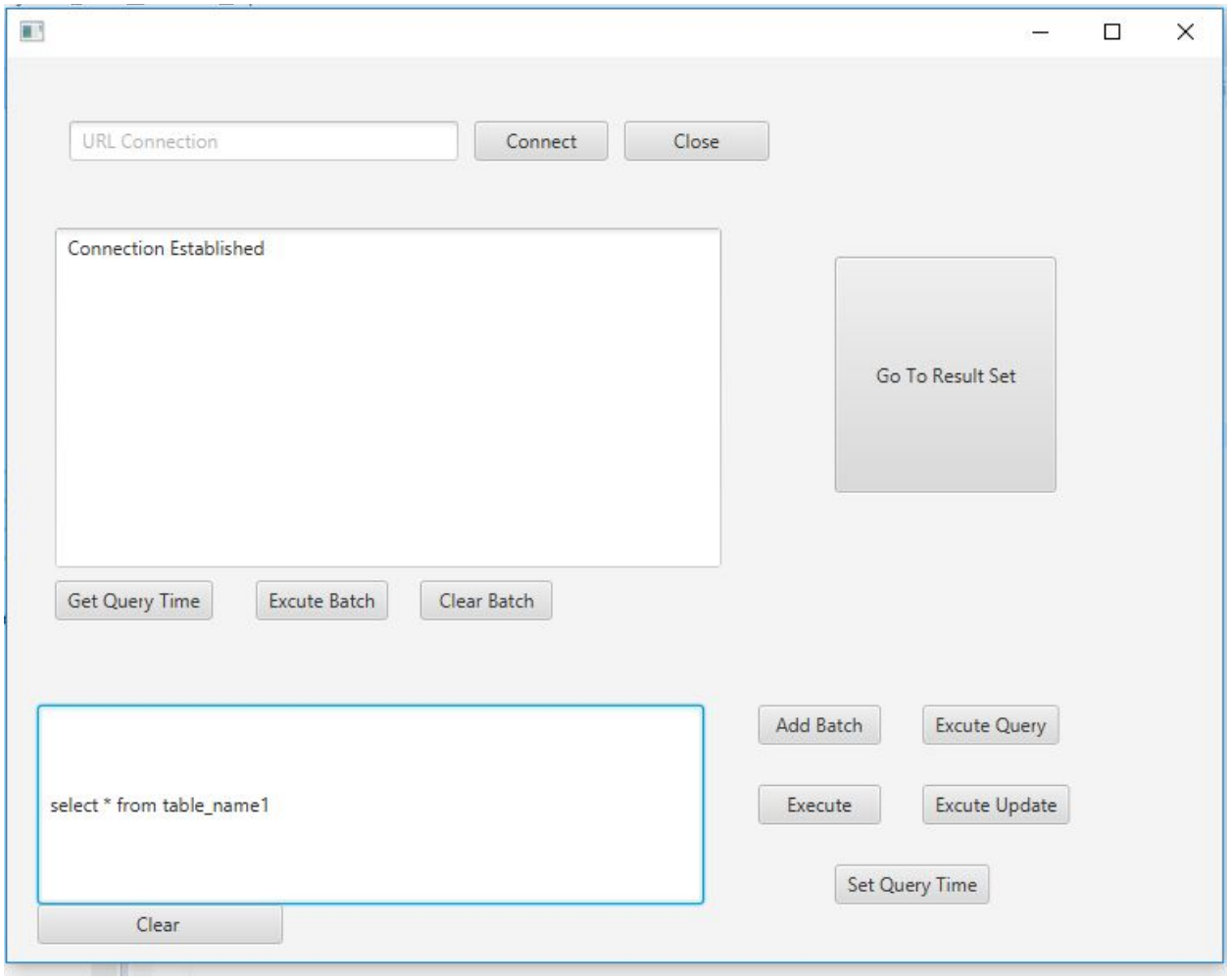
Scenario 3

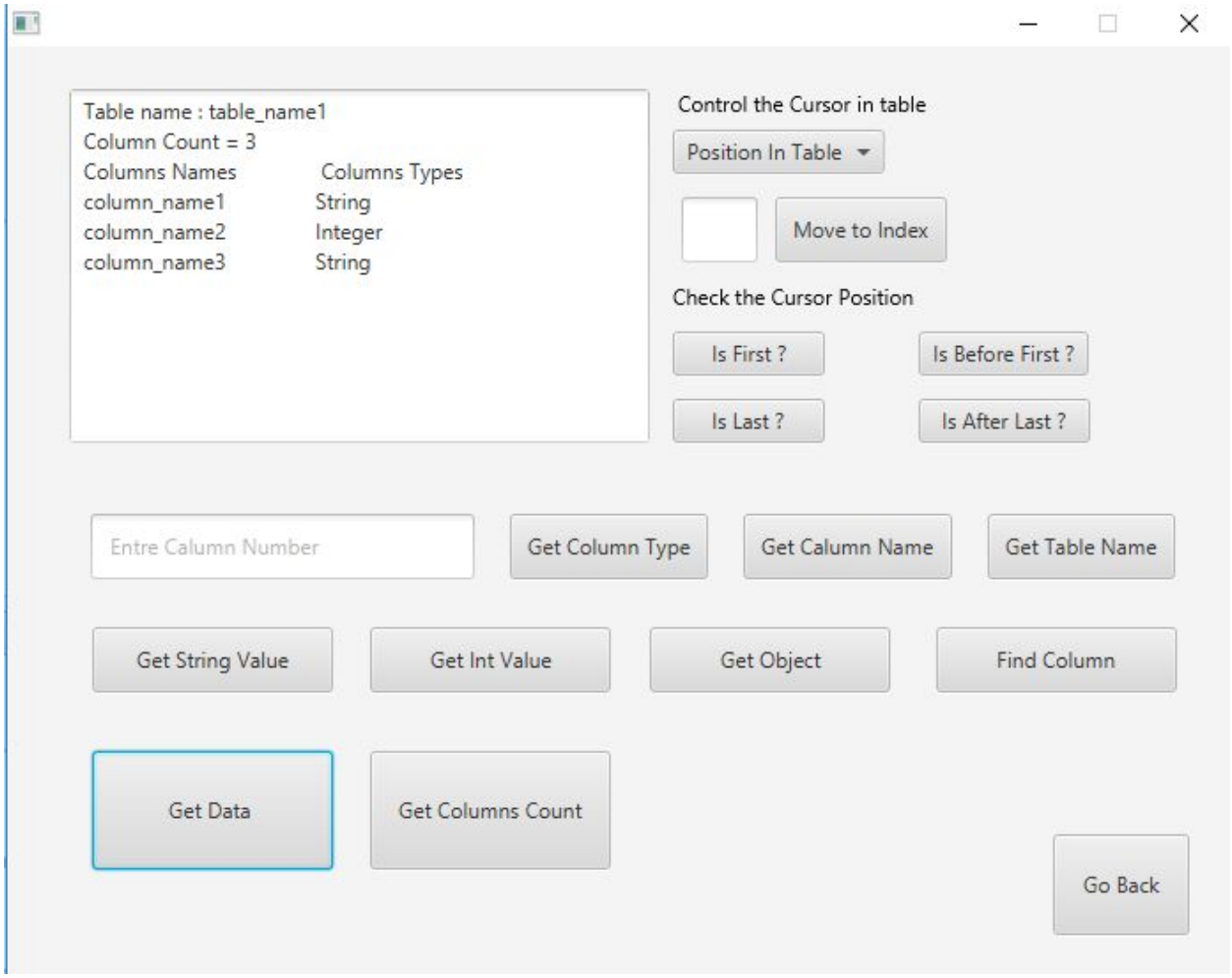


UML Class Diagram



GUI Snapshots





References

- http://docs.oracle.com/javase/tutorial/jdbc/
- https://en.wikipedia.org/wiki/Java_Database_Connectivity