CMPUT 291 Design Document

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**General Overview:**

High level introduction

This software allows you to perform tasks such as search for flights from a database, book those flights, display those flights and log in and out using a username and password.

Flow of data between components.

**Software Design:**

The primary classes in our software are:

Class Sessions:

Responsibility:

Handles creating SQLWorker and login for users.

Interface:

Test:

Responsibiliy:

Runs our program

Class SQLWorker:

Responsibility:

Connects to SQL, creates prepared statements, runs sql queries and returns ResultSet objects.

Interface:

Class Queries:

Responsibility:

Uses SQL and takes the return to solve problems.

Interface:

Structure and relationships between primary classes:

Sessions constructs SQLWorker objects and Query objects.

**Testing Strategy:**

When testing our program we checked to make sure that the login process worked by logging in with brand new user names to create a new account, logging in with existing usernames and a wrong password to make sure a new user account isn't created, and we also logged in with existing user names and correct passwords.

We checked to make sure that booking worked properly by

**Group Work Break-down Strategy:**

Our strategy for breaking down the group work was to first come up with a plan to implement the program functionality and break it down into what classes would be required. We split the initial work into one partner designing the login functionality for the program while the other partner got started on the queries that would be needed for the Search for Flights task. Once the login functionality was implemented the partner working on the Search for Flights task could make a class called Queries in order to implement the search for flights.