

**PROJECT**

**YR CLINIC**

Created By:

* Nisrina Novalinda
* Raden Satria Yudha Purba Jagad

Faculty: Bayu Citra Nur Aulia

Class: 3SC1

Continuing Education Program Center for Computing and Information Technology

Faculty of Engineering, University of Indonesia

2017

**PROJECTON**

*YR Clinic*

Developed By

Name :

*Nisrina Novalinda Zein*

*Raden Satria Yudha Purba Jagad*

Reg. No.:

NIIT

**YR Clinic**

Batch Code : 3SC1

Start Date : October 11th, 2017

End Date : October 19th , 2017

Name Of The Coordinator : Bayu Citra Nur Aulia S.T,M.TI

Name Of Developer : *Nisrina Novalinda*

*Raden Satria Yudha Purba Jagad*

Date Of Submission : October 20th, 2017

NIIT

**CERTIFICATE**

This is to certify that this report, titled ***YR Clinic***,embodies the original work done by ***Nisrina Novalinda and Raden Satria Yudha Purba Jagad*** in partial fulfillment of their course Requitment at NIIT.

Coordinator: ***Mrs. Bayu Citra Nur Aulia S.T,M.TI***

**ACKNOWLEDGEMENT**

We have got a lot of benefit from suggestions that given to us by Mrs. Bayu Citra Nur Aulia and other faculty members. We would like to thank Mrs. Bayu Citra who guide, teach, and also help us in the making of this project. And we also thank God because we can complete this project.

**SYSTEM ANALYSIS**

**System Summary**: System in the clinic is still very complicated for patients who need care required long queue when patient has registered, the payment system errors may occur due to still use the traditional way hence many records that are not registered.

YR clinic application system saves time of patients who have been registered so patients do not need to register again and just wait their turn and for payment will be recorded properly so that the bookkeeping is done.

**HARDWARE AND SOFTWARE REQUIREMENTS**

**Hardware** **:** IntelR CoreTM i7-6700 HQ CPU @ 2,60GHz 2,50 GHz, 8.00GB RAM, 1 TB HDD, Asus GL552 VX

**Operating System:** Microsoft Windows 10 pro

**Software:** Microsoft Visual Studio 2015, Crystal Report 2013, and SQL Server 2016

**INDIVIDUAL PROJECT SCHEDULE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Activity Description | Planned Date of Completion | Actual Date | Responsibility |
| 1. | Creating all forms | 11th Oct 2017 | 11th Oct 2017 | Nisrina |
| 2. | Creating database | 13th Oct 2017 | 14th Oct 2017 | Nisrina |
| 3. | Creating connection with SQL Server | 14th Oct 2017 | 14th Oct 2017 | Yudha |
| 4. | Design all forms | 15th Oct 2017 | 15th Oct 2017 | Yudha |
| 5. | Creating reports | 16th Oct 2017 | 17th Oct 2017 | Nisrina |

**DATABASE DESIGN**

**Database Name**: YR

**Number of tables**: 9

**Table Names**:

1. dbo.AccessLogin
2. Doctor.Doctor
3. Doctor.Specialist
4. Patient.Patient
5. Patient.Payment
6. Patient.Treatment
7. Recipe.Drug
8. Recipe.Recipe
9. Recipe.RecipeDetail

**TABLE DESIGN**

**Database Name**: YR

**dbo.AccessLogin**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| Id\_User | varchar | 5 | User Identity (ID) |
| Username | varchar | 25 | The Username |
| UPassword | varchar | 25 | Password |
| isAdmin | int |  | Admin Identity |

**Doctor.Doctor**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| id\_staff | int |  | Staff ID |
| staff\_name | char | 10 | Name of the Staff |
| Contact | varchar | max | Contact of the Staff |
| Responsibility\_cage | int |  | Cage that are taken care |

**dbo.AccessLogin**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| Id\_Specialist | varchar | 6 | Specialist ID |
| Specialist | varchar | 150 | Specialist Name |
| Fare | varchar | 150 | The Fare |

**Patient.Patient**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| Id\_Patient | varchar | 6 | Patient Identity (ID) |
| Patient\_Name | varchar | 255 | Name of Patient |
| DateOfBirth | date |  | Patient Date of Birth |
| Address | Varchar | 255 | Adress of Patient |
| GenderPatient | char | 10 | Gender of Patient |

**Patient.Payment**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| Id\_Payment | varchar | 8 | ID of Payment |
| Id\_Treatment | varchar | 6 | ID of Treatment |
| PaymentDoctor | money |  | Payment of Doctor |
| PaymentDrug | money |  | Payment of Drug |
| TotalPayment | money |  | Total of Payment |

**Patient.Treatment**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| Id\_Treatment | varchar | 6 | Treatment ID |
| Id\_Patient | varchar | 6 | Patient ID |
| Id\_Doctor | varchar | 6 | Doctor ID |
| Id\_Recipe | varchar | 6 | Recipe ID |
| Diagnose | varchar | 150 | Diagnose Type |
| DateTreatment | date |  | Date of Treatment |

**Recipe.Drug**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| Id\_Drug | varchar | 8 | Drug ID |
| DrugName | varchar | 150 | Name of the Drug |
| DrugType | varchar | 100 | Type of the Drug |
| Stock | Int |  | Drug Stock |
| ExpDate | Date |  | The Expire Date of Drug |
| Price | money |  | Price of the Drug |

**Recipe.Recipe**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| Id\_Recipe | varchar | 6 | Recipe ID |
| Total | money |  | Patient ID |

**Recipe.RecipeDetail**:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Description** |
| Id\_RecipeDetail | varchar | 7 | Recipe Detail ID |
| Id\_Recipe | varchar | 6 | Recipe ID |
| Id\_Drug | varchar | 8 | Drug ID |
| Qty | Int |  | Quantity of recipe |
| Dose | varchar | 150 | Dose of the Drug |
| Subtotal | money |  | Subtotal |

**Dbo.AccessLogin**:

|  |  |
| --- | --- |
| Validation Required | Method Used For Validation |
| Id\_User | Primary key constraint |
| Username and UPassword | NOT NULL clause in the CREATE TABLE statement |

**Doctor.Doctor**:

|  |  |
| --- | --- |
| Validation Required | Method Used For Validation |
| Id\_Doctor must be unique | Primary key constraint |
| DoctorName, DoctorGender, DateOfBirt, Phone | NOT NULL clause in the CREATE TABLE statement |

**Doctor.Specialist**:

|  |  |
| --- | --- |
| Validation Required | Method Used For Validation |
| Id\_Specialist | Primary key constraint |
| Specialist and Fare | NOT NULL clause in the CREATE TABLE statement |

**VALIDATIONS PERFORMED**

**Patient.Patient**:

|  |  |
| --- | --- |
| Validation Required | Method Used For Validation |
| Id\_Patient | Primary key constraint |
| Patient\_Name, DateOfBirth, Address, and GenderPatient | NOT NULL clause in the CREATE TABLE statement |

**Patient.Payment**:

|  |  |
| --- | --- |
| Validation Required | Method Used For Validation |
| Id\_Payment | Primary key constraint |
| PaymentDoctor | NOT NULL clause in the CREATE TABLE statement |

**Patient.Treatment**:

|  |  |
| --- | --- |
| Validation Required | Method Used For Validation |
| Id\_Treatment | Primary key constraint |
| Diagnose | NOT NULL clause in the CREATE TABLE statement |

**Recipe.Drug**:

|  |  |
| --- | --- |
| Validation Required | Method Used For Validation |
| Id\_Drug | Primary key constraint |
| DrugName, DrugType, Stock, ExpDate, and Price | NOT NULL clause in the CREATE TABLE statement |

**Recipe.Recipe**:

|  |  |
| --- | --- |
| Validation Required | Method Used For Validation |
| Id\_Recipe | Primary key constraint |
| Total | NOT NULL clause in the CREATE TABLE statement |

**Recipe.RecipeDetail**:

|  |  |
| --- | --- |
| Validation Required | Method Used For Validation |
| Id\_RecipeDetail | Primary key constraint |
| Qty and Dose | NOT NULL clause in the CREATE TABLE statement |

**Logical Form Diagram representing the control flow of YR Clinic application.**





**LOGICAL FLOW DIAGRAM**