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| Database Programming Project 2020 |
| To: Stephen Carter  From: Nguyen Pham  **Date: 22/05/2020**  **Re: Project Memo** |

**Flight Ticket Project**

*Project Topic:*

For the final project of the Database Programming course, I would like to make a database about browsing and creating flight ticket for customers. The database will have 3 tables, which are Customer, Booking, and Ticket (Booking table will be the table connect the many-to-many relationship between two others). The form will have two sections, the maintenance and browse, the maintenance will be Create Flight Ticket and Add New Customer; the browse section will be Browse Customer Information and Browse Flight Ticket. Some business rules below will specify more about the project.

*Business Rules:*

**001 –** Customers Information Input **Date:** May 20, 2020

**Category:** Structural Fact **Type:** Dynamic

**Description:**

A customer needs to be added to the system requires the information of: First Name, Last Name, Street Number, Street Name, City, Province, Country, Postal Code, Cell Number, Home Number.

**002 –** Tickets Information Input **Date:** May 20, 2020

**Category:** Structural Fact **Type:** Dynamic

**Description:**

A ticket needs to be added to the system requires the information of: Departure Time, Arrival Time, Departure Airport, Arrival Airport, The Start Place, Destination, Meal Included, Seat Type, Airlines Name, Initial Price, and Description (optional).

**003 –** Unavailable Tickets **Date:** May 20, 2020

**Category:** Structural Fact **Type:** Dynamic

**Description:**

If that kind of ticket has already been fully booked, that ticket will display a different state than the normal ticket.

**004 –** The Tax Amount **Date:** May 20, 2020

**Category:** Structural Fact **Type:** Dynamic

**Description:**

The price of a ticket is charged with a tax amount of 15%.

**005 –** The Payment Method **Date:** May 20, 2020

**Category:** Structural Fact **Type:** Dynamic

**Description:**

There are 4 ways for the customer to pay for the tickets: Debit Card, Credit Card, Cash, PayPal.

**006 –** The Airlines Name **Date:** May 20, 2020

**Category:** Structural Fact **Type:** Dynamic

**Description:**

Our app is only cooperated with these airlines: Air Canada, WestJet, All Nippon Airways, Japan Airlines.

**007 –** The Destination and Start Place **Date:** May 20, 2020

**Category:** Structural Fact **Type:** Dynamic

**Description:**

We are to announce our agency’ location, which will be the destination and start place of our tickets: Toronto, Moncton, Montreal, Vancouver, Halifax, Tokyo, Osaka.

**008 –** Unpaid Tickets **Date:** June 04, 2020

**Category:** Structural Fact **Type:** Dynamic

**Description:**

A customer can only have 2 unpaid tickets now, if he/she has 2 unpaid tickets, he/she cannot book another one.

**009 –** EVA Seat Type **Date:** June 04, 2020

**Category:** Structural Fact **Type:** Dynamic

**Description:**

EVA Airlines does not have Premium Economy Seat Type right now. Other than Premium Economy, EVA has all other sea types.