Continuing Education Program

Centre for Computing and Information Technology

Faculty of Engineering – University of Indonesia

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**TRAVELNOW**

**Created By:**

Christian Frans Mukuan

Deyaninta Ekabriela Permata

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Class

1CC6

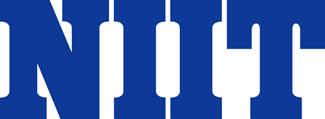
Faculty

Muhamad Hudya Ramadhana

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**Developed by :**

1. Christian Frans Mukuan
2. Deyaninta Ekabriela Permata (1920010050)
3. Mufadhal Faraz Addhifa (1920010128)



**PROJECT ON**

*TravelNow*

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Batch Code : 1CC6 (Group 7)

Start Date : November 28, 2019

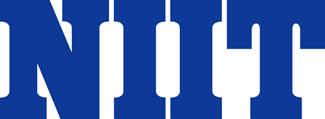
End Date : December 16, 2019

Date of Submission : December 17, 2019

Name of Faculty : Muhamad Hudya Ramadhana

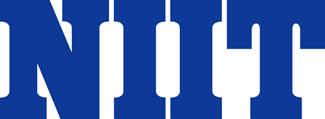
Names of Developer :

1. Christian Frans Mukuan
2. Deyaninta Ekabriela Permata (1920010150)
3. Mufadhal Faraz Addhifa (1920010128)



**TRAVELNOW**

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**CERTIFICATE**

This is to certify that this report titled “TravelNow” embodies the original work done by Christian Frans Mukuan, Deyaninta Ekabriela Permata, and Mufadhal Faraz Addhifa in partial fulfillment of their course requirement at NIIT.

Coordinator :

Muhamad Hudya Ramadhana

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**ACKNOWLEDGEMENT**

First of all, thanks to Allah SWT because we can complete this Project task both in the form of a presentation. We want to deliver sincere especially for Mr. Muhamad Hudya Ramadhana’s faculty and another faculty who always help. Thank you also to fellow students who have supported, and also thank you for being fellow workers in the education at CCIT-FTUI.

The Project paper entitled ‘TravelNow' the writers submits as Project's 2019 task requirements.

The hope of the writers hopefully this paper can be useful for all so that it can add knowledge and insight. The writers realize that this paper is far from perfect. Therefore, the writers expect all suggestions and criticisms from readers who are constructive for the perfection of this paper.

Depok, December 2019

Writers

Coordinator :

Muhamad Hudya Ramadhana

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**SYSTEM ANALYSIS**

**System Summary :** TravelNow is an Indonesian startup company that provides flight

ticket booking services, hotel tickets, tour tickets, transportation services that are complemented by tour guide services to accompany customers on international holidays to several Asian countries. Based on operations in Jakarta, TravelNow is focused on helping to manage the needs of Indonesian public holidays or business trips.

TravelNow’s database have 8 tables, 2 triggers, 2 procedure, and 2 views

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**DATABASE DESIGN**

**Database Name**: TravelNow

**Number of Schemas**: Schema Names:

1. users
2. passengers
3. bank\_account
4. packets
5. airlines
6. hotels
7. bookings

**Number of Tables**: 7 Table Names:

1. user\_bank.tbuser\_bank
2. users.tbusers
3. passengers.tbpassengers
4. packets.tbpackets
5. airlines.tbairlines
6. hotels.tbhotels
7. bank\_account.tbbank\_account
8. bookings.tbbookings

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**SCHEMATIC DIAGRAM OF THE DATABASE**

**Database Name**: TravelNow

A screenshot of a cell phone

Description automatically generated

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**Database Name**: TravelNow

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| idUser\_bank | INT | - | Code of user\_bank |
| user\_bankName | VARCHAR | 50 | Name of user\_bank |

user\_bank.tbuser\_bank

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| idUsers | INT | - | Code of users |
| usersName | VARCHAR | 230 | Name of users |
| usersEmail | VARCHAR | 20 | Email of users |
| usersPassword | VARCHAR | 20 | Password of users |
| usersAccount\_id | INT | - | Number of Account |
| usersAddress | TEXT |  | Address of users |
| usersPhone | VARCHAR | 15 | Phone of users |

users.tbusers

**TABLE DESIGN**

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|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| idPassengers | INT | - | Code Of passengers |
| passengersUsers\_id | INT | - | Number of users |
| passengersName | VARCHAR | 230 | Name of passengers |
| passengersAddress | TEXT | - | Address of passengers |
| passengersCity | VARCHAR | 25 | City of passengers |
| passengersPostal\_code | VARCHAR | 5 | Postal Code of Passengers |
| passengersPhone | VARCHAR | 15 | Phone of passengers |
| passengersAge | VARCHAR | 3 | Age of passengers |

passengers.tbpassengers

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| IdPackets | INT | - | Code Of packets |
| PacketsPrice | INT | - | Price of packets |
| packetsDescription | VARCHAR | 230 | Description of packets |
| packetsName | VARCHAR | 230 | Name of packets |

packets.tbpackets

**TABLE DESIGN**

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| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| IdAirlines | INT | - | Code Of airlines |
| airlinesPrice | INT | - | Price of airlines |
| airlinesDescription | VARCHAR | 230 | Description of airlines |
| airlinesName | VARCHAR | 230 | Name of airlines |

airlines.tbairlines

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| IdHotels | INT | - | Code Of hotels |
| hotelsPrice | INT | - | Price of hotels |
| hotelsDescription | VARCHAR | 230 | Description of hotels |
| hotelsName | VARCHAR | 230 | Name of hotels |

hotels.tbhotels

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| IdBank\_Account | INT | - | Code Of bank\_account |
| Bank\_accountName | VARCHAR | 50 | Name of bank\_account |

Bank\_account.tbbank\_account

**TABLE DESIGN**

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|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| idBookings | INT | - | Code Of bookings |
| bookingsUsers\_id | INT | - | Users\_id of bookings |
| bookingsPassengers\_id | INT | - | Passengers\_id of bookings |
| bookingsHotels\_id | INT | - | Hotels\_id of bookings |
| bookingsPackets\_id | INT | - | Packets\_id of bookings |
| bookingsAirlines\_id | INT | - | Airlines\_id of bookings |
| bookingsEstimation | INT | - | Estimation of bookings |
| bookingsAmount | INT | - | Amount of bookings |
| bookingsTransactiondate | DATE TIME | - | Transactiondate of bookings |
| bookingsBank\_account\_id | INT | - | Bank\_account\_id of bookings |
| bookingsTransfers | VARCHAR | 1 | Transfers of bookings |
| bookingsPaid\_at | DATE TIME | - | Paid\_at\_bookings |

Bookings.tbbookings

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| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| IdInvoice | INT | - | Code Of invoice |
| invoiceBookings\_id | INT | - | Bookings\_id of Invoice |
| invoiceUsers\_id | INT | - | Users\_id of invoice |
| invoiceUser\_bank | INT | - | User\_bank of invoice |

Invoice.tbinvoice

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**VALIDATIONS PERFORMED**

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| --- | --- |
| **Validation Required** | **Method(s) Used For Validation** |
| user\_bankcode must be unique | Primary key constraint |
| user\_bankname | - |

user\_bank.tbuser\_bank

|  |  |
| --- | --- |
| **Validation Required** | **Method(s) Used For Validation** |
| userscode must be identity | Primary key constraint |
| username | Default ‘Guest’ |
| useremail must be unique | NOT NULL clause in the CREATE TABLE statement |
| Account\_id | Foreign key references |
| userpassword, useraddress, usercity | NOT NULL clause in the CREATE TABLE statement |
| userphone must be unique | NOT NULL clause in the CREATE TABLE statement |

user.tbuser

|  |  |
| --- | --- |
| **Validation Required** | **Method(s) Used For Validation** |
| passengersid must be identity | Primary key constraint |
| user\_id | Foreign key references |
| passengersname, passengersaddress, passengerscity, passengerspostal\_code, passengersage | NOT NULL clause in the CREATE TABLE statement |
| passengersphone must be unique | NOT NULL clause in the CREATE TABLE statement |

passengers.tbpassengers

|  |  |
| --- | --- |
| **Validation Required** | **Method(s) Used For Validation** |
| packetsid must be identity | Primary key constraint |
| packetsprice | NOT NULL clause in the CREATE TABLE statement |
| packetsdescription | - |
| packetsname | - |

packets.tbpackets

|  |  |
| --- | --- |
| **Validation Required** | **Method(s) Used For Validation** |
| airlinesid must be identity | Primary key constraint |
| airlinesprice | NOT NULL clause in the CREATE TABLE statement |
| airlinesdescription | - |
| airlinesname | - |

Airlines.tbairlines

|  |  |
| --- | --- |
| **Validation Required** | **Method(s) Used For Validation** |
| hotelsid must be identity | Primary key constraint |
| hotelsprice | NOT NULL clause in the CREATE TABLE statement |
| hotelsdescription | - |
| hotelsname | - |

hotels.tbhotels

|  |  |
| --- | --- |
| **Validation Required** | **Method(s) Used For Validation** |
| bank\_accountid must be identity | * Primary key constraint * NOT NULL clause in the CREATE TABLE statement |
| bank\_accountname | - |

Bank\_account.tbbank\_account

|  |  |
| --- | --- |
| **Validation Required** | **Method(s) Used For Validation** |
| bookingsid must be identity | Primary key constraint |
| users\_id, passengers\_id, hotels\_id, packets\_id, airlines\_id, bank\_account\_id | Foreign key references |
| estimation | - |
| amount | NOT NULL clause in the CREATE TABLE statement |
| transactiondate should be entered in the format (transactiondate < getdate()) | Check constraint |
| transfersbookings | Default ‘N’ |
| paid\_at should be entered in the format (paid\_at < getdate()) | Check constraint |

Bookings.tbbookings

**CONFIGURATION**

**Hardware** :

HP Pavilion x360 Convertible Intel® Core™ i5-6200U

**Operating System** :

Windows 10 Home Single Language 64-bit (10.0, Build 18362)

**Software** :

Microsoft SQL Server 2017 Express Edition

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| **PROJECT FILE DETAILS** | | |
| **S.No** | **File Name** | **Remarks** |
| 1. | Paper project 3.docx | To show the contents of the project in detail |
| 2. | Project 3.pptx | To show and explained the content of the project |
| 3. | Try2.0.sql | To make the query of the project database |
| 4. | ERD.file | To show, simplify processes or procedures to be easily understand |