SOEN384 - fall 2015

**Assignment 2 (10%, Team work)**

*Posted on October 30th, due on November 14th by midnight*

*Submit electronically as* ***programming assignment 2****, one submission per team.*

*List the team members (names and IDs) on the first page of your submission.*

**Goal**: In this Assignment, you will practice principles and rules related to Refactoring.

**Case Study:** Our case study is a web application aimed at helping the charitable organization Welcome Hall Mission, by refurbishing their Family Services Tracking System (F.S.T.S.) software. F.S.T.S. is a tool used by the Welcome Hall Mission to speed up the process of serving families by distributing food, mattresses and other services. The system keeps track of all their client records, as well as upcoming events scheduled by the organization. Furthermore, employees can use the current software to book appointments for clients and print various operational and statistical reports. Code provided is mainly related to book appointments.

**Problem Statement**: Your job is to find bad smells in the package “domain.mappers.files” in the attached F.S.T.S source code by applying code review technique and tools discussed in class (Jdeodorant and ConQAT); suggest a refactoring strategy to eliminate the smells.

**To DO:**

1. Generate a list of bad smells of **feature envy** and **long method** types found in the source code. Smells should be classified according to their types (feature envy, long method).
2. For each type of smells identified, select one smell with code snippet, and explain the reason of including them on the corresponding list.
3. Suggest a suitable refactoring strategy for the selected code smell. Be sure to clearly state the rationale behind your suggestions.

This Assignment is a team work, so be sure to discuss your thoughts with the other members of your team.

Students also need to use the libraries that can be downloaded in the following link:  
<https://www.dropbox.com/sh/yl8uiqamtz7pl2h/AACUBHvc12VsUSocgZGyS1aAa?dl=0>