AME-505:
Final Project Presentation
An Automatic Library Resource Management System

(GROUP 3)
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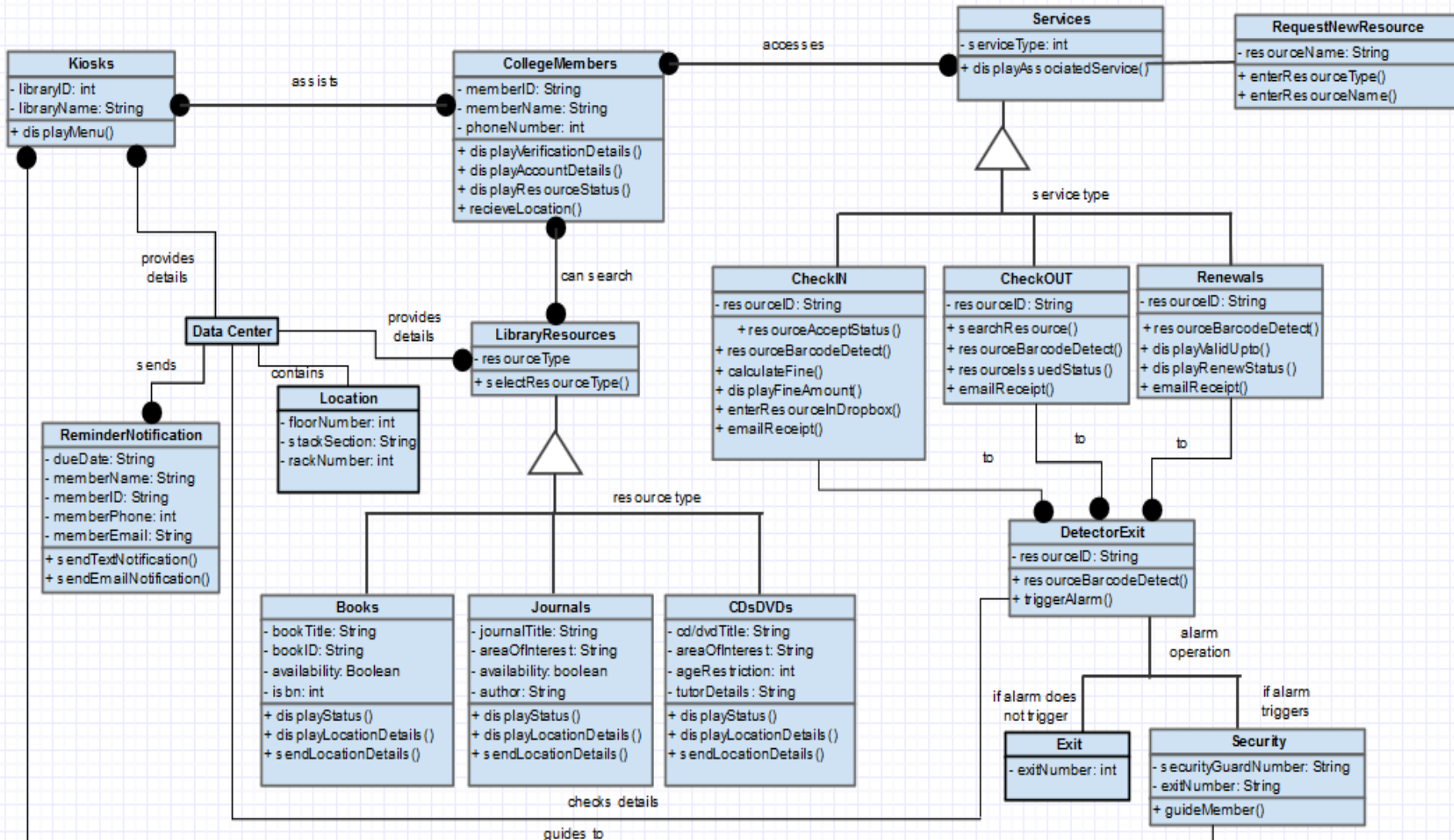Shyam Prasad V Atri, satri@usc.edu

April 28, 2016

The Problem

Problem Scope

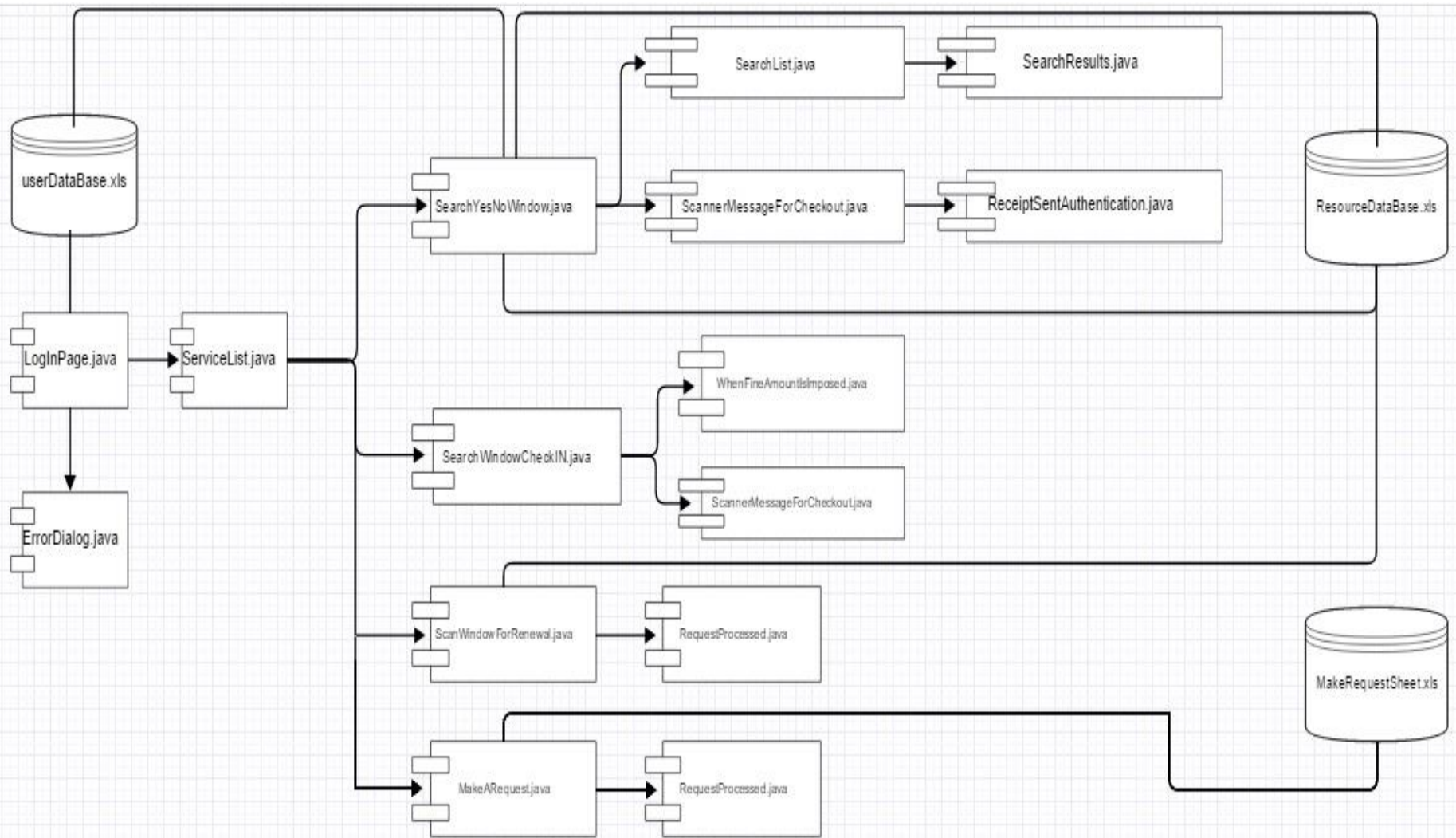To develop an automatic system that overcomes the problem of resource mismanagement.

Problem Statement

To **design a "library management system"** to provide <u>self-check-in, self-check-out facility,</u> and other services like <u>resource renewal</u> <u>by means of a system</u> that <u>allow the college members to check in and check out the library resources</u> conveniently". The library should have <u>search stations</u> that can be used to log in and search for study resources from the library catalogue and <u>check for their availability</u>. Assume that one member should be able to access one kiosk at a time. The member enters details at the stations and gets access to his/her individual member account. The <u>member's account</u> should be <u>linked to the college library database</u> that <u>keeps track of the resources</u>, in and out of the library. The members should be able to check whether a particular resource is available in the library or not and get it issued accordingly. In order to obtain the resources, <u>the system should be able to guide the user</u> member by <u>giving proper directions</u> as to where to go and find the book when the member searches a particular resource and wants to get it issued. The <u>system should bear least human interference</u> and should be <u>secured enough</u>.
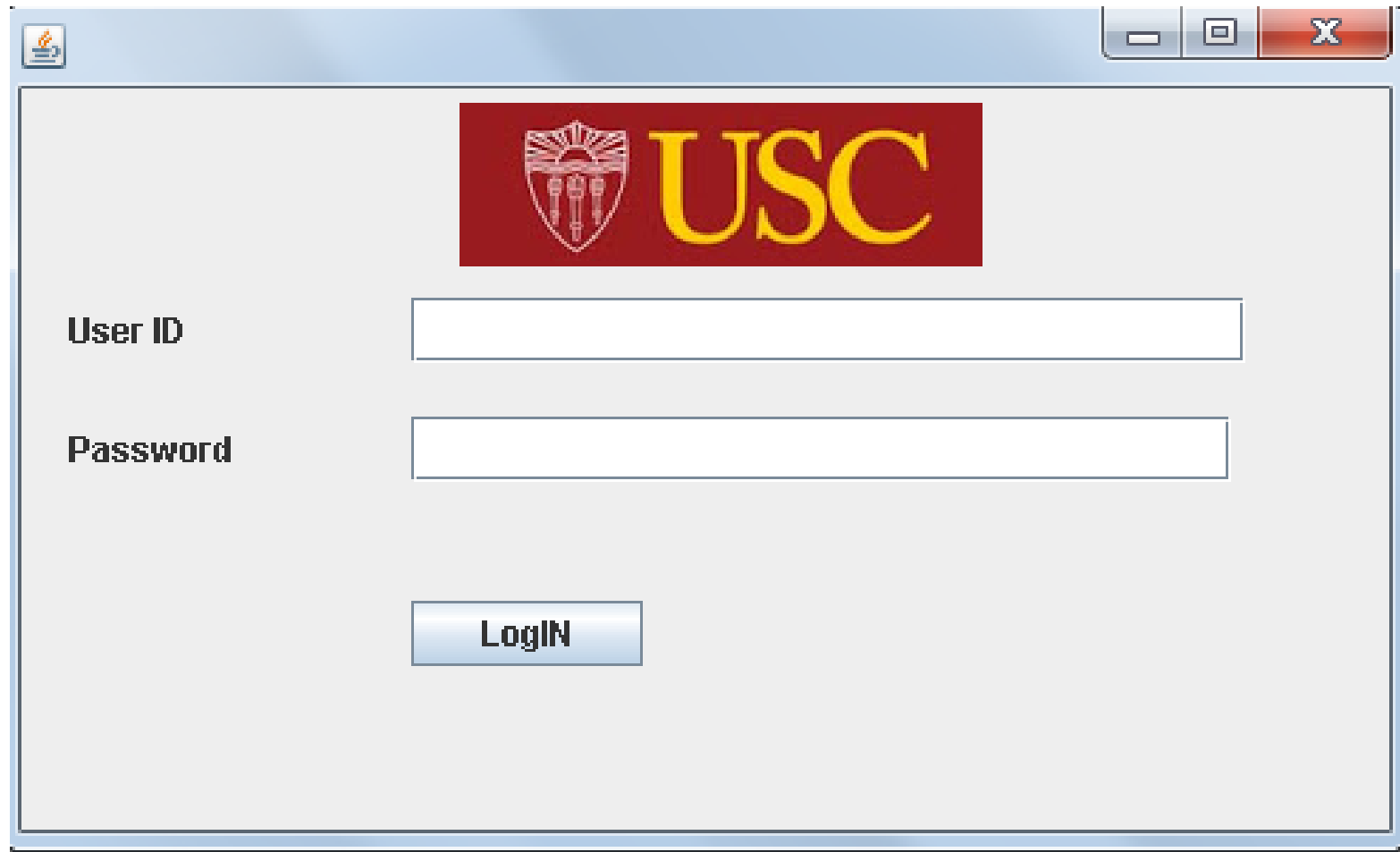
Object Model - Class Diagram

Application/Testing Scenario

System Demonstration

Lessons Learned

- Using Object model really simplifies coding

- Coding and Debugging in Java

- Use of Jigloo (Creating GUI & Linking GUI)

- Efficiently using Apache POI to read and write from Excel files.

- Use of eUML2 to create Object Models in Eclipse.

Thank You

Questions?