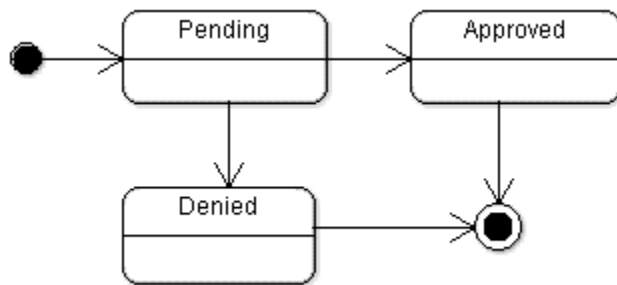


Expense Reimbursement System

Executive Summary

The Expense Reimbursement System (ERS) will manage the process of reimbursing employees for expenses incurred while on company time. All employees in the company can login and submit requests for reimbursement and view their past tickets and pending requests. Finance managers can log in and view all reimbursement requests and past history for all employees in the company. Finance managers are authorized to approve and deny requests for expense reimbursement.

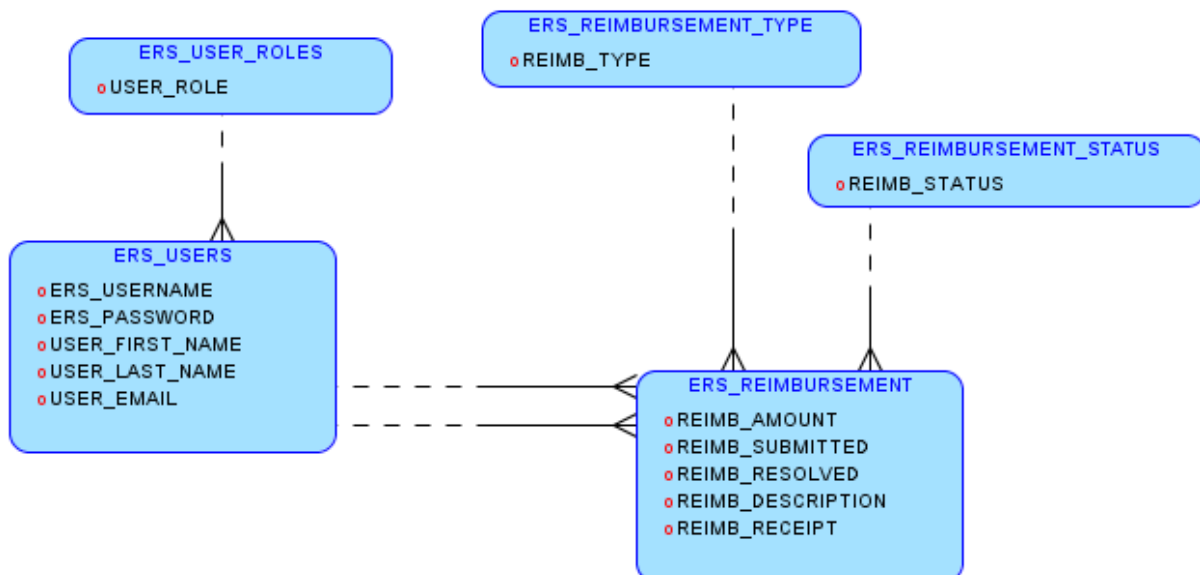
State-chart Diagram (Reimbursement Statuses)



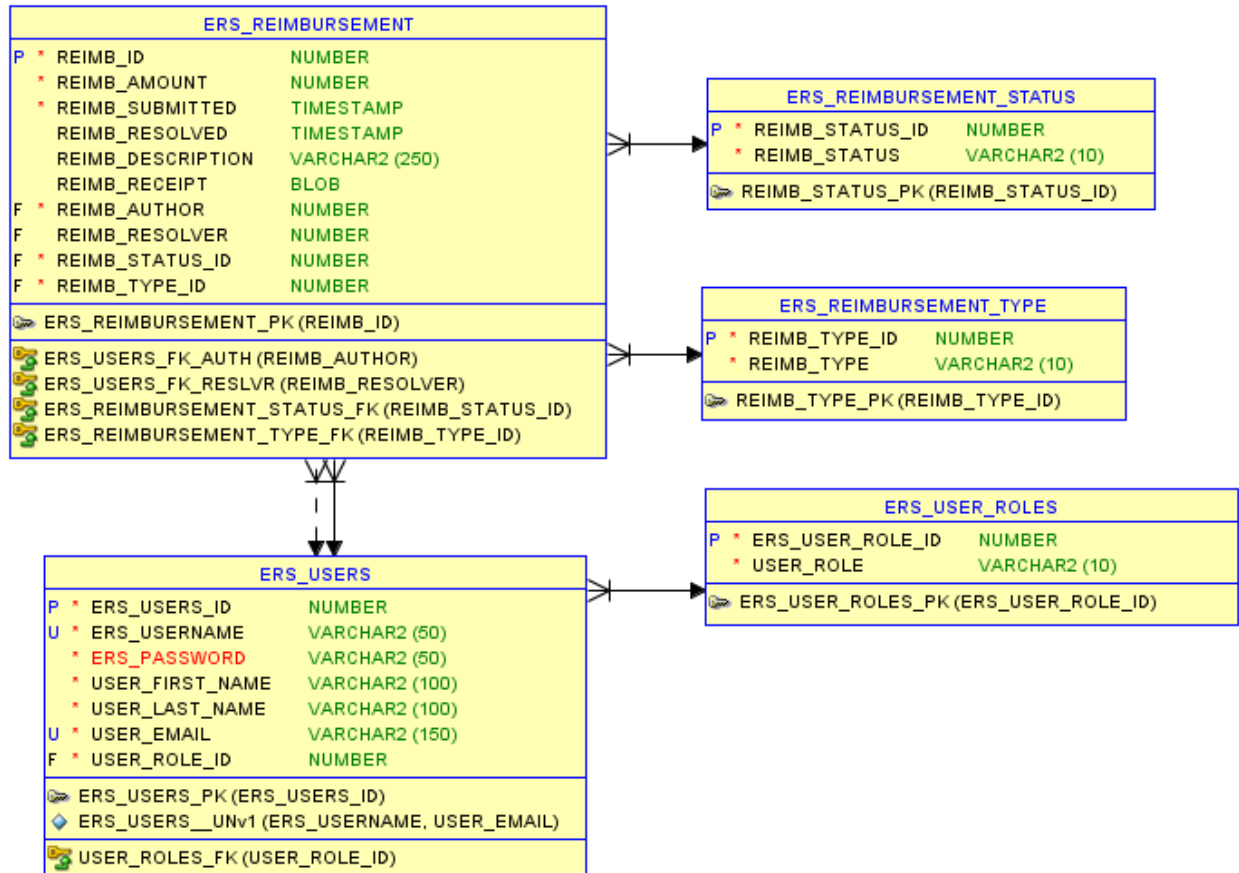
Reimbursement Types

Employees must select the type of reimbursement as: LODGING, TRAVEL, FOOD, or OTHER.

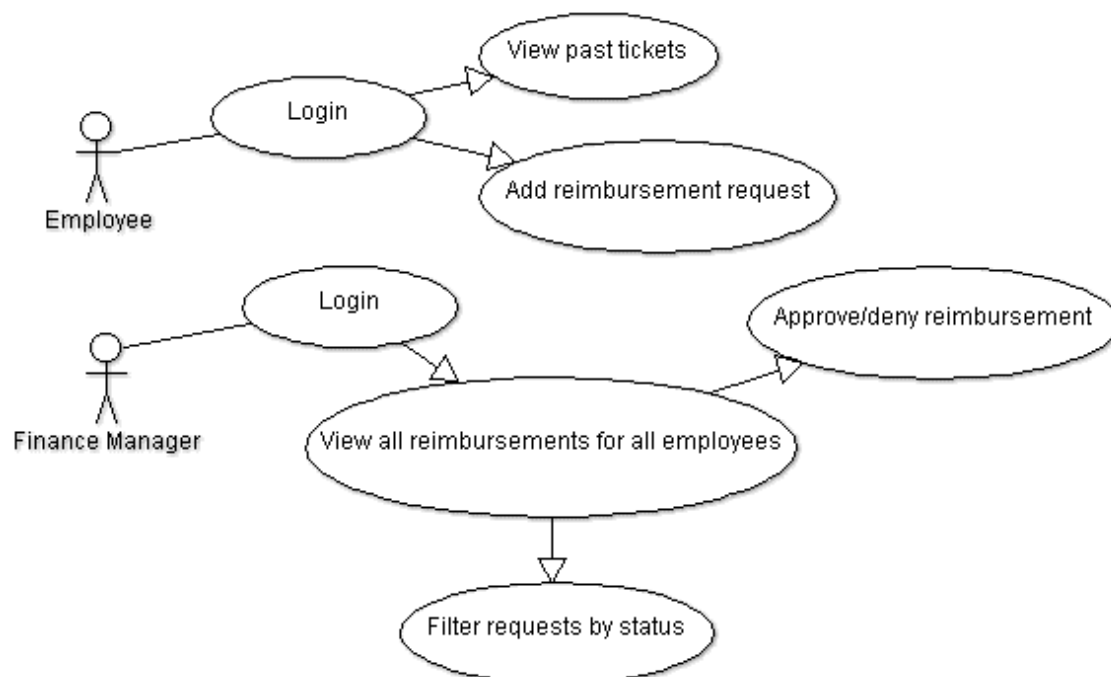
Logical Model



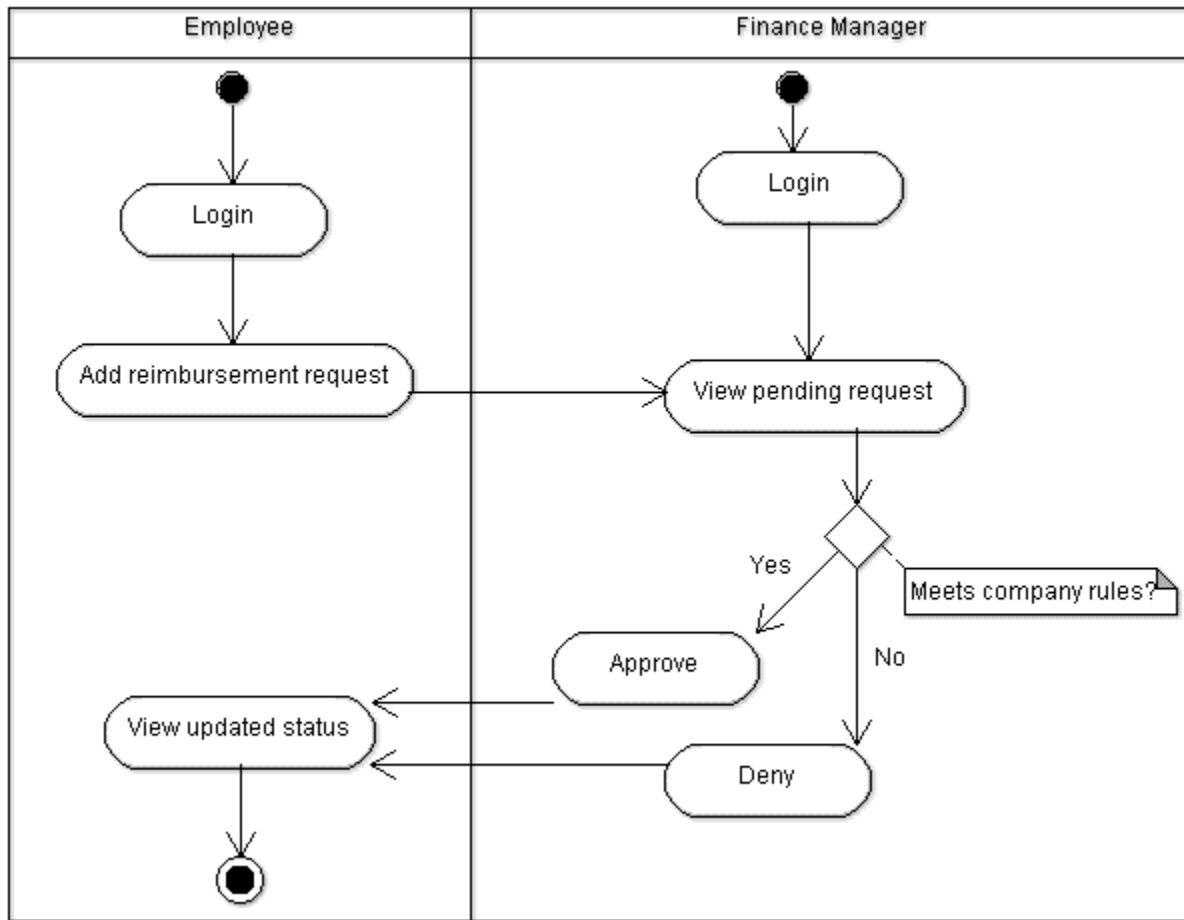
Physical Model



Use Case Diagram



Activity Diagram



Technical Requirements

The back-end system shall use JDBC to connect to a PostgreSQL database. The application shall deploy onto a Tomcat Server. The middle tier shall use Servlet technology for dynamic Web application development. The front-end view can use JavaScript or Angular to make a single page application that uses AJAX to call server-side components. Passwords shall be encrypted in Java and securely stored in the database. Users can upload a document or image of their receipt when submitting reimbursements.