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**Airport Baggage Simulator**

**Design Document**

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## Introduction

In this document you will be presented with the UML class diagram and the sequence diagram of the application developed for the airport.

The UML diagram gives a broad overview of the functionality of the application. Moreover, we created a main system sequence diagram showing how the application works.

## UML Class Diagram

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## Sequence Diagram

In the conveyor class there is a method called Move() which is invoked from the current thread because its on timer. The method Move() calls another method CanMove() which checks if the bags can be moved on the conveyor belt. After reaching the final slot of the conveyor the conveyor object calls the method PassBaggage() in the PrimarySecurity class and passes the baggage to the security. The method ProcessInternal() calls specific implementation of the process method, then assigns the security next node. Then the method Move() just passes the bag to the next node.

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## Sketches

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The MDA stays for main distribution area. The purpose of this unit is to distribute the bags from the conveyors coming from the check-ins to the outcoming conveyors leading to the specific drop offs.

## Flow Diagram

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## System Diagram

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