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**PROGRAMMING II (STIA 1123)**

**SEMESTER II, 2019/2020**

**INDIVIDUAL WORK**

TOPIC OF THE REPORT:

Airport

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Title: Airport

The objective of this system is to determine the runway for each Airlines, which are West, East, South and North runway. The system also shows the characteristics for each Airlines. The Airport will cover 4 major Airlines for now, Air Asia, Malindo Air, Malaysia Airlines and Emirates. The system will accept the user’s name,email and his or her password to record the data

Type of Airlines:

* Air Asia
* Malindo Air
* Malaysia Airlines
* Emirates

Basic features for all Airline:

* Number of passengers
* Maximum of luggage
* Price
* Runway
* Type of Airplane
* Type of class that they offered (Economy and Business Class)

Characteristics for Air Asia:

1. The price is cheap
2. It can carry a maximum of 5.0KG of luggage per passenger
3. It is in the West Runway
4. Offered Economy class

Characteristics for Malindo Air:

1. The price is cheap
2. It can carry a maximum of 4.0KG of luggage per passenger
3. It is in the East Runway
4. Offered Economy class

Characteristics for Malaysia Airlines:

1. The price is average
2. It can carry a maximum of 7.0KG of luggage per passenger
3. It is in the North Runway
4. Offered Economy class and Business Class

Characteristics for Emirates:

1. The price is expensive
2. It can carry a maximum of 10.0KG of luggage per passenger
3. It is in the South Runway
4. Offered Economy class and Business Class

All of the number of passengers and type of airplane for all Airlines are the same. Therefore, the class AirAsia, class Malindo, class Malaysia, and class Emirates inherit from the class Similar. The class Similar will be the superclass and the other four class are their subclasses. This is Inheritance Concept.

After that, the passanger’s name, email, type of airplane that they choose, their respective runway and their type of class will be shown. This can be done by using the Encapsulation Concept.