

**Continuing Education Program**

**Center for Computing and Information Technology**

**Fakultas Teknik Universitas Indonesia**

**TRUCKING MANAGEMENT SYSTEM**

3SC4

Faculty : Ms. Emma Yulianti, S.T, MM

Gedung Pascasarjana Lt.3 Fakultas Teknik-Universitas Indonesia

Kampus Baru UI Depok 16424

**PROJECT ON**

Developed By

Name : Farhan Ramadhan

Rangga Widya Pradipta

Reg. No : 1410010007

1410010058



**TRUCKING MANAGEMENT SYSTEM**

Batch Code : 3SC4

Start Date : October 18th, 2015 End Date : October 29th, 2015

Name Of The Coordinator : Emma Yulianti, S.T, MM

Name Of Developer : Farhan Ramadhan

Rangga Widya Pradipta

Date Of Submission : October 30th, 2015





**CERTIFICATE**

This is to certify that this report, titled Trucking Management System, embodies the  
Original work done by **Farhan Ramadhan** and **Rangga Widya Pradipta** in partial fulfillment of his course requirement at NIIT.

Coordinator :

Emma Yulianti, S.T, MM

**ACKNOWLEDGEMENT**

The Project presentation opportunity we have with CCIT-FTUI is a great chance for learning and professional development. Therefore, we consider ourselves very lucky as we are provided with an opportunity to be a part of it. We are also grateful for having a change to meet so many wonderful people and professionals who led us through this project period.

Bearing in mind, we would like to express our deepest gratitude and special thanks to Ms. Emma Yulianti of CCIT-FTUI faculty who is spite of being extraordinarily busy with her duties, took time out to hear, guide and keep us on the correct path and allowing us to carry out our project until completion.

Our Project assignment won’t be as good as it is now without any help, feedback and suggestion that were given to us by our friends within the campus. So, we would also like to say thank you to all of them. We will strive to use gained skills and knowledge in the best possible way, and we will continue to work on the improvements, in order to attain desired carrer objective.

**SYSTEM ANALYSIS**

**System Summary:** Trucking Management System is an application to give the user some service in delivering something, in this application we have The Data Driver to give info about Driver, Data Truck and Equipment to give info and ordering some equipment, Data Destination to give Info to user about the Location, and the last we have Trucking to give some process about Trucking report.

**HARDWARE AND SOFTWARE REQUIREMENTS**

SYSTEM CONFIGURATION

**Hardware** : Processor Intel®, Core™ i3-3110M [CPU](mailto:CPU@2.50GHz) @2.40GHz   
: 6GB of RAM  
: CD ROM Drive  
: 500GB of HDD

**Operating system** : Microsoft Windows 8.1 Pro, 64-bit

**Software** : Microsoft Visual Studio 2013, Sql Server 2014.

Project

**”LIBRARY SYSTEM”**

**CLASS DIAGRAM**

FormDriver

Dt : DataTable

Sqlconn : SqlConnection

Da : SqlDataAdapter

Sqlcom : SqlCommand

Login

Username : String

Password : String

Main Menu

FormDriver,FormTruck, FormEquip,FormDest, FormTrucking,Range.

FormTruck

Dt : DataTable

Sqlconn : SqlConnection

Da : SqlDataAdapter

Sqlcom : SqlCommand

FormTrucking

Dt : DataTable

Sqlconn : SqlConnection

Da : SqlDataAdapter

Sqlcom : SqlCommand

FormEquip

Dt : DataTable

Sqlconn : SqlConnection

Da : SqlDataAdapter

Sqlcom : SqlCommand

Range

Dt : DataTable

Sqlconn : SqlConnection

Da : SqlDataAdapter

Sqlcom : SqlCommand

FormDest

Dt : DataTable

Sqlconn : SqlConnection

Da: SqlDataAdapter

Sqlcom : SqlCommand

**INDIVIDUAL PROJECT SCHEDULE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S. No. | Activity Description | Planned Date of Completion | Actual Date | Responsibility | Remarks |
| 1 | Creating the Admin form | 12th Oct 2015 | 12th Oct 2015 | Farhan and Rangga |  |
| 2 | Creating the Driver form | 12th Oct 2015 | 12th Oct 2015 | Farhan and Rangga |  |
| 3 | Creating the Truck form | 12th Oct 2015 | 12th Oct 2015 | Farhan and Rangga |  |
| 4 | Creating the Equipment form | 12th Oct 2015 | 12th Oct 2015 | Farhan and Rangga |  |
| 5 | Creating the Destination form | 12th Oct 2015 | 12th Oct 2015 | Farhan and Rangga |  |
| 6 | Creating the Range form | 12th Oct 2015 | 12th Oct 2015 | Farhan and Rangga |  |
| 7 | Creating the Trucking form | 12th Oct 2015 | 12th Oct 2015 | Farhan and Rangga |  |
| 8 | Creating the TypeEquipment form | 12th Oct 2015 | 12th Oct 2015 | Farhan and Rangga |  |
| 9 | Creating the Main Menu form | 13th Oct 2015 | 13th Oct 2015 | Farhan and Rangga |  |
| 10 | Creating connection with SQL Server | 12th Oct 2015 | 12th Oct 2015 | Farhan and Rangga |  |
| 11 | Creating reports | 26th Oct 2015 | 27th Oct 2015 | Farhan and Rangga |  |
| 12 | Creating documentation | 28th Oct 2015 | 29th Oct 2015 | Farhan and Rangga |  |

**DATABASE DESIGN**

Database Name: TMS

Number of tables: 8

Tables Name:

1. ADMIN
2. DRIVER
3. TRUCK
4. EQUIPMENT
5. DESTINATION
6. RANGE
7. TRUCKING
8. TYPEEQUIPMENT

**TABLE DESIGN**

Database Name : TMS

1. ADMIN

|  |  |  |
| --- | --- | --- |
| Column Name | Data type | Width |
| AdminID | Nchar | 10 |
| Name | Varchar | 50 |
| Password | Varchar | 50 |
| Phone | Varchar | 20 |
| Gender | Varchar | 20 |

1. DRIVER

|  |  |  |
| --- | --- | --- |
| Field name | Data type | Width |
| DriverID | nchar | 10 |
| Name | Varchar | 50 |
| Address | Text | - |
| PhoneNumber | Nchar | 15 |
| DateOfJoin | Date | - |
| Gender | Varchar | 50 |

1. TRUCK

|  |  |  |
| --- | --- | --- |
| Field name | Data type | Width |
| TruckID | nchar | 10 |
| VN | nchar | 10 |
| EquipID | nchar | 10 |
| DriverID | nchar | 10 |

1. EQUIPMENT

|  |  |  |
| --- | --- | --- |
| Field name | Data type | Width |
| EquipID | nchar | 10 |
| Product | varchar | 50 |
| Weight | int | - |
| Type | varchar | 50 |
| TotPrice | int | - |

1. DESTINATION

|  |  |  |
| --- | --- | --- |
| Field name | Data type | Width |
| DestID | nchar | 10 |
| Address | text | - |
| RangeID | nchar | 10 |
| City | varchar | 20 |
| Price | int | - |

1. RANGE

|  |  |  |
| --- | --- | --- |
| Field name | Data type | Width |
| RangeID | nchar | 10 |
| City | varchar | 20 |
| Price | int | - |

1. TYPEEQUIPMENT

|  |  |  |
| --- | --- | --- |
| Field name | Data type | Width |
| TypeID | varchar | 50 |
| Type | varchar | 50 |
| TypePrice | int | - |

1. TRUCKING

|  |  |  |
| --- | --- | --- |
| Field name | Data type | Width |
| TruckingID | nchar | 10 |
| TruckID | nchar | 10 |
| EquipID | nchar | 10 |
| DestID | nchar | 10 |
| TotPrice | int | - |

**VALIDATIONS PERFORMED**

**ADMIN :**

|  |  |
| --- | --- |
| **Validation Required** | **Method Used For Validation** |
| Admin ID | Primary Key Constraint |
| Name | Null clause on the CREATE TABLE |
| Password | Null clause on the CREATE TABLE |

**DRIVER :**

|  |  |
| --- | --- |
| **Validation Required** | **Method Used For Validation** |
| Driver ID | Primary Key Constraint |
| Name | Null clause on the CREATE TABLE |
| Address | Null clause on the CREATE TABLE |
| Phone Number | Null clause on the CREATE TABLE. Verify for number format entered by the user. |
| Date Of Join | Null clause on the CREATE TABLE |
| Gender | Null clause on the CREATE TABLE |

**TRUCK :**

|  |  |
| --- | --- |
| **Validation Required** | **Method Used For Validation** |
| Truck ID | Primary Key Constraint |
| VN(Vehicle Number) | Null clause on the CREATE TABLE. Verify for number format entered by the user. |
| Equip ID | Foreign Key Constraint |
| Driver ID | Foreign Key Constraint |

**EQUIPMENT :**

|  |  |
| --- | --- |
| **Validation Required** | **Method Used For Validation** |
| Equip ID | Primary Key Constraint |
| Product | Null clause on the CREATE TABLE |
| Weight | Not Null clause on the CREATE TABLE. Verify for number format entered by the user. |
| Type | Not Null clause on the CREATE TABLE |
| Total Price | Null clause on the CREATE TABLE. Verify for number format entered by the user. |

**DESTINATION**

|  |  |
| --- | --- |
| **Validation Required** | **Method Used For Validation** |
| Id must be unique | Primary key clause in the create table statement |
| Name\_type | Must be filled |

**RANGE**

|  |  |
| --- | --- |
| **Validation Required** | **Method Used For Validation** |
| Id must be unique | Primary key clause in the create table statement |
| Name\_type | Must be filled |

**TRUCKING :**

|  |  |
| --- | --- |
| **Validation Required** | **Method Used For Validation** |
| Trucking ID | Primary Key Constraint |
| Truck ID | Foreign Key Constraint |
| Equip ID | Foreign Key Constraint |
| Dest ID | Foreign Key Constraint |
| Total Price | Null clause on the CREATE TABLE. Verify for number format entered by the user. |

**TYPEEQUIPMENT :**

|  |  |
| --- | --- |
| **Validation Required** | **Method Used For Validation** |
| Type ID | Primary Key Constraint |
| Type | Null clause on the CREATE TABLE. |
| Type Price | Null clause on the CREATE TABLE. Verify for number format entered by the user. |

**RANGE :**

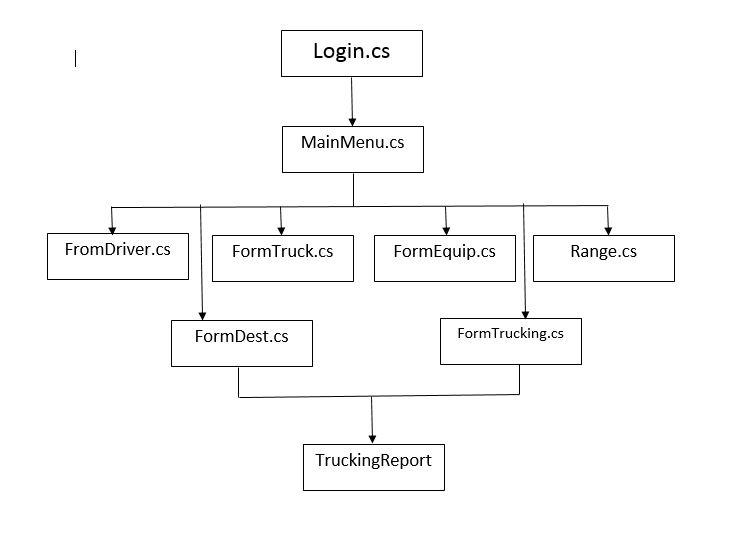
|  |  |
| --- | --- |
| **Validation Required** | **Method Used For Validation** |
| Range ID | Primary Key Constraint |
| City | Null clause on the CREATE TABLE. |
| Price | Null clause on the CREATE TABLE. Verify for number format entered by the user. |

**DESTINATION :**

|  |  |
| --- | --- |
| **Validation Required** | **Method Used For Validation** |
| Dest ID | Primary Key Constraint |
| Address | Not Null clause on the CREATE TABLE. |
| Range ID | Foreign Key Constraint |
| City | Not Null clause on the CREATE TABLE. |
| Price | Null clause on the CREATE TABLE. Verify for number format entered by the user. |

**LOGICAL FLOW DIAGRAM**

Logical Flow Diagram representing the control flow of Trucking Management System.



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