APTECH COMPUTER EDUCATION  
CLASS C1712L

\*\*\*

**eProject**

**Application Design**

**ONLINE HEALTH INSURANCE MANAGEMENT**

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**The preface**

In the process of studying at Aptech Computer Education, we have gained a lot of valuable knowledge from teachers and classmates. Besides, during the implementation of the third-semester project, we received the enthusiastic and thoughtful guidance of Mr. Phan Huu Tri. Therefore, this third-semester project is a combination of theory and practice that we have learned in recent times. The project with the theme "**Application Design of Online Health Insurance Management**" is the result that we have applied in the learning process.

We would like to sincerely thank our teachers at Aptech Computer Education and especially Mr. Phan Huu Tri for helping us to complete our third-semester project.

Finally, we would like to wish Aptech Computer Education's teachers always abundant in health, success in life, and new achievements in their work.

***We sincerely thank you!***

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# Acknowledgements

You have choices when you shop for [health insurance](https://www.webmd.com/health-insurance/zz-old-toc). If you're buying from your state's [Marketplace](https://www.webmd.com/health-insurance/insurance-marketplace/marketplace-insurance-choices) or from an insurance broker, you'll choose from [health plans](https://www.webmd.com/health-insurance/types-of-health-insurance-plans) organized by the level of benefits they offer: [bronze](https://www.webmd.com/health-insurance/insurance-basics/terms/bronze-plan), [silver](https://www.webmd.com/health-insurance/insurance-basics/terms/silver-plan), [gold](https://www.webmd.com/health-insurance/insurance-basics/terms/gold-plan), and platinum. Bronze plans have the least coverage, and platinum plans have the most.

How are the plans different? Each one pays a set share of costs for the average enrolled person. The details can vary across plans. In addition, deductibles -- the amount you pay before your plan picks up 100% of your health care costs -- vary according to plan, generally with the least expensive carrying the highest deductible.

There are 3 common types of insurances

* Platinum: covers 90% on average of your medical costs; patient pay 10%
* Gold: covers 80% on average of your medical costs; patient pay 20%
* Silver: covers 70% on average of your medical costs; patient pay 30%

# eProject Synopsis

This project is aimed to developing an online Health Insurance System. An Organization wants to start Health Insurance for its employees. The Medicare system will maintain all information related to the employee (Patient), maintenance of Claims pertaining to the Insurance companies, information about all sort of medical services providing by the hospital to the corporate employees, claim settlements & adjustments against their services authorizing by the Insurance Companies. Additionally this system can also maintain the health related all information of the employees.

# eProject Analysis

The application get databases from the SQL server then show in Views.

There 2 types of user:

* Admin: who manage the insurance packs and patients.
* Employees: any people would like to join a insurance pack. They can go to our web for insurance packs searching then register.

In this project, we work with 8 objects:

* Admin - who manage this web with full permission (add/update/delete)
* Employees - every employees should own their insurance
* Hospitals - each patient choose a hospital which they want
* Insurance Companies – each company have many medicals.
* Medicals – the kinds of insurance packs which is provided via the insurance company.
* Policies – In a medical has many policies, in out project there are 3 types: the platinum, the gold and the silver
* Requisitions – The employee should register a insurance in a form then send to the admin
* Bills – When employee would like a compensation, they create a bill to the admin.

# eProject Design

## Flow Charts

* Admin site
* Patient site

## Process Diagrams

## Database Design / Structure

There are 12 tables in the database.

Table 1: AdminLogin

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | UserName | Varchar(50) | 🞎 |
| 3 | Password | Varchar(50) | 🞎 |
| 4 | UserType | Int | 🗹 |
| 5 | FirstName | Varchar(50) | 🗹 |
| 6 | LastName | Varchar(50) | 🗹 |
| 7 | Phone | Varchar(50) | 🗹 |
| 8 | Email | Varchar(50) | 🗹 |
| 9 | Address | Varchar(50) | 🗹 |

Table 2: Bill

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | InsuranceId | Int | 🞎 |
| 3 | Status | Int | 🗹 |
| 4 | Description | Varchar(250) | 🗹 |

Table 3: CompanyDetails

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | CompanyName | Varchar(50) | 🞎 |
| 3 | Address | Varchar(150) | 🗹 |
| 4 | Phone | Varchar(50) | 🗹 |
| 5 | CompanyUrl | Varchar(50) | 🗹 |

Table 4: Employees

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | Designation | Varchar(50) | 🗹 |
| 3 | JoinDate | Datetime | 🗹 |
| 4 | Salary | Money | 🗹 |
| 5 | FirstName | Varchar(50) | 🗹 |
| 6 | LastName | Varchar(50) | 🗹 |
| 7 | Username | Varchar(50) | 🗹 |
| 8 | Password | Varchar(50) | 🗹 |
| 9 | Address | Varchar(150) | 🗹 |
| 10 | Phone | Varchar(50) | 🗹 |
| 11 | State | Varchar(50) | 🗹 |
| 12 | Country | Varchar(50) | 🞎 |
| 13 | City | Varchar(50) | 🗹 |
| 14 | Status | Int | 🗹 |

Table 5: Hospitals

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | HospitalName | Varchar(50) | 🗹 |
| 3 | Phone | Varchar(50) | 🗹 |
| 4 | Location | Varchar(50) | 🗹 |
| 5 | HospitalUrl | Varchar(50) | 🗹 |

Table 6: Medicals

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | MedicalName | Varchar(250) | 🗹 |
| 3 | MedicalDescription | Varchar(250) | 🗹 |
| 4 | CompayId | Int | 🗹 |
| 5 | HospitalId | Int | 🗹 |

Table 7: Policies

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | PolicyName | Varchar(50) | 🗹 |
| 3 | PolicyDesc | Varchar(250) | 🗹 |
| 4 | Amount | Money | 🗹 |
| 5 | Emi | Money | 🗹 |
| 6 | PolicyDuration | Int | 🗹 |
| 7 | MedicalId | Int | 🗹 |

Table 8: PoliciesOnEmployees

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | EmpId | Int | 🞎 |
| 3 | PolicyId | Int | 🞎 |
| 4 | StatusId | Int | 🗹 |

Table 9: PolicyRequestDetails

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | RequestDate | Datetime | 🗹 |
| 3 | EmpId | Int | 🞎 |
| 4 | PolicyId | Int | 🗹 |
| 5 | PolicyName | Varchar(50) | 🗹 |
| 6 | PolicyAmount | Money | 🗹 |
| 7 | Emi | Money | 🗹 |
| 8 | CompanyId | Int | 🗹 |
| 9 | CompanyName | Varchar(50) | 🗹 |
| 10 | Status | Bit | 🞎 |
| 11 | Approvedate | Datetime | 🗹 |
| 12 | Reason | Varchar(250) | 🗹 |
| 13 | RequestId | Int | 🗹 |
| 14 | MedicalId | Int | 🗹 |

Table 10: Status

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | Status | Varchar(250) | 🗹 |

Table 11: UserStatus

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | StatusName | Varchar(250) | 🗹 |

Table 12: UserType

|  |  |  |  |
| --- | --- | --- | --- |
| No# | Column Name | Data Type | Allow Nulls |
| 1 (primary key) | Id | Int | 🞎 |
| 2 | Name | Varchar(250) | 🗹 |

# Screen Shot’s

# User Guide

1. Admin

* Root
* Manager
* Finance manager

1. Employee (patient)

* Login
* Register a insurance package
* Patient profile
* Permission

# Developer’s Guide

## Administration

## Employee

## Search

## Report

## Authentication