Secure Bank Pilot Project- Secure Software Engineering

# Secure Coding – Project Cover

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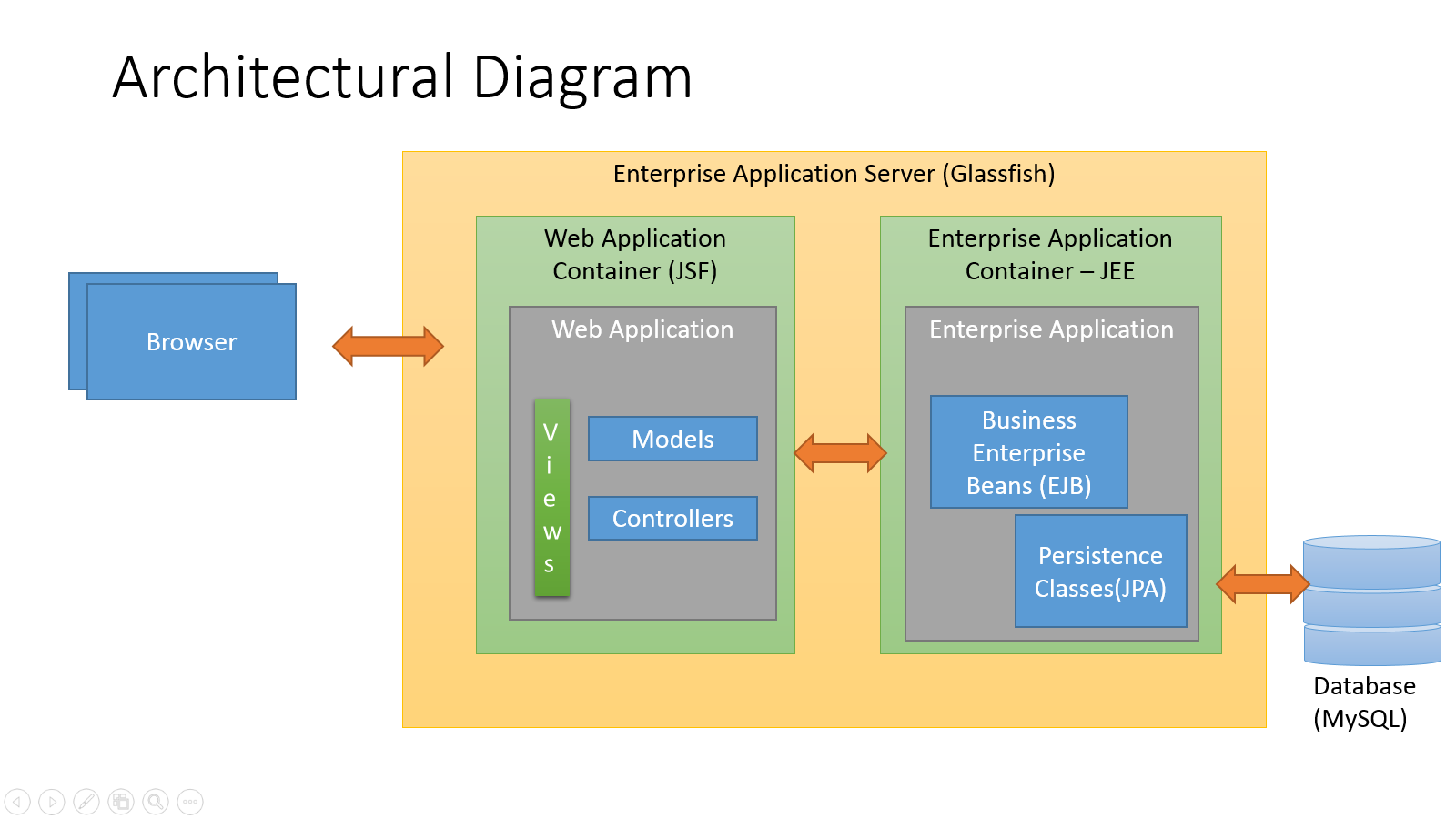
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# Architecture Diagram



## Project Structure: Web Layer - Web Models – Business

|  |  |
| --- | --- |
| Figure : VIEW LOGIC | Figure :UI MODELS |

|  |  |
| --- | --- |
| Figure : Enterprise Business Beans | Figure : Persistence Layer |

# Project Setup

* 1. Development Environment

Development Editor: NetBeans 8.0

Enterprise Server: Glassfish 4 (Comes along with NetBeans)

JDK: 1.8

Database Design: MySQL Workbench

Database: MySQL

# DB Design

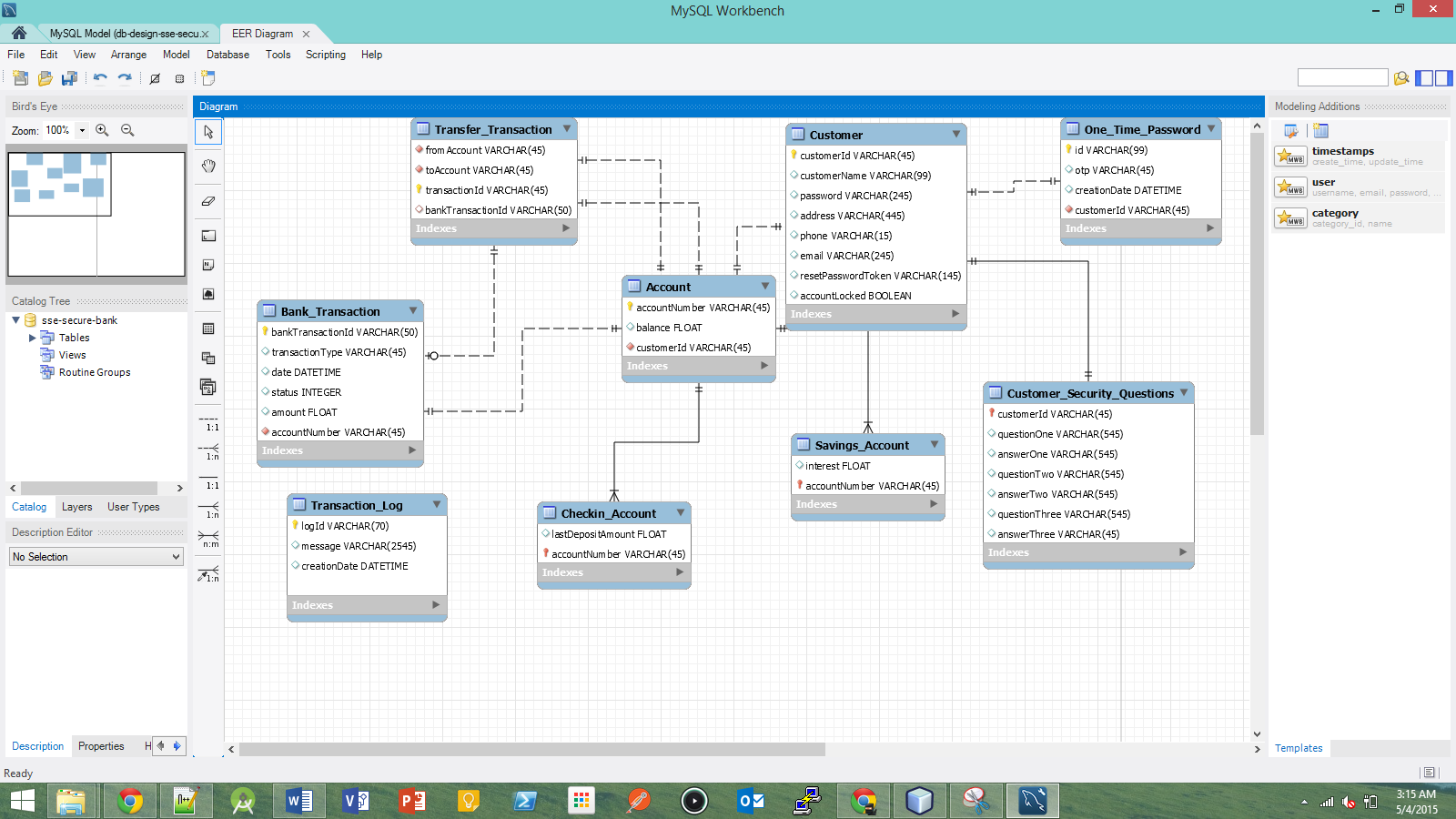


Figure : Database Schema

# Login/Logout

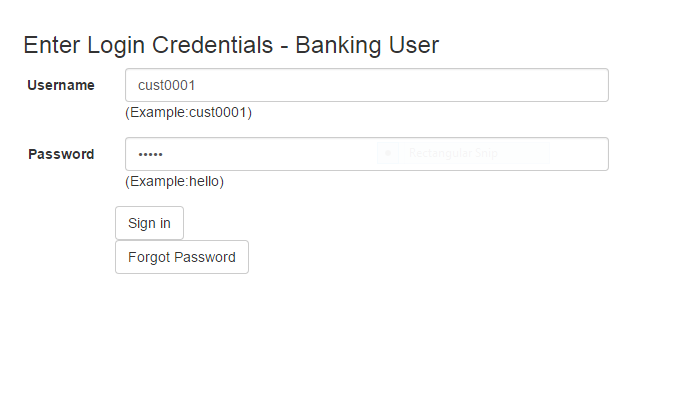


Figure : Account Login Page (LoginPage.xhtml)

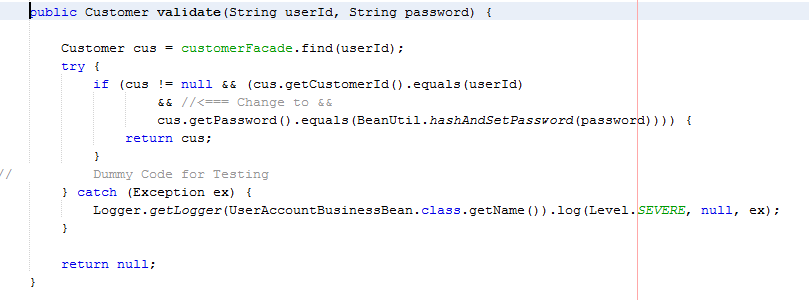
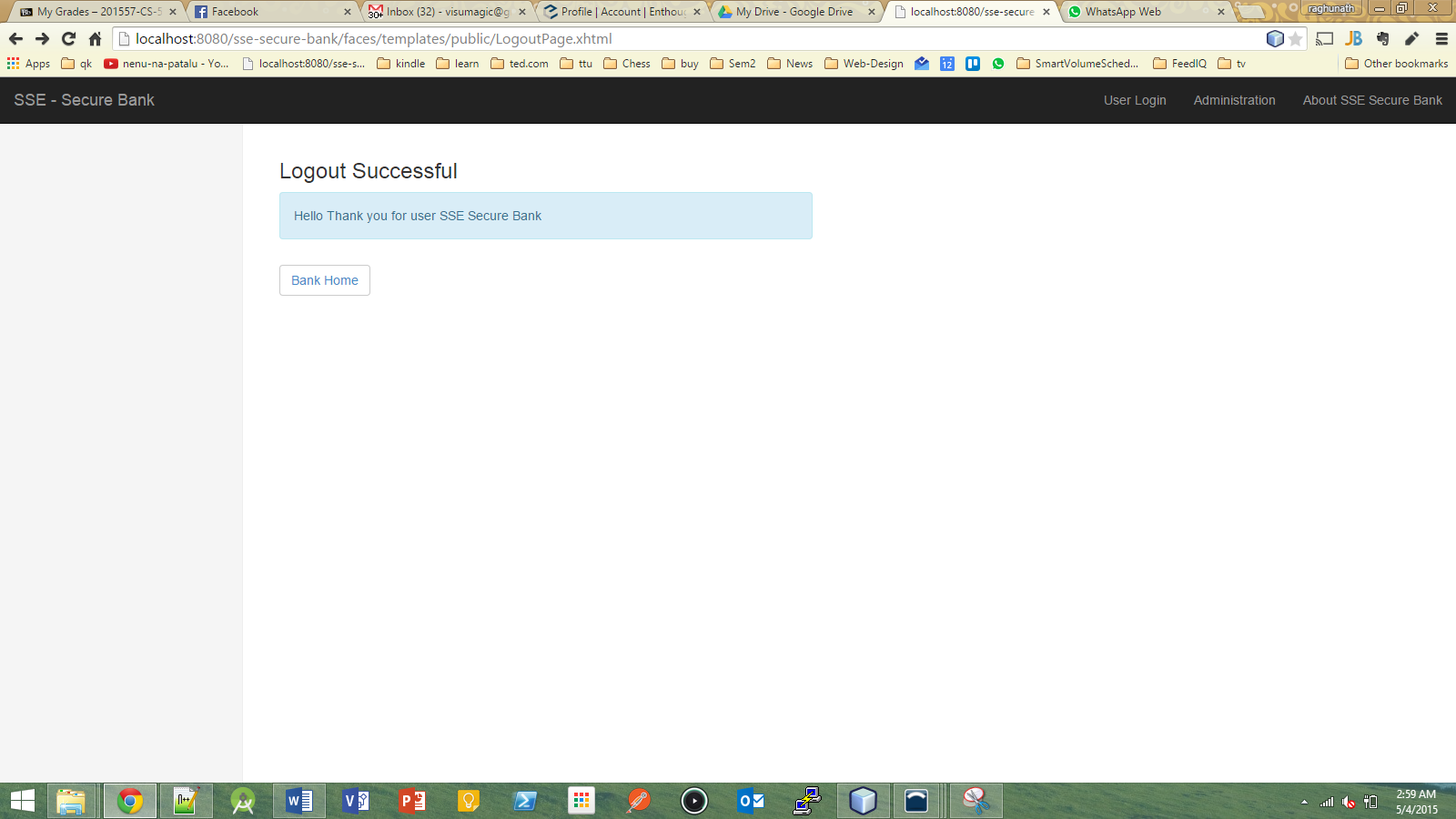
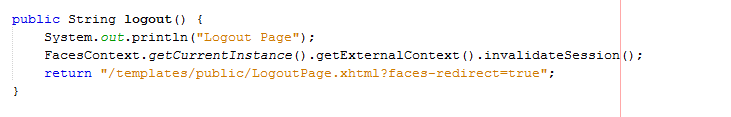


Figure : Validate User Credentials - UserAccountBusinessBean.java





# Password - MD5

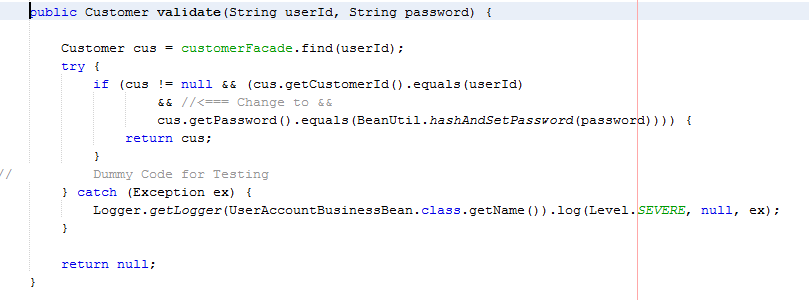


Figure : Validate User Credentials - UserAccountBusinessBean.java

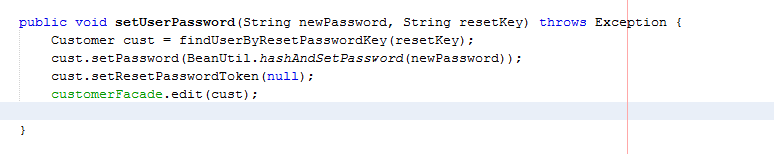


Figure :Set Md5 Password Logic - ResetPasswordUIBean.java

# Session Invalidate - 5 min (Configurable)

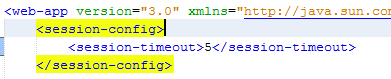
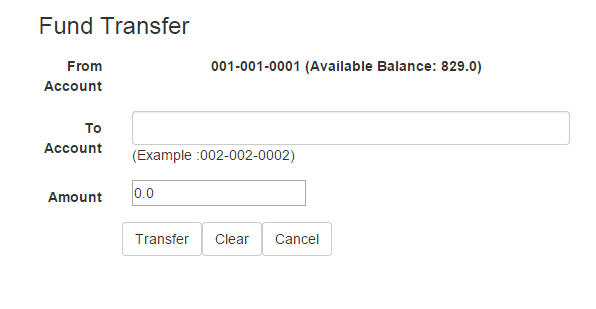
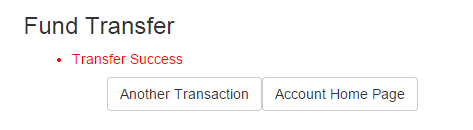
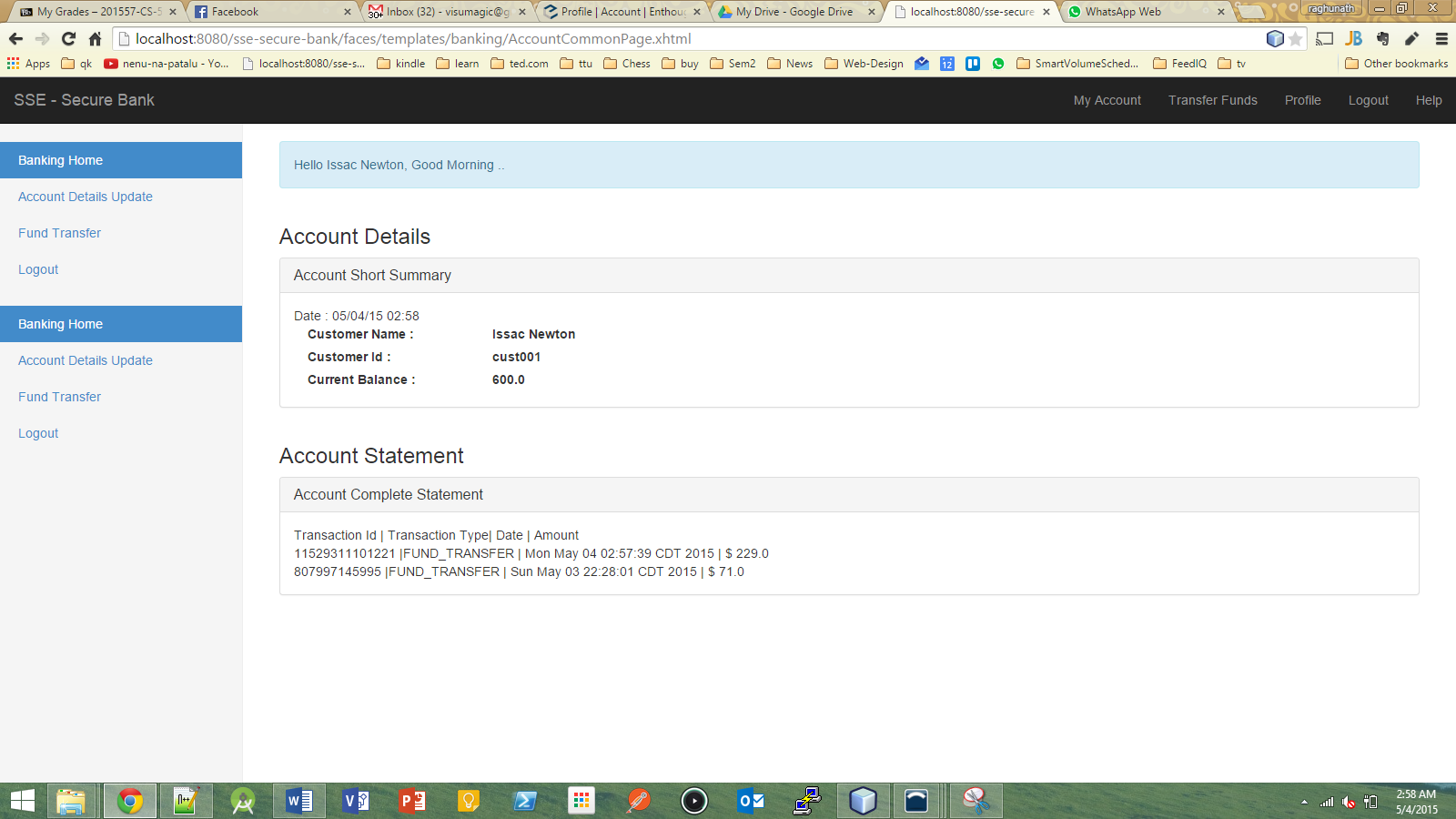


Figure : web.xml

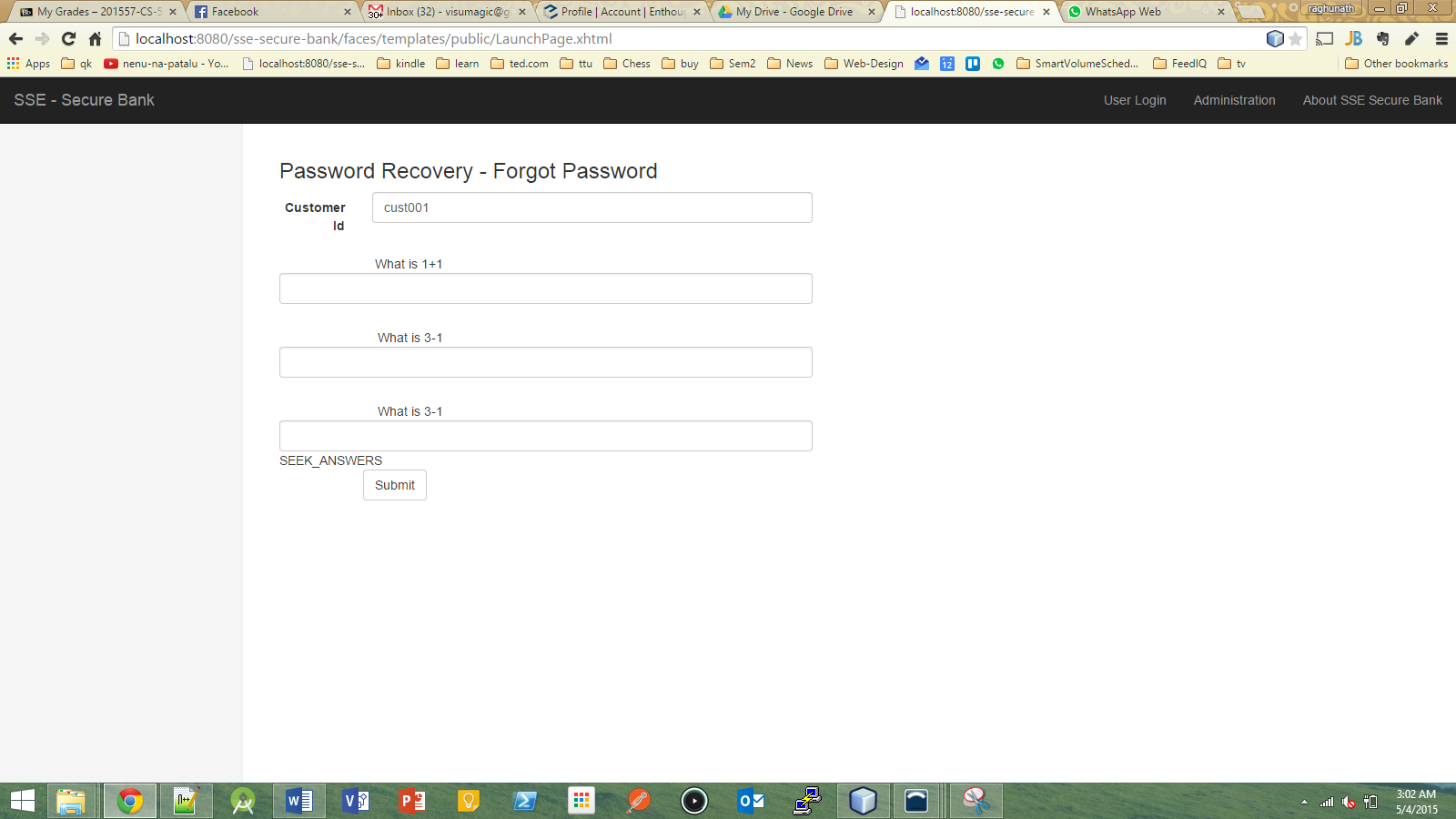
# Fund Transfer

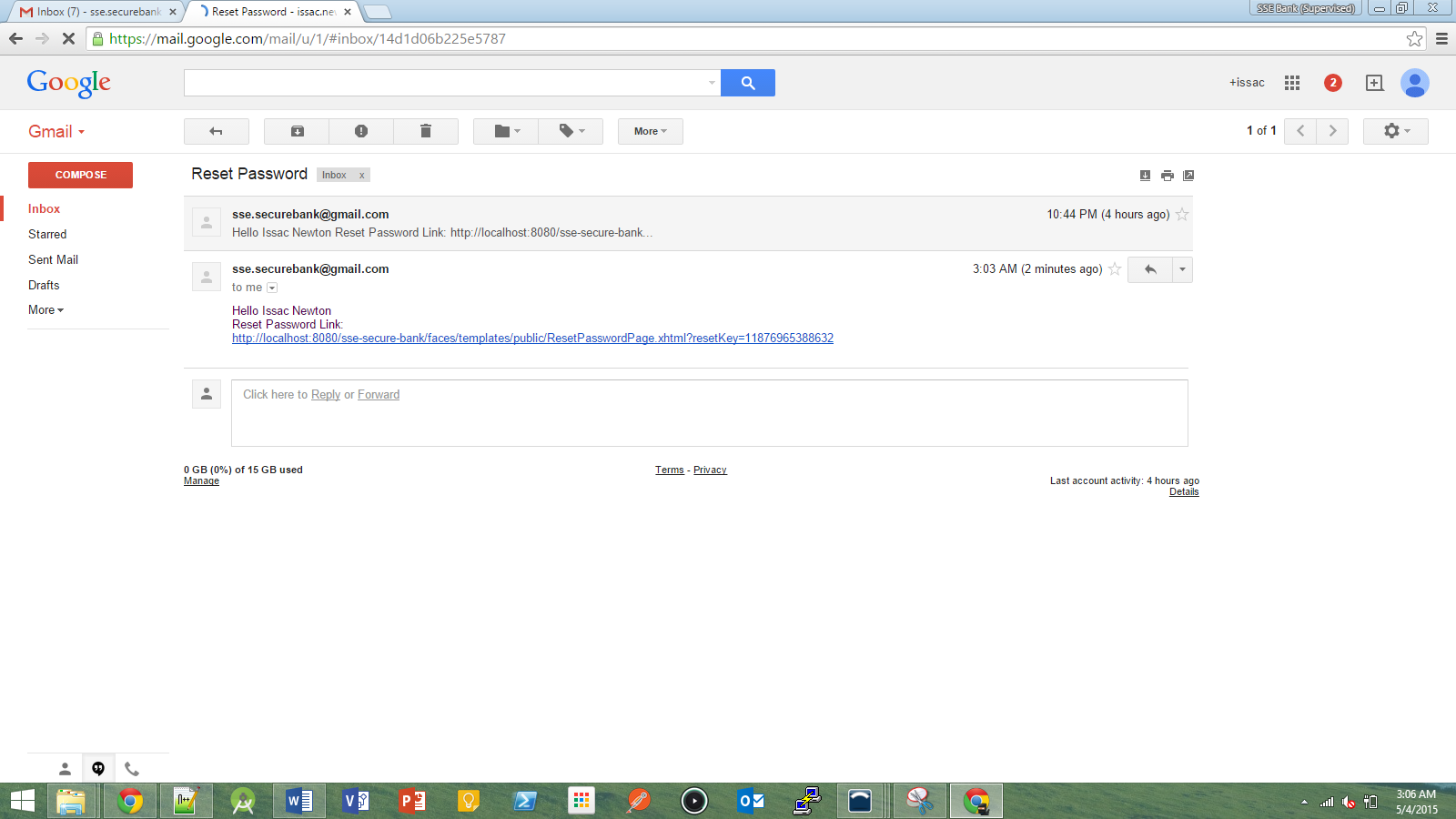


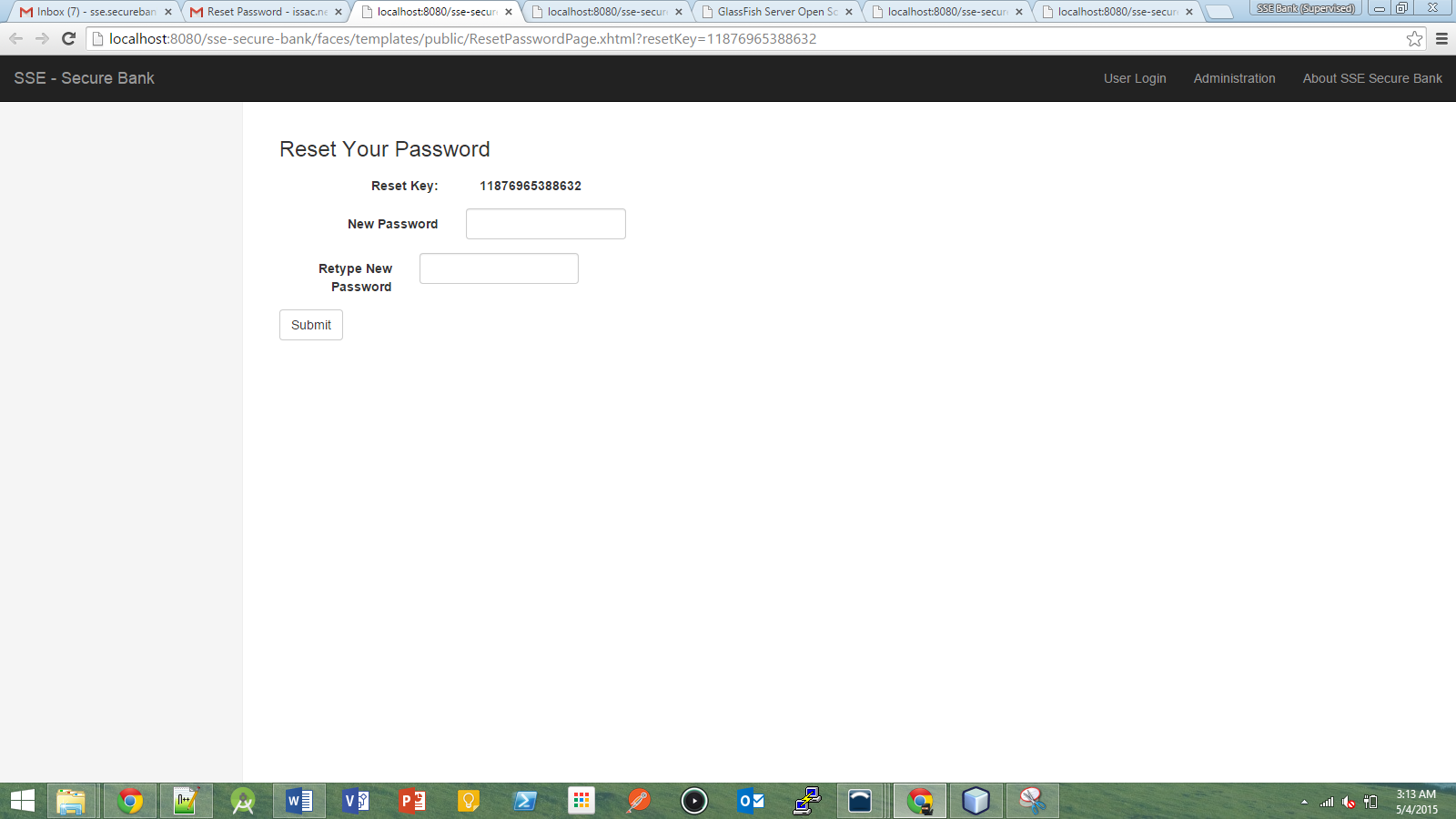


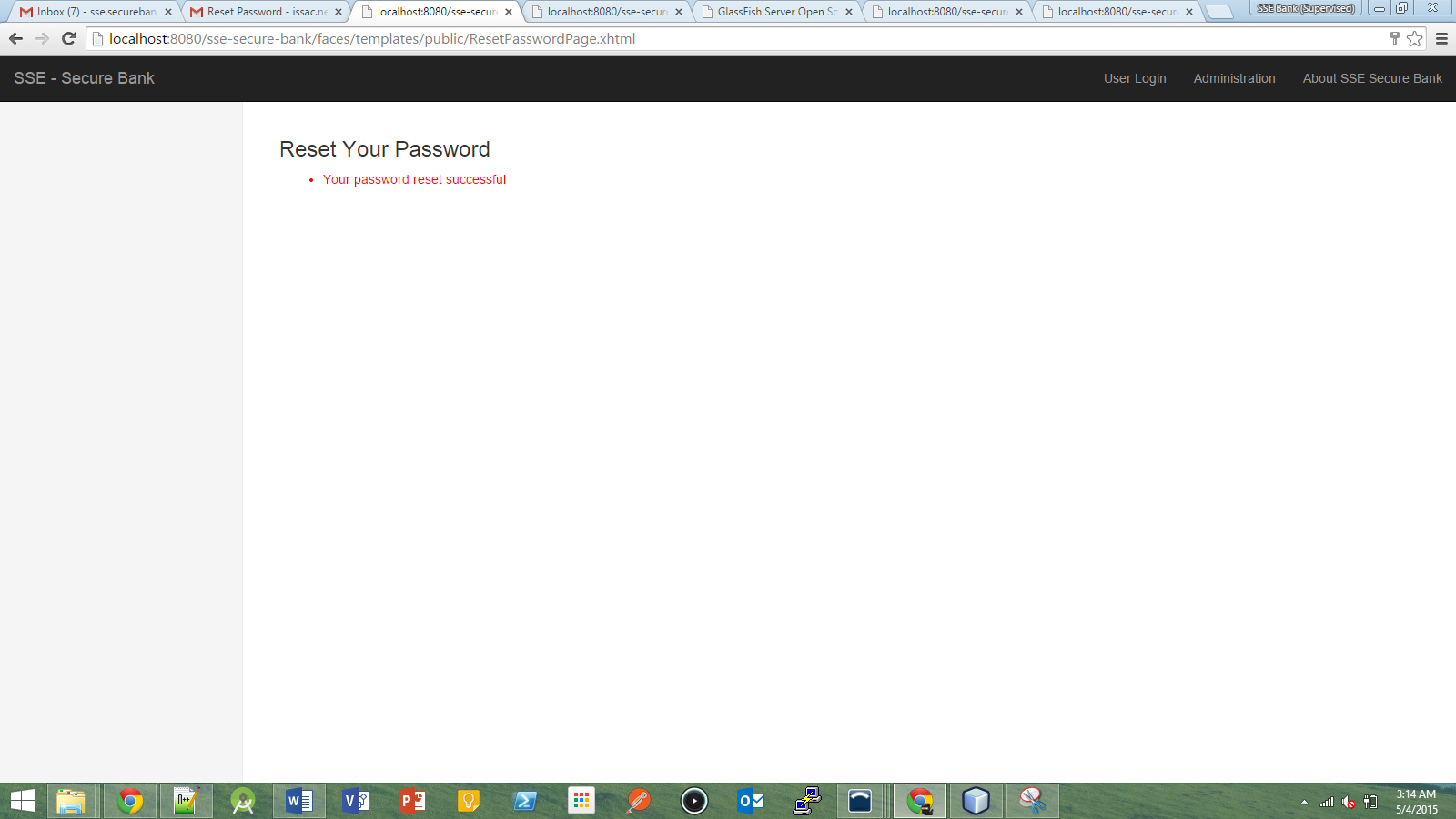


# OTP - Password Reset – Email Generation

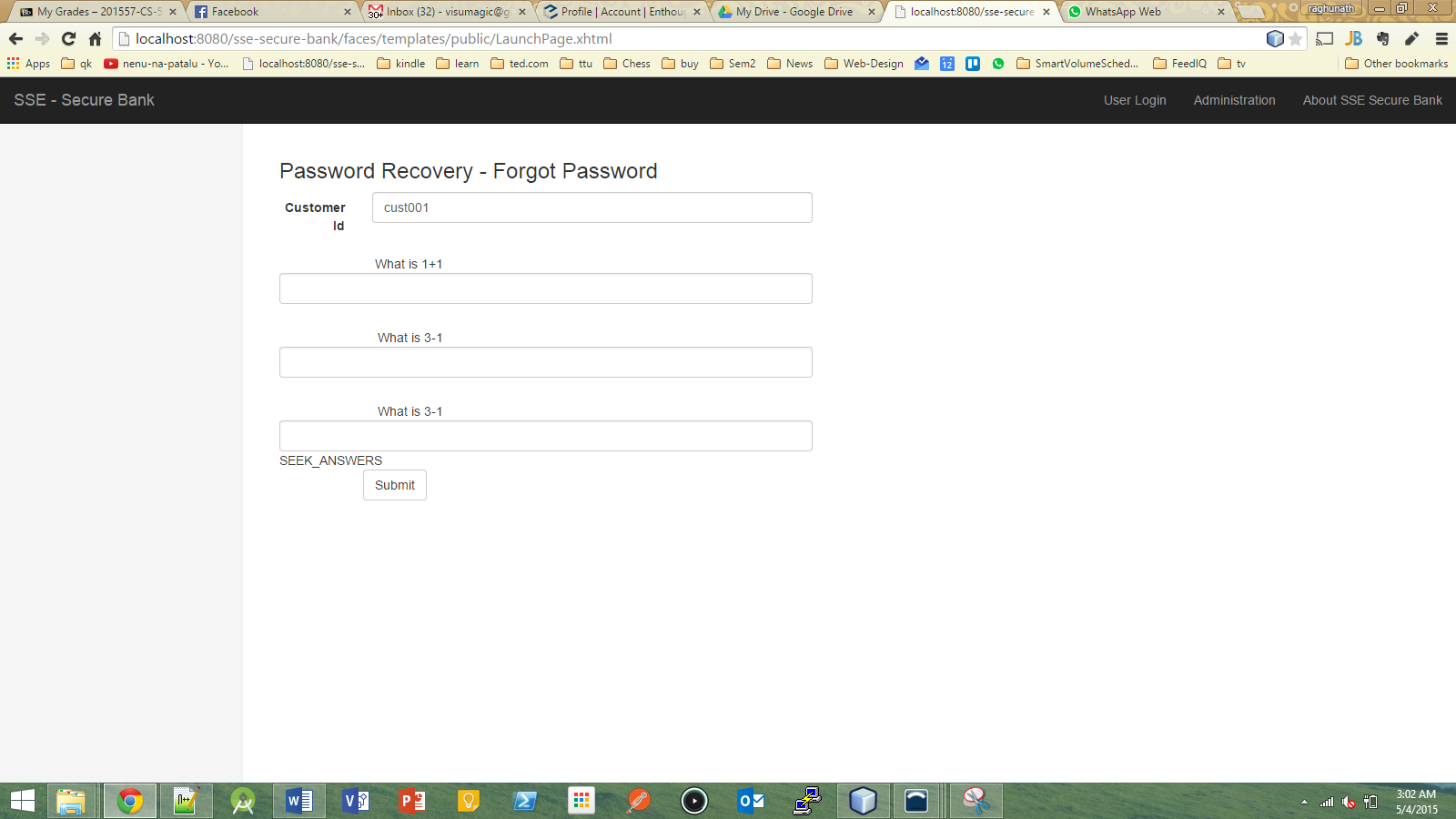








# Secure Questions



# Database Models

