**ENSF 480**

**FALL 2023**

|  |
| --- |
| **Principles of Software Design**  **ENSF 480** |
| Group Student Name(s):  **Muneeb Ali – 30147888**  **Christy Guirguis – 3014####**  **Joao Lutti – 3014####**  **Sarim Sheikh – 3014####** |
| Group Number:  **08** |
| Instructor Name:  **M. Moussavi (PhD, P.Eng)** |
| Date Lab Activity Submitted:  **DD / MM / 2023** |

***A Flight Reservation Web Application***

**Due date for PROJECT (lecture section TUE/THURS): Wednesday Nov 29, before (11:59 PM)**

**Department of Electrical and Computer Engineering**

**University of Calgary**

# A Flight Reservation Web Application

## Introduction

Learning Curves:

To analyze, design, and develop a web-based system that can be used by different type of users, tourism agents, airline agents, and system admin(s).

## System’s Description

1. Product Perspective:

The Flight Reservation Web Application is a comprehensive online platform designed to streamline and enhance the air travel experience for various user roles within a single airline company. The goal of the system is to give travellers, flight crew and system administrators an easy to use and seamless platform for managing and booking flights. The system aims to optimise the reservation process and enhance the overall travel experience for all users involved.

1. Product Features:

* User Authentication and Authorization
* Flight Search and Browse
* Seat Map Visualization
* Seat Selection
* Ticket Cancellation Insurance Option
* Secure Payment Processing
* E-ticket and Receipt Generation
* Flight Cancellation
* Passenger List Viewing for Airline Agents
* Crew List Viewing for Airline Agents
* Aircraft List Management for Admins
* Crew Management for Admins
* Airport Lounge Access Management for Registered Users
* Monthly Promotion News for Registered Users
* Free Companion Ticket Management for Registered Users
* User Registration and Profile Management
* Credit Card Application Process
* Dynamic Pricing Management
* Promotional Offer Management
* User History and Preferences Tracking

## System’s Use-Case UML Modeling

## System’s Scenarios

## System’s Conceptual Model