

QUEST INFORMATION SYSTEM

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ABSTRACT

The Quest Info System is a system developed for Quest Phil Diagnostics. Its purpose is to give its patients, corporate clientele and medical/allied professional to achieve diagnostics test conducted at the facility in the following advantages: To have 0% error in details of patient record and to give the latest format of the Medical Examination Report and Physical Examination form. Also, to have an easy access and available summary report for corporate clientele, human resource development, and finance department. To have real time result available, anytime and anywhere and to have 100% medical archiving facility.

INTRODUCTION

Information system, an integrated set of components for collecting, storing, and processing data and for providing information, knowledge, and digital products. Business firms and other organizations rely on information systems to carry out and manage their operations, interact with their customers and suppliers, and compete in the marketplace. Information systems are used to run interorganizational supply chains and electronic markets. For instance, corporations use information systems to process financial accounts, to manage their human resources, and to reach their potential customers with online promotions. Many major companies are built entirely around information systems.

DIS (Diagnostics Information System) is a technology solution was specifically designed for immediate use by all test results data users in physician offices, hospital inpatient facilities and outpatient clinics and community health centers. Its implementation will depend on collaborative innovation among a number of interdependent stakeholders. These include all the test results data providers in hospital and community-based clinical laboratories and in imaging and other testing facilities and the vendors of EHRs and PHRs, as well as the vendors of HIE data integration and exchange platforms and the RHIOs/HIEs that they serve. Patented technology solution that provides detailed specifications for a clinically integrated, comprehensive and standard format for displaying patient test results in the same way across all points of care. DIS also a universal interface that can be easily embedded in the presentation layer of any ambulatory or hospital electronic health record (EHR), personal health record (PHR) or health information exchange (HIE). It is ideally suited for the development of customized, event-driven clinical decision support system (CDSS) applications. As the decades passed, the most commonly implemented systems were those designed to automate transactions, either in a clinical or administrative context. An obvious result of more transaction systems installations was the dramatic increase in readily available digitized data

STATEMENT OF THE PROBLEM

- a) Errors in the patient records is inevitable because of the manual handwritten process.
- b) Latest accomplished Medical Examination Reports and forms of the patients cannot be provided immediately because of the manual process.
- c) Manual generation or processing of summary reports is time consuming and can give inaccurate results.
- d) Results are only available on print outs, thus, results can only be viewed or access once delivered to the client/patient.
- e) Manual archiving takes time and space.

OBJECTIVE

The main objective of the “Quest Info System” is to provide every patient consistent, fast and reliable service. Specifically, the facility would like:

- a) To have 0% error in details of patient record.
- b) To give the latest format of the Medical Examination Report and Physical Examination form.
- c) To have an easy access and available summary report.
- d) To have real time result available anytime and anywhere.
- e) To have 100% medical archiving facility.

DELIMITATIONS

1. The facility uses the QuickBooks pos to transact cash/payments. The system can only do the account transactions.
2. The system generates manual pdf results for uploading of results to designated google drives for each company.
3. The system is not directly connected to the website(www.questphil.com.ph).

RECOMMENDATIONS

1. For the Cashier Module, additional code for transacting cash. The system must be able to have this to do all the transactions and to generate reports/sales within the system to avoid conflict/confusion.
2. For uploading and distribution of results, the system must have a button/function to automatically generate single or batch pdf results for lesser work.
3. Also, for uploading and distribution of results, the system must be available offline/online. Online, to connect it to the quest website so that available results can be downloaded by the clients from it.

VERSIONS

VERSION 1 - SYSTEM OUTPUT AND DESIGN

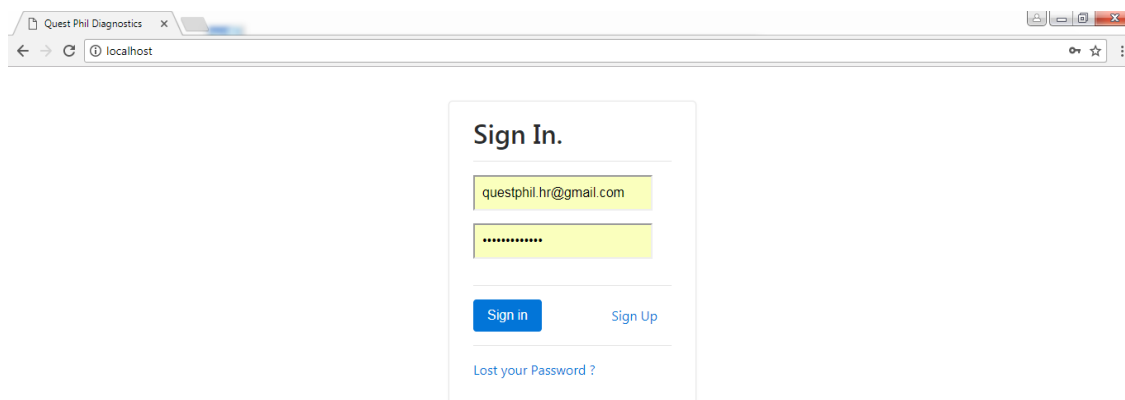
Figure 1: Sign up form

The screenshot shows a web browser window with the address bar displaying 'localhost/signup.php'. The page content is a sign-up form titled 'Sign Up'. The form contains the following elements:

- A text input field labeled 'Username'.
- A text input field containing the email address 'questphil.hr@gmail.com'.
- A password input field with masked characters (dots) and a label 'Please'.
- A dropdown menu labeled 'Choose:' with 'Doctor' selected.
- A 'Sign Up' button.
- A 'Sign In' link.

This figure is for creating accounts. Username, email for the verification and password for security purposes. On the last module, you will choose what position you're employed because every position has an exclusive feature for them.

Figure 2: Login/Sign in Form



The screenshot shows a web browser window with the title 'Quest Phil Diagnostics'. The address bar displays 'localhost'. The main content area features a 'Sign In.' form. The form has two input fields: the first contains the email 'questphil.hr@gmail.com' and the second contains a masked password '.....'. Below the input fields are two buttons: a blue 'Sign in' button and a blue 'Sign Up' button. At the bottom of the form, there is a link that reads 'Lost your Password ?'.

This figure is for the login interface. Now in this part, those data (information) that you inputted when you sign up will be needed according to what the field (textbox) demands.

Figure 3: Physical Examination Form

QUEST PHIL DIAGNOSTICS

Laboratory • Imaging • Day-Surgery • Dental • Pharmacy

www.questphil.com.ph
info@questphil.com.ph

HOME SERVICE
09176260911
09437278378

QUEST PHIL DIAGNOSTICS MEDICAL EXAMINATION REPORT			
Company: OWENS ASIA		Date: 2017-08-21 12:32:01	
Name: GUNDAYA, LOI CESAR ODCHIGUE		QuestID: 1980	
Address: NAIC, CAVITE		Gender: MALE	
Email: -		Age: 37	
Mobile: 09164141479		Birthdate: 12-14-1979	


MEDICAL HISTORY		VITAL SIGNS	
Significant Past Illness		Height	5ft6in
Asthma	YES	Weight	69kg
Tuberculosis	NO	BMI	16
Diabetes	NO	BP	120/80
High Blood Pressure	NO	PR	76
Heart Problem	NO	Visual Acuity Uncorrected	
Kidney Problem	NO	OD	20/20
Abdominal/Hernia	NO	OS	20/20
Joint/Back/Scoliosis	NO	Visual Acuity Corrected	
Psychiatric Problem	NO	OD	OS
Migraine/Headache	NO	Color Vision/Ishihara	-
Fainting/Seizure	NO	Hearing	NORMAL
Allergies	YES	Hospitalization	ASTHMA 1983
Cancer/Tumor	NO	Operation	-
Hepatitis	YES	Medication	-
STD	NO	Smoker/Sticks/Year	-
		Alcoholic Drinker	OCCASSIONAL
		Last Menstrual Period	-
		Others/Notes	ALLERGIC TO DUST, HEPATITIS A 2002

PHYSICAL EXAMINATION		
	NORMAL	
	YES/NO	FINDINGS
Skin	YES	
Neck	YES	
Chest/Breast/Lungs	YES	
Cardiac/Heart	YES	
Abdomen	YES	
Extremities	YES	
Others/Notes <small>(Scalp, Eyes, Ears, Nose, Sinuses, Mouth, Throat, Thyroid, Axilla, Back, Anus-rectum, G-U System, Inguinals, Genitals, others)</small>		
Patient Signature <small>I hereby authorize QPD and its physicians to furnish information that the company may need pertaining to my health status and do hereby release them from any and all legal responsibility by doing so, I certify that the medical history is true of my knowledge and any false statement will disqualify me from my employment benefits and claims.</small>		
Physician: FROILAN A. CANLAS, M.D. License: 82498		

HEADQUARTERS: Angeles Sports and Country Club, Zeppelin St. Hensonville, Angeles City Philippines
Branch: McArthur Hiway cor Salome Road & Victor St. Brgy. Balibago, Angeles City beside Robinsons Mall

Sample Physical Examination Form. This part is for the result of physical examination and it collected into one page, and then the user (employee) will print it or send it via email to the patient.

Figure 4: Medical Certificate Form


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 info@questphil.com.ph

HOME SERVICE
 09176260911
 09437278378

QUEST PHIL DIAGNOSTICS MEDICAL CERTIFICATE

Medical Examination Rating System (DOR1, Bureau of Licensing and Regulation; Administrative Code no. 85-A series 1990)

I certify that I have examined GUNDAYA, LOI CESAR ODCHIGUE and found applicant of OWENS ASIA with a classification of CLASS A - FIT TO WORK as of 2017-08-22.

Others/Notes: NORMAL

Physician: FROILAN A. CANLAS, M.D.
License: 82498

LABORATORY SCIENCES RESULT

HEMATOLOGY Complete Blood Count White Blood <u>7.3</u> x10 ⁹ /L 4.23-11.07 Hemoglobin <u>145</u> g/L M:137-175 Hematocrit <u>0.44</u> VF M:0.40-0.51 Differential Count Neutrophils <u>58</u> % 34-71 Lymphocytes <u>35</u> % 22-53 Monocytes <u>7</u> % 5-12 SEROLOGY HBsAg <u>N/A</u> Pregnancy Test <u>N/A</u> Others/Notes <u>NONE</u> DRUG TESTING Methamphetamine <u>NEGATIVE</u> Tetrahydrocannabinol <u>NEGATIVE</u> FECALYSIS Color <u>BROWN</u> Consistency <u>SOFT</u> Microscopic <u>NO INTESTINAL PARASITE</u> Findings <u>SEEN</u> Others/Notes <u>NONE</u>	CLINICAL MICROSCOPY Complete Urinalysis Physical/Chemical Color <u>YELLOW</u> Transparency <u>CLEAR</u> pH <u>6.0</u> Sp.Gravity <u>1.015</u> Protein <u>NEGATIVE</u> Glucose <u>NEGATIVE</u> Microscopic RBC <u>0-2</u> /hpf Normal Range 0-3 WBC <u>0-2</u> /hpf 0-5 E.Cells <u>FEW</u> M.Threads <u>N/A</u> Amorphous <u>N/A</u> Bacteria <u>N/A</u> CaOx <u>N/A</u> Others/Notes <u>NORMAL</u>
---	--

JAYANARA MAY S. CAPULONG, RMT
 Registered Medical Technologist

ALTHEA JOY S. PADIOS, RMT
 Quality Control

EMILIANO DELA CRUZ, MD
 Pathologist

RADIOLOGY REPORT

NO ABNORMAL DENSITIES SEEN IN BOTH LUNG PARENCHYMA. THE HEART IS NORMAL IN SIZE AND CONFIGURATION. AORTA IS UNREMARKABLE. THE DIAPHRAGMS, COSTOPHRENIC SULCI AND BONY THORAX ARE INTACT.

IMPRESSION:

NORMAL CHEST FINDINGS

HANTE MUNOZ, RXT
 Quality Assurance

SALVADOR RAMIREZ, MD, DPBR
 Radiologist

HEADQUARTERS: Angeles Sports and Country Club, Zeppelin St. Hensonville, Angeles City Philippines
Branch: McArthur Hiway cor Salome Road & Victor St. Brgy. Balibago, Angeles City beside Robinsons Mall

Sample Medical Certificate. This part is for the medical certificate of the patient, it is same with the other one. It displays all result into a page.

A. ACCOUNT CASHIER MODULE

Figure 5: Home (Make a Sale for Accounts)

Make a Sale

PATIENT INFORMATION

SELECT PACKAGE:

PACKAGE

Company Name: Address: Email Address:

Applied Position: Birth Date: Bill to:

First Name: Age: Referred By:

Middle Name: Gender: Comment:

This figure is where the cashier will make a sale by filling up the form. If the patient didn't have record yet then the user (employee) will proceed with this page which is inputting the personal information of the patient before to proceed to the purpose of the patient.

Figure 6: Choose Transaction Type

Cash Payment No.: 000000000000

Customer Name:	Puri, David John David
Company:	Quest
Age/Gender:	19/Male
Birthdate:	04-13-1998
Bill to:	COCOLIFE
Referred by:	COCOLIFE
ITEM/DESCRIPTION:	CBC(CBC,)
AMOUNT:	225.00
TOTAL:	225.00

ACCOUNT CASH

This is where the cashier will choose which transaction type for the payment. After inputting personal info of the patient, the page will proceed to the Transaction Type which you have two choices to choose what kind of transaction did the patient choose.

Figure 7: Account Transaction Type

The screenshot shows a web browser window with the URL `localhost/cashier/ForPrintAccount.php?id=0`. The application has a blue navigation bar with links: Home, Transaction List, HMO Record, Manage Tests Packages, Sales Report, and a LOGOUT button. The main content area has a light blue header with 'SR No.: 0000000000000'. Below this, customer details are listed: Customer Name: Puri, David John David; Company: Quest; Age/Gender: 19/Male; Birthdate: 04-13-1998; Bill to: COCOLIFE; Referred by: COCOLIFE. Transaction details include: ITEM/DESCRIPTION: CBC(CBC,); AMOUNT: 225.00; TOTAL: 225.00. A blue 'PRINT RECEIPT' button is located at the bottom right of the transaction details.

SR No.: 0000000000000	
Customer Name:	Puri, David John David
Company:	Quest
Age/Gender:	19/Male
Birthdate:	04-13-1998
Bill to:	COCOLIFE
Referred by:	COCOLIFE
ITEM/DESCRIPTION:	CBC(CBC,)
AMOUNT:	225.00
TOTAL:	225.00
PRINT RECEIPT	

This is where the cashier will print account receipt. After choosing what kind of transaction, it will proceed to the next page for collecting all data (information) to print it as a receipt.

Figure 8: Account Receipt

2017-10-21 11:22:51

QUEST PHIL DIAGNOSTICS
McArthur Hi-Way Cor. Salome Rd. Angeles City

MACABALI, MARC ANTHONY MUSNI
Co: **OWENS ASIA**
41/MALE
09-26-76

Referred by: **OWENS ASIA**
Cashier: **Hazel**
Comment:

RCPT:#0000000001818

Item Description	Price
OWENS ASIA [CBC, U/A, F/A, DT, X-RAY, Chest PA, PE, Vital Signs]	Php500.00

Receipt Total: **Php500.00**

online results, www.questphil.com.ph



Sample account receipt. Layout or appearance of receipt and then it will be printed.

Figure 9: HMO Record

Home Transaction List HMO Record Manage Tests Packages Sales Report LOGOUT						
Excel	PDF	Column visibility ▼	Search: <input type="text"/>			
Date/Time ↑↓	HMO ↑↓	ID ↑↓	Transaction Type ↑↓	Transaction No. ↑↓	Customer Name ↑↓	Company ↑↓
0000-00-00 00:00:00	INTELLICARE	7034	ACCOUNT	0000000007054	TEOPE,CHRISTINE JOY	CONVERGYS
2017-08-29 12:16:54	INTELLICARE	0	ACCOUNT	0000000000279	ALVAREZ,MARIA KRISTINE JOYCE E.	SUTHERLAND
2017-08-30 10:12:49	VALUCARE	0	ACCOUNT	0000000000302	LEGUA,OLIVEROS GONZALES	AAI WORLDWIDE LOGISTICS,INC
2017-08-31 09:15:29	AVEGA	0	ACCOUNT	0000000000322	VELASCO,THERESA NACINO	SPCF
2017-09-02 09:16:45	EASTWEST	4726	ACCOUNT	0000000004752	CORTEZ,ROEL T.	YOKOHAMA TIRE PHIL
2017-09-02 10:17:27	INTELLICARE	4862	ACCOUNT	0000000004888	LABUTAP,MARIA M.	IQOR
2017-09-02 10:19:56	INTELLICARE	4863	ACCOUNT	0000000004889	VICENCIO,CRIST CARL	

Showing 1 to 1,232 of 1,232 entries

This figure is where the cashier can view and update HMO record. In this part, you will see all the patient information that you inputted. You can also view them and update if there's a mistake or need to add on it.

Figure 10: Generate Sales

The screenshot shows a web browser window with the URL `localhost/cashier/SalesReport.php`. The page has a blue navigation bar with links: Home, Transaction List, HMO Record, Manage Tests Packages, Sales Report, and a LOGOUT button. The main content area is titled "Generate Sales Report" and contains two sections:

- Sales Details**: A light blue header section containing two date input fields labeled "Start Date" and "End Date", both with the placeholder text "YYYY-MM-DD HH:MM:SS". Below these fields is a green "Generate Report" button.
- End of the Day Report**: A light blue header section containing two date input fields labeled "Start Date" and "End Date", both with the placeholder text "YYYY-MM-DD HH:MM:SS". Below these fields is a green "Generate Report" button.

This figure is where the cashier can generate and print sales in excel format or in printable receipt format.

Figure 11: End of the day Report

2018-11-06 09:43:57

QUEST INFO SYSTEM

END OF THE DAY REPORT

2018-01-03 06:00:00 to 2018-01-03 18:00:00

SlsActvt	Sales	Return	Net
NonTxbl:	12129.00		12129.00
Subttl:	12129.00		12129.00
Ttl Act:	12129.00	0.00	12129.00
Sales Adjustments			
Net Sales Activity:			12129.00
Charge to Account:			(12129.00)
Gift Certificate used:			0.00
Gift Cards used:			0.00
Net Deposits used:			0.00
Payouts:			0.00
Total Available for Deposit:			0.00

RECEIPT COUNTS

Sales:	27
Returns:	0
Deposits:	0
Reversed:	0
Payouts:	0

Dollars

Paid In:	0.00
Paid Out:	0.00
Net:	0.00

Account

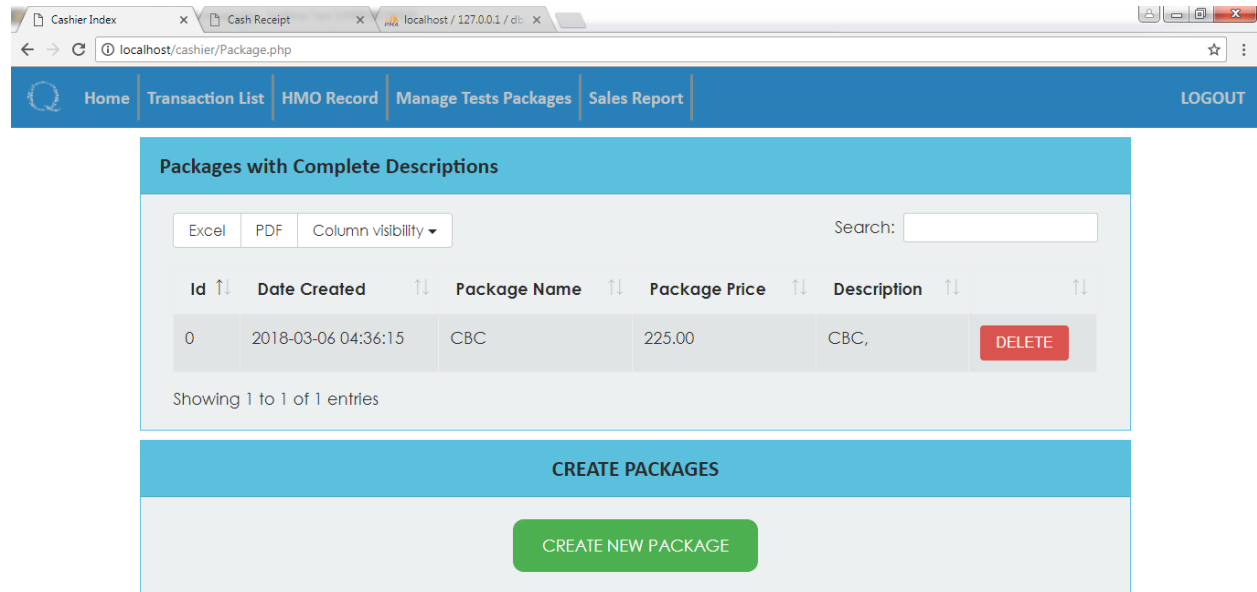
Paid In:	12129.00
Paid Out:	0.00
Net:	12129.00

Account Listing

Amount	Name	BillTo
290.00-	LAXAMANA,ALYSSA MYDEL LUMANLAN	-MY CLOUD PEOPLE
500.00-	ROSALES,MARK ROBERY ALVAREZ	-HAWAII FAM. BPO
750.00-	BURCE,RANDY BRIONES	-INDRODRILL
750.00-	PADIOS,JOCEL CALUBUA	-INDODRILL
300.00-	STA,CRUZ,ROMEL CANLAS	-EASTWEST
2583.00-	STA,CRUZ,ROMEL CANLAS	-EASTWEST
3186.00-	ABUZMAN,JEFFREY S	-EASTWEST
300.00-	VARGAS,TRISTAN RALPH GARCIA	-INTELCARE
300.00-	MERCADO,JHAYMIE S	-VALUCARE
300.00-	CALIDA,BEM AHRON	-INTELCARE
290.00-	DAVID,IVY VIBAR	-MY CLOUD PEOPLE
500.00-	DOMINGO,NOEL EMILIO C.	-CORNERSTONE BUSINESS SOLUTIONS
290.00-	DIAMLA,NORODIN CAGAANAN	-MY CLOUD PEOPLE, INC.
290.00-	WOODFAULK,MARIEZEL MENDOZA	-MY CLOUD PEOPLE, INC.
300.00-	CORTEZ,ROEL	-EASTWEST
300.00-	LAYUG,LIZA	-EASTWEST
300.00-	GARCIA,NICK	-INTELCARE
300.00-	RONQUILLO JR,MARIO C	-EASTWEST
300.00-	DELA CRUZ,GLORIA C	-EASTWEST
12129.00 TOTAL		19--ACCOUNTS

Sample end of the day report. In this figure, you will see the total of all transaction of specific day, it can print for backup purposes.

Figure 12: Package



This figure is where the cashier can create and delete package. The inside of every packages has a set of tests of a patient, it depends on what company.

Figure 13: Add Package

Create New Package LOGOUT

Tests List

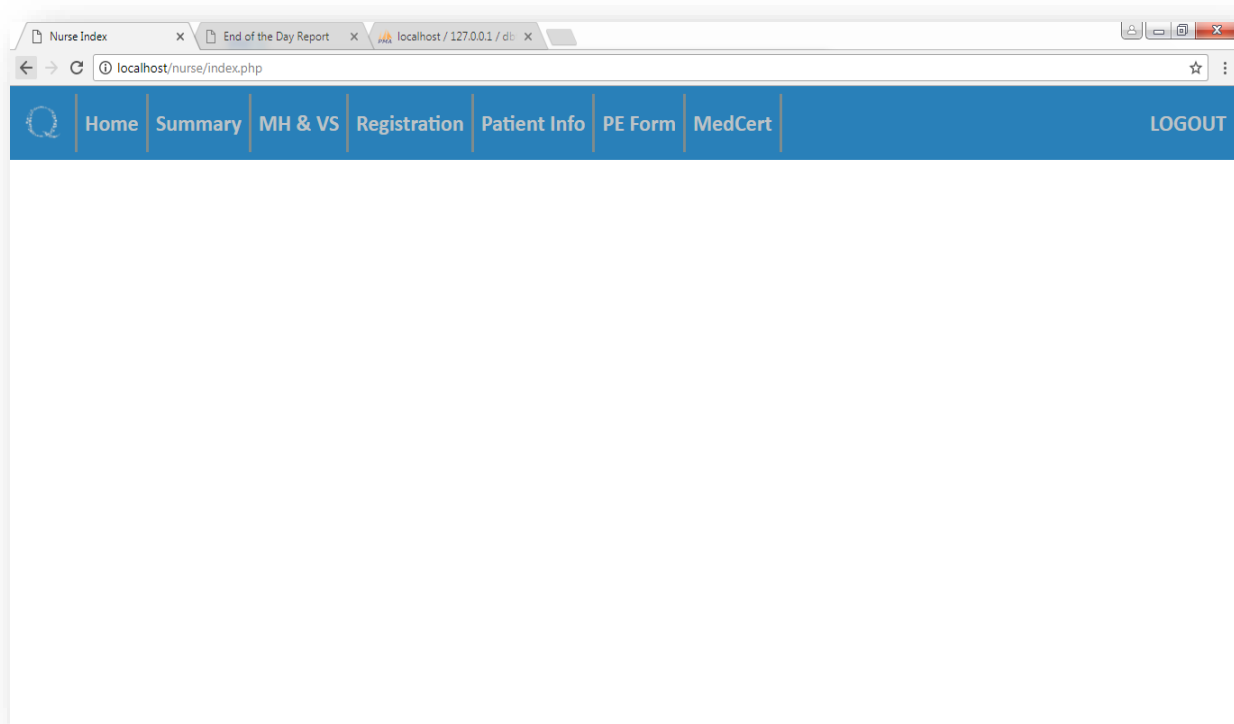
NOTE: Price indicated are HMO Prices

HEMATOLOGY <input type="checkbox"/> Complete Blood Count(P225)	IMAGING <input type="checkbox"/> X-RAY(P324) X-RAY Type: <input type="text"/> <input type="checkbox"/> ECG(P720) <input type="checkbox"/> UTZ WHOLE ABD(P2880)	CHEMISTRY <input type="checkbox"/> FBS(P144) <input type="checkbox"/> BUA(P378) <input type="checkbox"/> BUN(P171) <input type="checkbox"/> CREA(P360) <input type="checkbox"/> Lipid Profile(P747) <input type="checkbox"/> Sodium(P378) <input type="checkbox"/> Potassium(P378) <input type="checkbox"/> Chloride(P378) <input type="checkbox"/> SGPT(P198) <input type="checkbox"/> SGOT(P198) <input type="checkbox"/> HBA1C(P900)
MICROSCOPY <input type="checkbox"/> Urinalysis(P135) <input type="checkbox"/> Fecalalysis(P117) <input type="checkbox"/> Pregnancy Test(P315) <input type="checkbox"/> Drug Test(P300)-Walk-In	OTHER TESTS <input type="checkbox"/> Physical Examination(P200)-Walk-In <input type="checkbox"/> PAPSMEAR(P720)	
HEPATITIS MARKERS <input type="checkbox"/> HBsAg(P297) <input type="checkbox"/> anti-HAV(P117)		

This is where the cashier creates packages.

B. NURSE MODULE

Figure 14: Home



Index of the nurse module.

Figure 15: Register Patient

The screenshot displays a web browser window with the URL `localhost/nurse/Registration.php`. The application has a blue navigation bar with the following menu items: Home, Summary, MH & VS, Registration (active), Patient Info, PE Form, MedCert, and a LOGOUT button. The main content area is titled "PATIENT INFORMATION" and contains a registration form with the following fields:

PATIENT INFORMATION	
Company Name:	Birth Date:
<input type="text"/>	<input type="text" value="MM-DD-YYYY"/>
Applied Position:	Age:
<input type="text"/>	<input type="text"/>
First Name:	Gender:
<input type="text"/>	<input type="text"/>
Middle Name:	Contact No.:
<input type="text"/>	<input type="text" value="-"/>
Last Name:	Email Address:
<input type="text"/>	<input type="text" value="-"/>
Address:	Comment:
<input type="text" value="-"/>	<input type="text"/>

This figure is where the nurse can register a patient.

Figure 16: View/Add Record

ID	Last Update	Company Name	Patient Name	Action
1	2018-02-28 05:48:51	PENTHOUSE	Abad,Harold Catacutan	VIEW RECORD ADD RECORD
2	2018-02-28 05:53:20	PENTHOUSE	Angeles,Jane Alcantara	VIEW RECORD ADD RECORD
3	2018-02-28 05:54:45	PENTHOUSE	Aquino,Russell Sales	VIEW RECORD ADD RECORD
4	2018-02-28 05:55:18	PENTHOUSE	Baldoz,Edgardo Garcia	VIEW RECORD ADD RECORD
5	2018-03-01 07:32:51	PENTHOUSE	Bamba,Christine Hazel Torres	VIEW RECORD ADD RECORD
6	2018-03-01 02:12:10	PENTHOUSE	Bedania,Bonie Macapagal	VIEW RECORD ADD RECORD
7	0000-00-00 00:00:00	PENTHOUSE	Besario,Maricar Saranillo	VIEW RECORD ADD RECORD
8	2018-02-28 05:58:51	PENTHOUSE	Bordon,Genell Cuenca	VIEW RECORD ADD RECORD

The list of patients you want to view or add record.

Figure 17: Add Record

The screenshot displays a web application for adding patient records. The top navigation bar includes links for Home, Summary, MH & VS, Registration, Patient Info, PE Form, MedCert, and a LOGOUT button. The main content area is divided into two primary sections: 'PATIENT INFORMATION' and 'Add Medical History' / 'Add Vital Signs'.

PATIENT INFORMATION

SR No.:	Name:	Company Name:	Gender:
1	ABAD, HAROLD CATA CUTAN	PENTHOUSE	MALE

Add Medical History

SIGNIFICANT PAST ILLNESS	YES	NO
Asthma	<input type="checkbox"/>	<input type="checkbox"/>
Tuberculosis	<input type="checkbox"/>	<input type="checkbox"/>
Diabetes Mellitus	<input type="checkbox"/>	<input type="checkbox"/>
High Blood Pressure	<input type="checkbox"/>	<input type="checkbox"/>
Heart Problem	<input type="checkbox"/>	<input type="checkbox"/>
Kidney Problem	<input type="checkbox"/>	<input type="checkbox"/>
Abdominal/Hernia	<input type="checkbox"/>	<input type="checkbox"/>

Add Vital Signs

Height:	<input type="text"/>	Weight:	<input type="text"/>	BMI:	<input type="text"/>
BP:	<input type="text"/>	PR:	<input type="text"/>	RR:	<input type="text"/>
VISUAL ACUITY					
Uncorrected	OD:	<input type="text"/>	OS:	<input type="text"/>	
Corrected	OD:	<input type="text"/>	OS:	<input type="text"/>	
Ishihara Test:	<input type="text"/>				
Hearing:	<input type="text"/>				

This figure is where the nurse can insert Medical History, Vital Signs and PE results of a patient.

Figure 18:Update Medical History / Vital Signs / PE

The figure consists of two screenshots of a web application interface. Both screenshots show a navigation bar at the top with the following tabs: Home, Summary, MH & VS, Registration, Patient Info, PE Form, MedCert, and a LOGOUT button. The browser address bar shows the URL: localhost/nurse/MedHisEDIT.php?id=1 for the top screenshot and localhost/nurse/VitalSignEDIT.php?id=1 for the bottom screenshot.

Top Screenshot: Update Medical History

PATIENT INFORMATION

SR No.:	Name:	Company Name:
1	Abad, Harold Catacutan	PENTHOUSE

Medical History

Significant Past Illness	YES / NO
Asthma:	<input type="text" value="NO"/>
Tuberculosis:	<input type="text" value="NO"/>
Diabetes:	<input type="text" value="NO"/>
High Blood Pressure:	<input type="text" value="NO"/>
Heart Problem:	<input type="text" value="NO"/>
Kidney Problem:	<input type="text" value="NO"/>

Bottom Screenshot: Update Vital Signs

PATIENT INFORMATION

SR No.:	Name:	Company Name:
1	Abad, Harold Catacutan	PENTHOUSE

Vital Signs

Height:	<input type="text" value="5FT4IN"/>	Weight:	<input type="text" value="76.4KG"/>	BMI:	<input type="text" value="28.91/OW"/>
BP:	<input type="text" value="100/70"/>	PR:	<input type="text" value="90"/>	RR:	<input type="text" value="20"/>

VISUAL ACUITY

Uncorrected	OD:	<input type="text" value="20/20"/>	OS:	<input type="text" value="20/20"/>
Corrected	OD:	<input type="text"/>	OS:	<input type="text"/>

Ishihara Test:

Hearing:

These figures are where the nurse can update records.

Figure 19: View Patient Record

The figure displays two screenshots of the Quest Phil Diagnostics web application interface. Both screenshots show a navigation bar with the following tabs: Home, Summary, MH & VS, Registration, Patient Info, PE Form, MedCert, and a LOGOUT button. The browser address bar shows the URL: localhost/nurse/PEExamEDIT.php?id=1.

Top Screenshot: Edit Physical Examination

PATIENT INFORMATION

SR No.:	Name:	Company Name:
	ABAD,HAROLD CATA CUTAN	PENTHOUSE

PATIENT PACKAGE

Package:	Description:	Transaction:

Physical Examination

NOTE: Please reselect all the dropdown boxes for updates.

NORMAL

YES / NO

Bottom Screenshot: Medical History & Vital

PATIENT INFORMATION

SR No.:	Name:	Company Name:
1	Abad,Harold Catacutan	PENTHOUSE

Medical History

Significant Past Illness	YES / NO
Asthma:	NO
Tuberculosis:	NO
Diabetes:	NO
High Blood Pressure:	NO
Heart Problem:	NO
Kidney Problem:	NO

To view patient's record

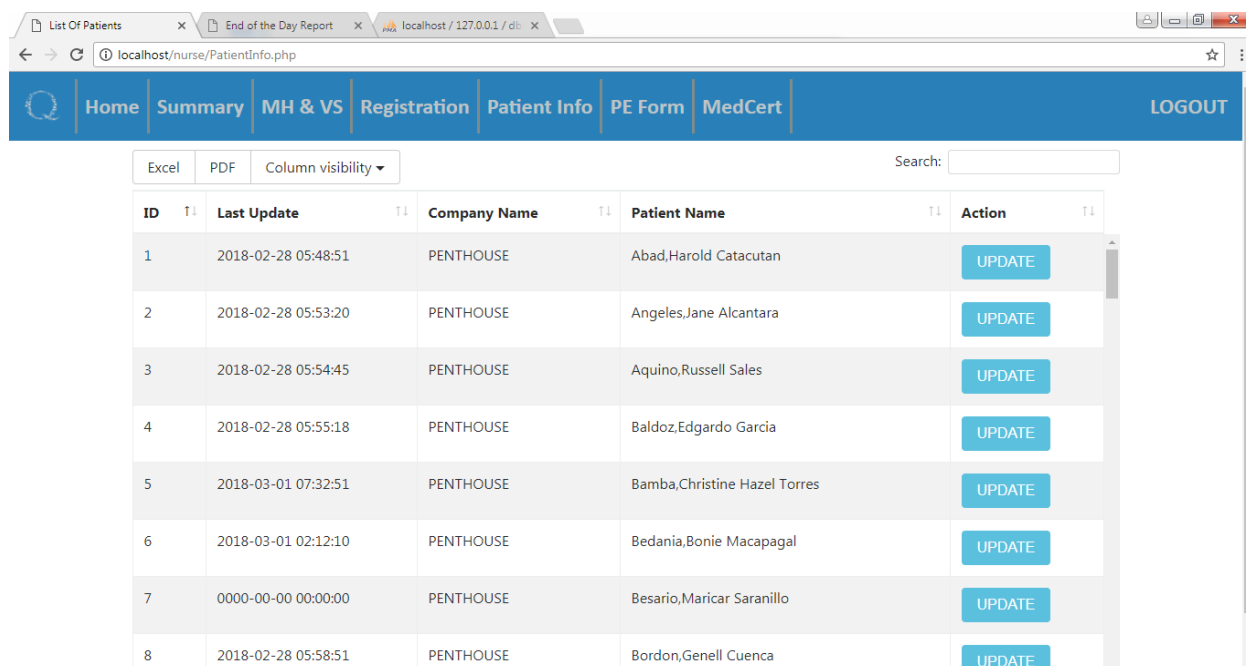
Figure 20: Patient Summary

Personal Information

Company Name:	Birthdate:	LOE:
PENTHOUSE	7/27/1988	AN:
Applied Position:	Age:	AC:
SOUS CHEF	29	Senior ID:
Name:	Gender:	Comment:
ABAD,HAROLD CATA CUTAN	MALE	
Address:	Contact No.:	
101 ABRIGADOS ST., BRGY. PATLING, CAPAS, TARLAS	0943-496-3719	
	Email Address:	

To view patient summary records.

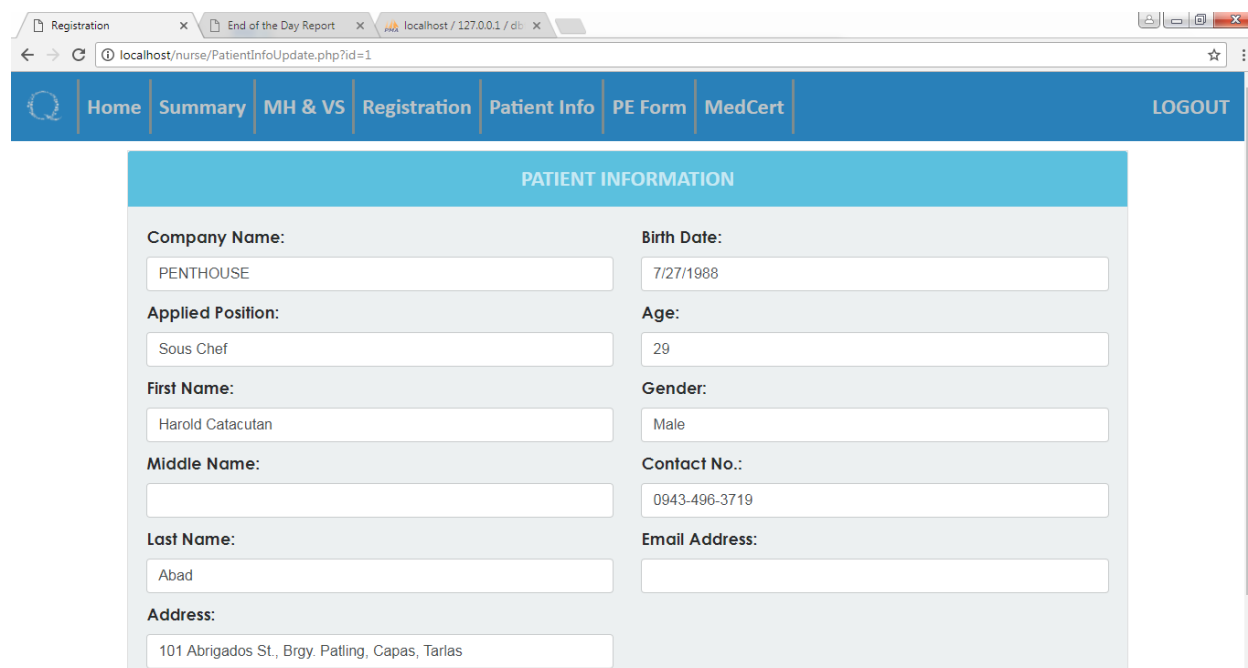
Figure 21: Patient Info List



ID	Last Update	Company Name	Patient Name	Action
1	2018-02-28 05:48:51	PENTHOUSE	Abad,Harold Catacutan	UPDATE
2	2018-02-28 05:53:20	PENTHOUSE	Angeles,Jane Alcantara	UPDATE
3	2018-02-28 05:54:45	PENTHOUSE	Aquino,Russell Sales	UPDATE
4	2018-02-28 05:55:18	PENTHOUSE	Baldez,Edgardo Garcia	UPDATE
5	2018-03-01 07:32:51	PENTHOUSE	Bamba,Christine Hazel Torres	UPDATE
6	2018-03-01 02:12:10	PENTHOUSE	Bedania,Bonie Macapagal	UPDATE
7	0000-00-00 00:00:00	PENTHOUSE	Besario,Maricar Saranillo	UPDATE
8	2018-02-28 05:58:51	PENTHOUSE	Bordon,Genell Cuenca	UPDATE

The list of patients you want to update record.

Figure 22: Update Patient Info



Registration | End of the Day Report | localhost / 127.0.0.1 / di... X

localhost/nurse/PatientInfoUpdate.php?id=1

Home | Summary | MH & VS | Registration | Patient Info | PE Form | MedCert | LOGOUT

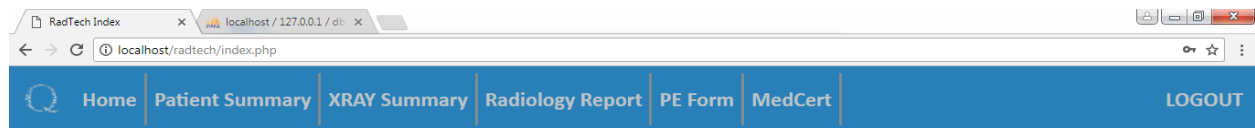
PATIENT INFORMATION

Company Name:	Birth Date:
<input type="text" value="PENTHOUSE"/>	<input type="text" value="7/27/1988"/>
Applied Position:	Age:
<input type="text" value="Sous Chef"/>	<input type="text" value="29"/>
First Name:	Gender:
<input type="text" value="Harold Catacutan"/>	<input type="text" value="Male"/>
Middle Name:	Contact No.:
<input type="text"/>	<input type="text" value="0943-496-3719"/>
Last Name:	Email Address:
<input type="text" value="Abad"/>	<input type="text"/>
Address:	
<input type="text" value="101 Abrigados St., Brgy. Patling, Capas, Tarlas"/>	

This is where the nurse can update the patient's record.

C. IMAGING MODULE

Figure 23: Home



Index of imaging module.

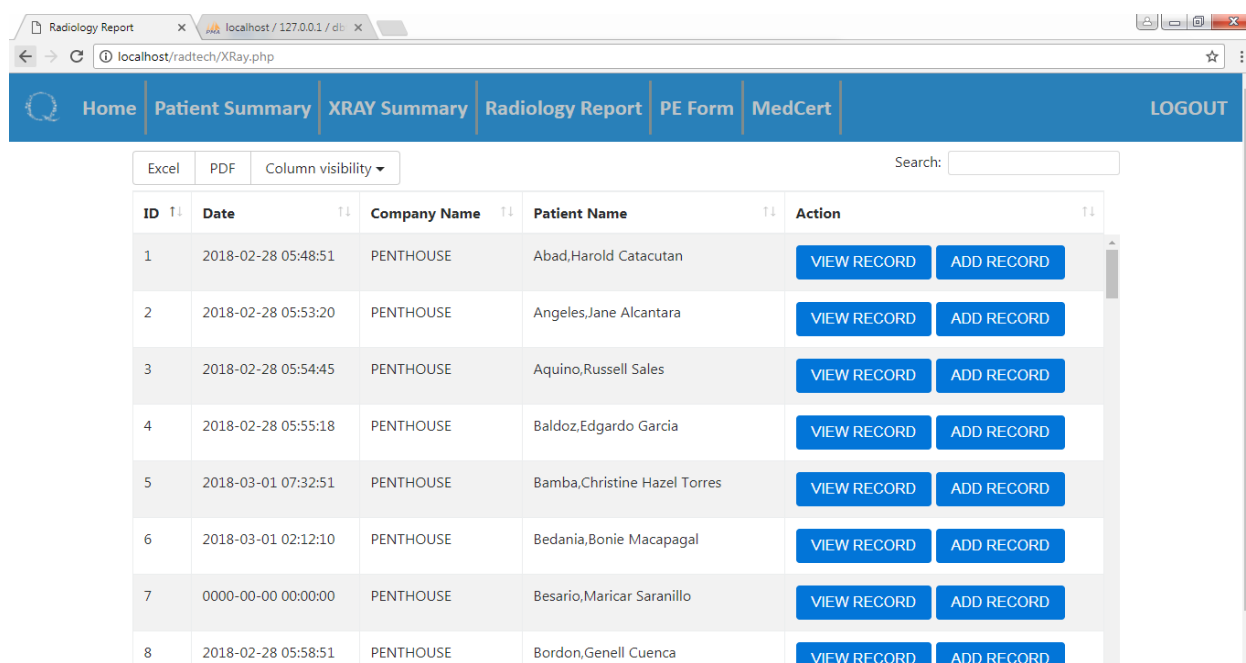
Figure 24: X-ray Summary

ID	Date	Company Name	Patient Name	Comment	Impression	Radiologist	Quality Assurance
1	2018-02-27 01:08:26	PENTHOUSE	Abad, Harold Catacutan	No abnormal densities seen in both lung parenchyma. The heart is normal in size and configuration. Aorta is unremarkable. The diaphragms, costophrenic sulci and bony thorax are intact.	NORMAL CHEST FINDINGS	Salvador Ramirez, MD, DPBR	Hante Munoz, RXT

Showing 1 to 59 of 59 entries

To view patient x-ray summary record.

Figure 25: View/Add Radiology Record List

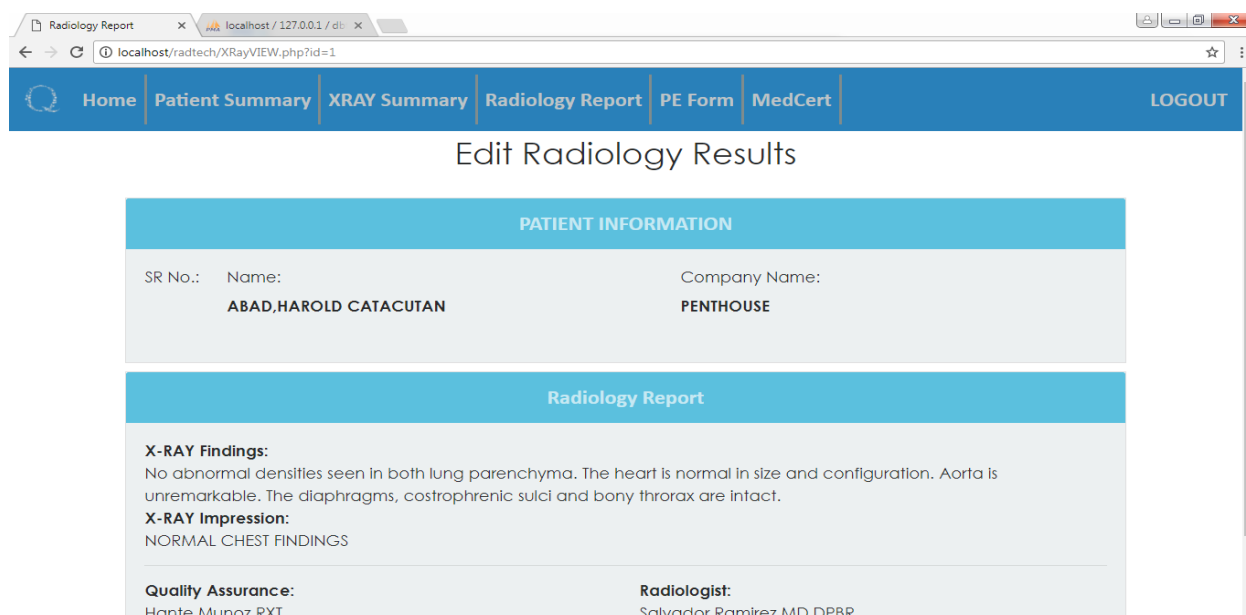


The screenshot shows a web browser window with the URL 'localhost/radtech/XRay.php'. The application has a blue navigation bar with links: Home, Patient Summary, XRAY Summary, Radiology Report (active), PE Form, MedCert, and a LOGOUT button. Below the navigation bar, there are tabs for 'Excel', 'PDF', and 'Column visibility'. A search bar is located on the right. The main content is a table with 5 columns: ID, Date, Company Name, Patient Name, and Action. The table contains 8 rows of patient data. Each row has two buttons in the Action column: 'VIEW RECORD' and 'ADD RECORD'.

ID	Date	Company Name	Patient Name	Action
1	2018-02-28 05:48:51	PENTHOUSE	Abad,Harold Catacutan	VIEW RECORD ADD RECORD
2	2018-02-28 05:53:20	PENTHOUSE	Angeles,Jane Alcantara	VIEW RECORD ADD RECORD
3	2018-02-28 05:54:45	PENTHOUSE	Aquino,Russell Sales	VIEW RECORD ADD RECORD
4	2018-02-28 05:55:18	PENTHOUSE	Baldoz,Edgardo Garcia	VIEW RECORD ADD RECORD
5	2018-03-01 07:32:51	PENTHOUSE	Bamba,Christine Hazel Torres	VIEW RECORD ADD RECORD
6	2018-03-01 02:12:10	PENTHOUSE	Bedania,Bonie Macapagal	VIEW RECORD ADD RECORD
7	0000-00-00 00:00:00	PENTHOUSE	Besario,Maricar Saranillo	VIEW RECORD ADD RECORD
8	2018-02-28 05:58:51	PENTHOUSE	Bordon,Genell Cuenca	VIEW RECORD ADD RECORD

The list of patients you want to view or add radiology result.

Figure 26: View Radiology Report



PATIENT INFORMATION

SR No.:	Name:	Company Name:
	ABAD, HAROLD CATA CUTAN	PENTHOUSE

Radiology Report

X-RAY Findings:
No abnormal densities seen in both lung parenchyma. The heart is normal in size and configuration. Aorta is unremarkable. The diaphragms, costophrenic sulci and bony thorax are intact.

X-RAY Impression:
NORMAL CHEST FINDINGS

Quality Assurance: Hante Munoz, RXT	Radiologist: Salvador Ramirez, MD, DPBR
---	---

To view patient radiology report.

Figure 27: Add Radiology Report

The screenshot shows a web browser window with the URL `localhost/radtech/XRayADD1.php?id=1`. The application has a blue navigation bar with the following links: Home, Patient Summary, XRAY Summary, Radiology Report (active), PE Form, MedCert, and a LOGOUT button. The main content area is titled "Add Radiology Results" and contains two main sections:

- PATIENT INFORMATION**: A table with the following data:

SR No.:	Name:	Company Name:	Gender:
1	ABAD,HAROLD CATA CUTAN	PENTHOUSE	MALE
- Radiology Report**: A section with two text input fields:
 - X-RAY Findings:** A large text area with the placeholder "Findings".
 - X-RAY Impression:** A text area with the placeholder "Impression".
- Normal Templates**: A section with a "NORMAL FINDINGS TEMPLATE" and a "DOC RAMIREZ" signature line. Below the signature line, there is a sample text: "No abnormal densities seen in both lung parenchyma. The heart is normal in size and configuration. Aorta is".

This figure is where you can insert patient's radiology report.

Figure 28: Update Radiology Report

The screenshot shows a web browser window with the URL `localhost/radtech/XRayEDIT.php?id=1`. The application has a blue navigation bar with the following menu items: Home, Patient Summary, XRAY Summary, Radiology Report (active), PE Form, MedCert, and a LOGOUT button. The main content area is titled "Edit Radiology Results" and is divided into two main sections: "PATIENT INFORMATION" and "Radiology Report".

PATIENT INFORMATION

SR No.:	Name:	Company Name:
1	ABAD,HAROLD CATA CUTAN	PENTHOUSE

Radiology Report

X-RAY Findings:

No abnormal densities seen in both lung parenchyma. The heart is normal in size and configuration. Aorta is unremarkable. The diaphragms, costophrenic sulci and bony thorax are intact.

X-RAY Impression:

NORMAL CHEST FINDINGS

Normal Templates

NORMAL FINDINGS TEMPLATE

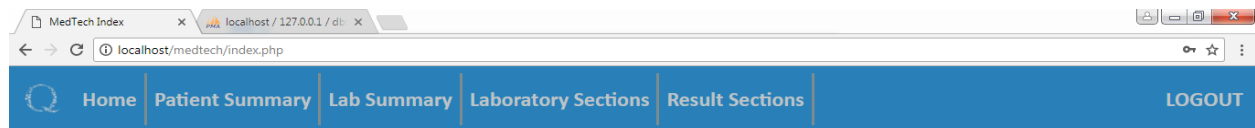
DOC RAMIREZ

No abnormal densities seen in both lung parenchyma. The heart is normal in size and configuration. Aorta is

This is where you can update patient's radiology report.

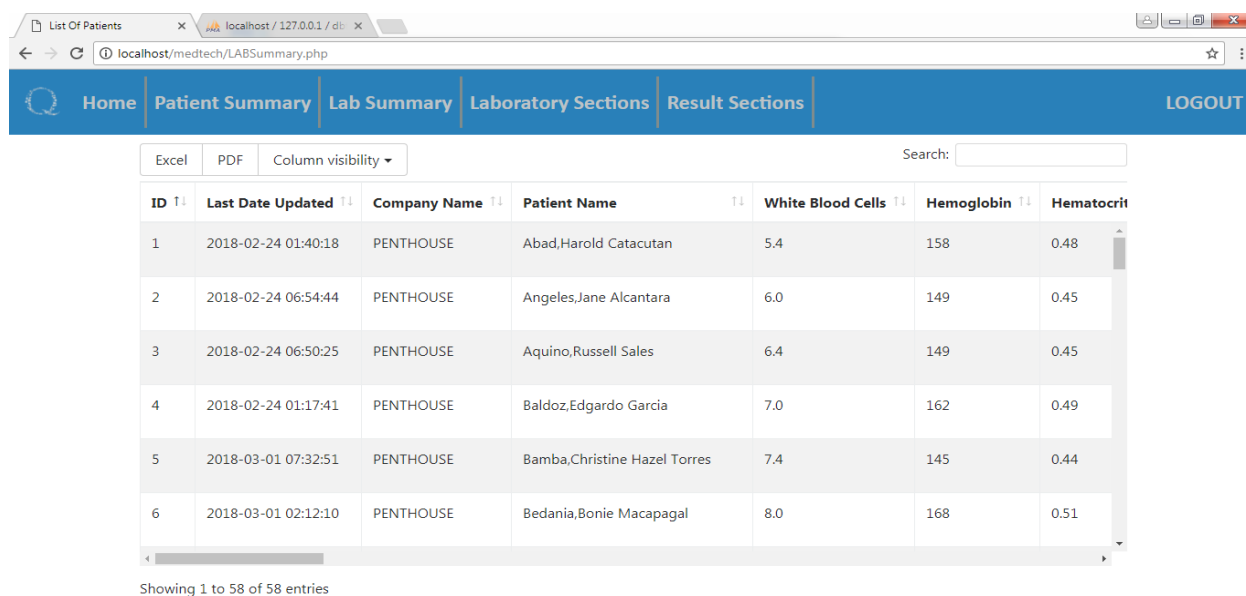
D. LABORATORY MODULE

Figure 29: Home



Index of laboratory module.

Figure 30: Laboratory Summary

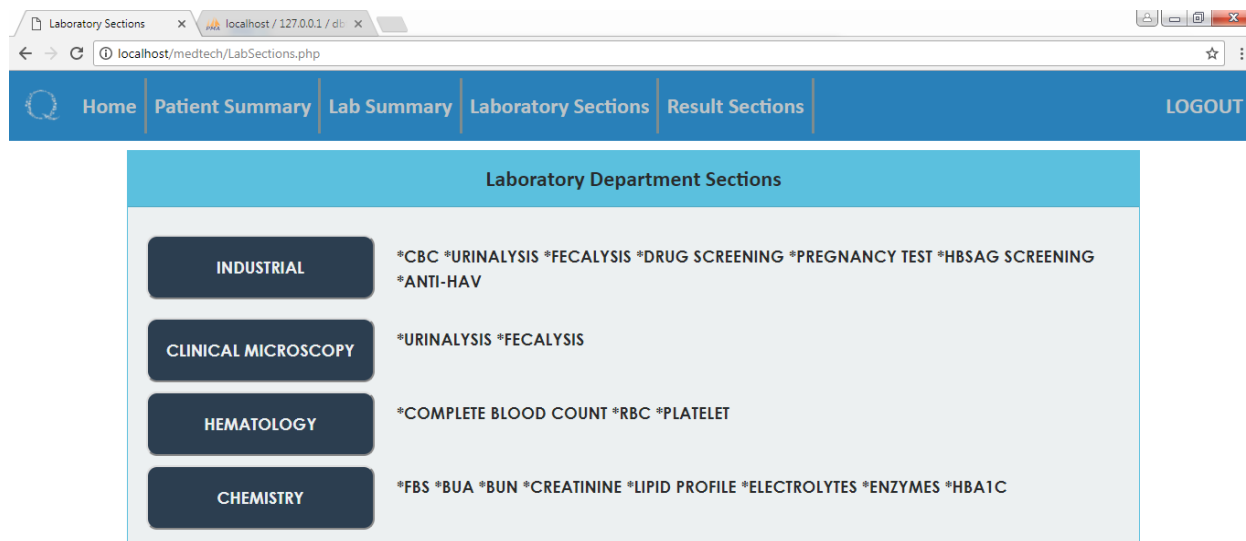


ID ↑↓	Last Date Updated ↑↓	Company Name ↑↓	Patient Name ↑↓	White Blood Cells ↑↓	Hemoglobin ↑↓	Hematocrit
1	2018-02-24 01:40:18	PENTHOUSE	Abad, Harold Catacutan	5.4	158	0.48
2	2018-02-24 06:54:44	PENTHOUSE	Angeles, Jane Alcantara	6.0	149	0.45
3	2018-02-24 06:50:25	PENTHOUSE	Aquino, Russell Sales	6.4	149	0.45
4	2018-02-24 01:17:41	PENTHOUSE	Baldez, Edgardo Garcia	7.0	162	0.49
5	2018-03-01 07:32:51	PENTHOUSE	Bamba, Christine Hazel Torres	7.4	145	0.44
6	2018-03-01 02:12:10	PENTHOUSE	Bedania, Bonie Macapagal	8.0	168	0.51

Showing 1 to 58 of 58 entries

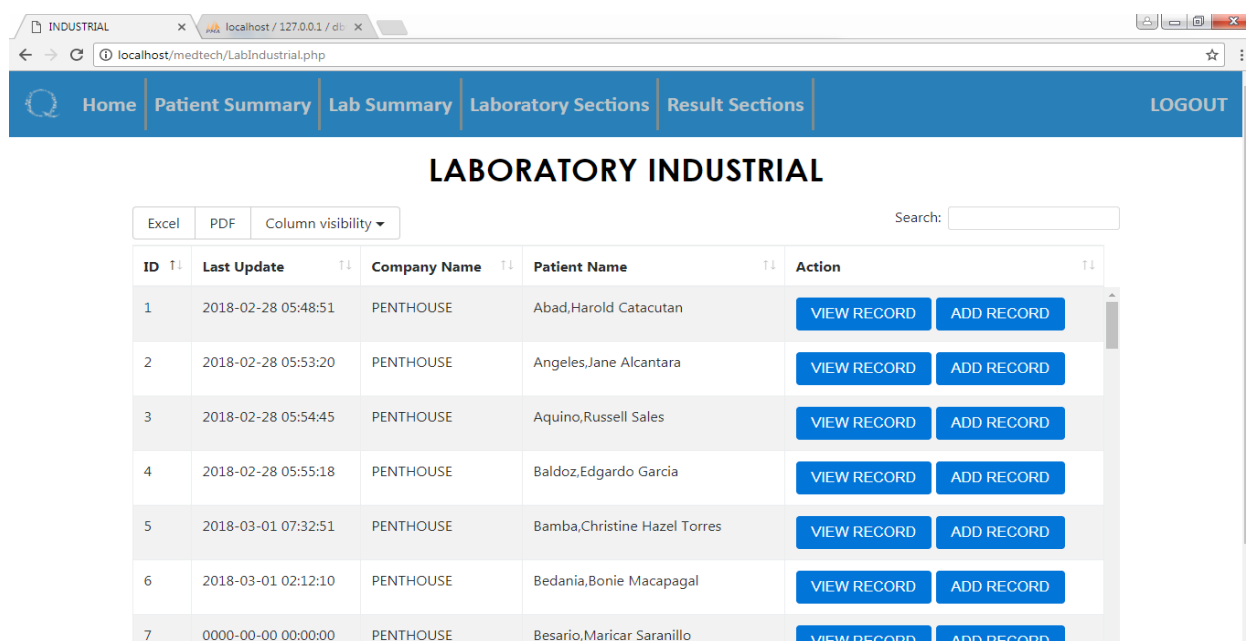
This is where the medical technologist can view the patient's laboratory summary.

Figure 31: Laboratory Sections



This is where the medical technologist will choose which lab section for the inserting of results.

Figure 32: Laboratory Industrial



ID	Last Update	Company Name	Patient Name	Action
1	2018-02-28 05:48:51	PENTHOUSE	Abad,Harold Catacutan	VIEW RECORD ADD RECORD
2	2018-02-28 05:53:20	PENTHOUSE	Angeles,Jane Alcantara	VIEW RECORD ADD RECORD
3	2018-02-28 05:54:45	PENTHOUSE	Aquino,Russell Sales	VIEW RECORD ADD RECORD
4	2018-02-28 05:55:18	PENTHOUSE	Baldoz,Edgardo Garcia	VIEW RECORD ADD RECORD
5	2018-03-01 07:32:51	PENTHOUSE	Bamba,Christine Hazel Torres	VIEW RECORD ADD RECORD
6	2018-03-01 02:12:10	PENTHOUSE	Bedania,Bonie Macapagal	VIEW RECORD ADD RECORD
7	0000-00-00 00:00:00	PENTHOUSE	Besario,Maricar Saranillo	VIEW RECORD ADD RECORD

The list of patients you want to view or add laboratory industrial results.

Figure 33: View Laboratory Record

The screenshot displays a web application for viewing laboratory results. The browser address bar shows the URL: localhost/medtech/LabIndustrialVIEW.php?id=1. The application has a navigation bar with links: Home, Patient Summary, Lab Summary, Laboratory Sections, Result Sections, and a LOGOUT button. The main content area is titled 'View Laboratory Results' and contains three sections:

- PATIENT INFORMATION**: Displays SR No., Name (ABAD, HAROLD CATA CUTAN), and Company Name (PENTHOUSE).
- PATIENT PACKAGE**: Displays Package, Description, and Transaction details.
- LABORATORY SCIENCES RESULTS**:
 - HEMATOLOGY Complete Blood Count**: Shows Normal Range.
 - Differential Count**:

Test	Value	Unit	Normal Range
White Blood Cells	5.4	x10 ⁹ /L	4.23-11.07
Hemoglobin	158	g/L	M:137-175
Hematocrit	0.48	VF	M:0.40-0.51
Neutrophils	50	%	34-71
Lymphocytes	45	%	22-53
Monocytes	5	%	5-12
 - OTHERS/NOTES**: NORMAL
 - CLINICAL MICROSCOPY Complete Urinalysis**: Shows Physical/Chemical and Microscopic results with Normal Range.

This is where the medical technologist can view the patient's industrial laboratory results.

Figure 34: Add Laboratory Record

PATIENT INFORMATION

SR No.: Name: Company Name: Gender:

ABAD, HAROLD CATA CUTAN PENTHOUSE MALE

PATIENT PACKAGE

Package: Description: Transaction:

LABORATORY SCIENCES RESULTS

HEMATOLOGY
Complete Blood Count **Normal Range**

White Blood Cells : x10⁹/L 4.23-11.07

Hemoglobin : g/L N/A

Hematocrit : VF N/A

Differential Count

Neutrophils : % 34-71

Lymphocytes : % 22-53

Monocytes : % 5-12

OTHERS/NOTES :

CLINICAL MICROSCOPY
Complete Urinalysis **Microscopic** **Normal Range**

Physical/Chemical

This is where the medical technologist can insert the patient's industrial laboratory results.

Figure 35: Update Record

PATIENT INFORMATION

SR No.: Name: Company Name: Gender:

ABAD, HAROLD CATA CUTAN PENTHOUSE MALE

PATIENT PACKAGE

Package: Description: Transaction:

LABORATORY SCIENCES RESULTS

HEMATOLOGY

Complete Blood Count Normal Range

Complete Urinalysis

Physical/Chemical **Microscopic** **Normal Range**

Color : YELLOW RBC : 0-2 /hpf 0-3

Transparency : HAZY WBC : 0-2 /hpf 0-5

pH : 6.5 E.Cells: Rare

Sp. Gravity : 1.010 M.Threads: NONE

Protein : Negative Bacteria: NONE

Glucose : Negative Amorphous: NONE

OTHERS/NOTES : NORMAL CaOx: NONE

DRUG SCREENING

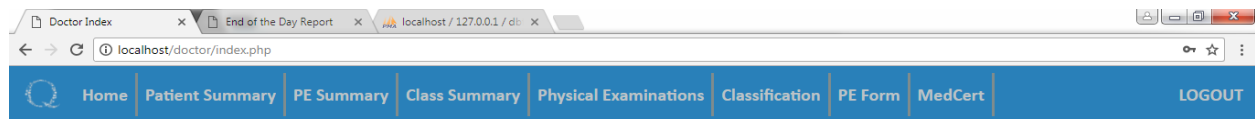
METHAMPHETAMINE: NEGATIVE

TETRAHYDROCANNABINOL: NEGATIVE

This is where the medical technologist can update the patient's industrial laboratory results.

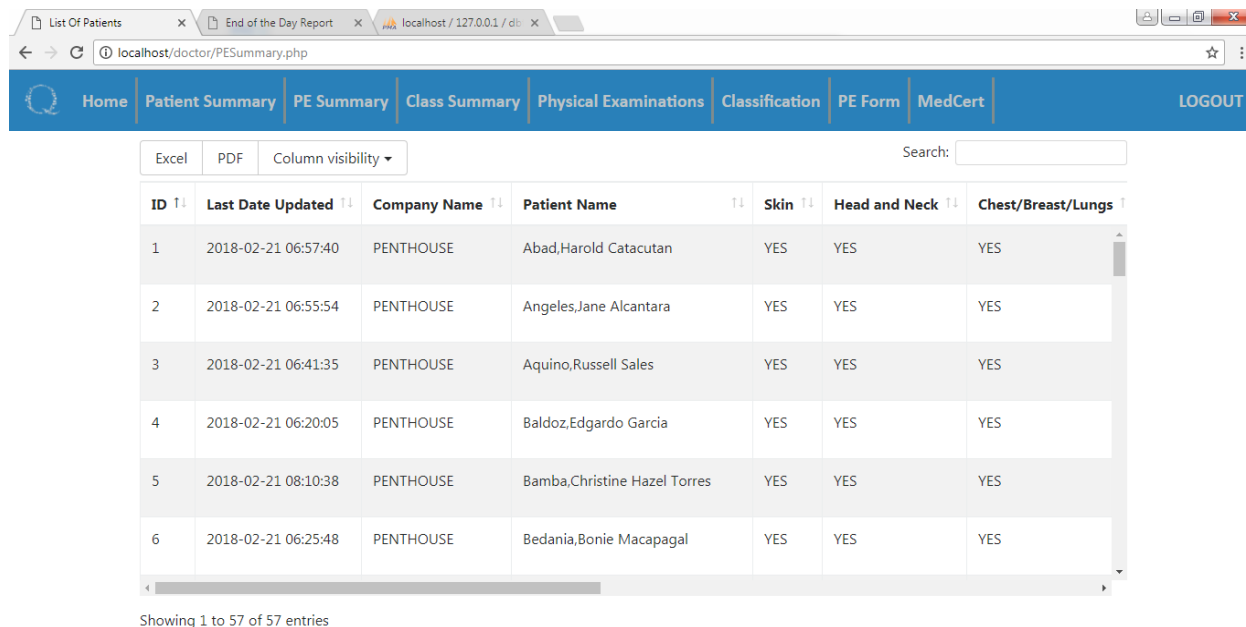
E. PE MODULE

Figure 36: Home



Index of PE Module.

Figure 37: PE Summary



ID	Last Date Updated	Company Name	Patient Name	Skin	Head and Neck	Chest/Breast/Lungs
1	2018-02-21 06:57:40	PENTHOUSE	Abad,Harold Catacutan	YES	YES	YES
2	2018-02-21 06:55:54	PENTHOUSE	Angeles,Jane Alcantara	YES	YES	YES
3	2018-02-21 06:41:35	PENTHOUSE	Aquino,Russell Sales	YES	YES	YES
4	2018-02-21 06:20:05	PENTHOUSE	Baldez,Edgardo Garcia	YES	YES	YES
5	2018-02-21 08:10:38	PENTHOUSE	Bamba,Christine Hazel Torres	YES	YES	YES
6	2018-02-21 06:25:48	PENTHOUSE	Bedania,Bonie Macapagal	YES	YES	YES

Showing 1 to 57 of 57 entries

This is where the doctor can view patient's pe summary.

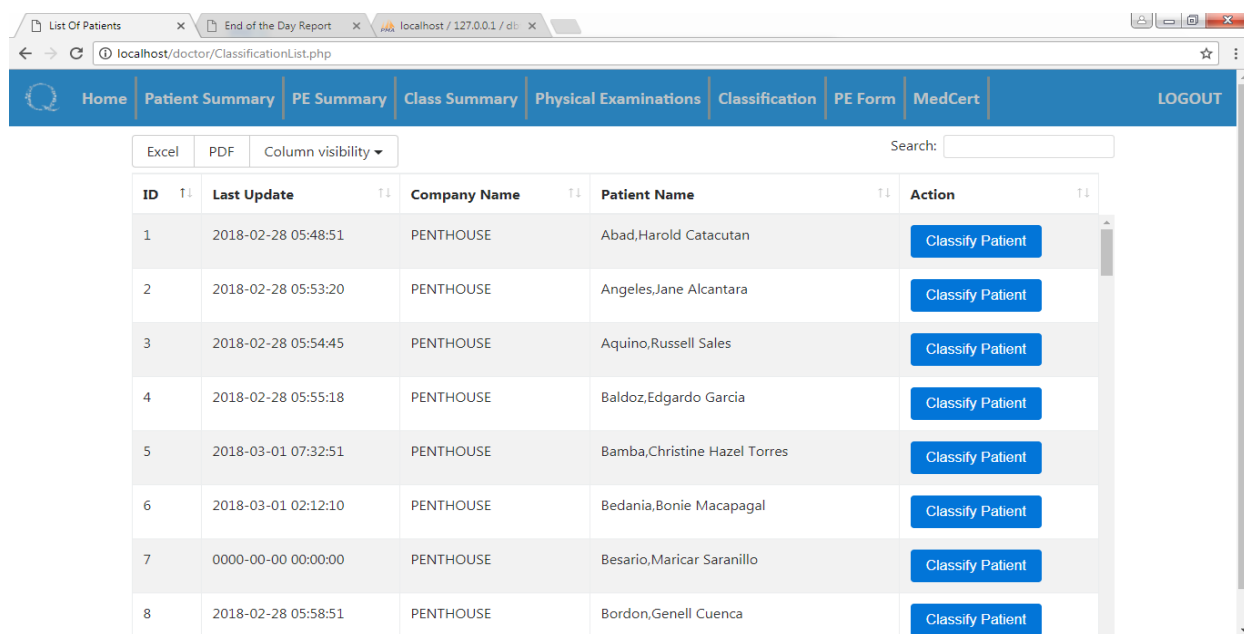
Figure 38: Class Summary

ID	Date	Company Name	Patient Name	Class
1	2018-02-27	PENTHOUSE	Abad, Harold Catacutan	CLASS A - Physically Fit
2	2018-02-27	PENTHOUSE	Angeles, Jane Alcantara	CLASS A - Physically Fit
3	2018-02-27	PENTHOUSE	Aquino, Russell Sales	CLASS A - Physically Fit
4	2018-02-28	PENTHOUSE	Baldez, Edgardo Garcia	Pending - These are cases that are equivocal as to the classification
5	2018-03-01	PENTHOUSE	Bamba, Christine Hazel Torres	CLASS B - Physically Fit but with minor condition curable within 6 months
6	2018-02-28	PENTHOUSE	Bedania, Bonie Macapagal	CLASS B - Physically Fit but with minor condition curable within 6 months
8	2018-02-28	PENTHOUSE	Bordon, Genell Cuenca	Pending - These are cases that are equivocal as to the classification
9	2018-02-27	PENTHOUSE	Calosa, John Justine Celebre	CLASS A - Physically Fit

Showing 1 to 59 of 59 entries

This is where the doctor can view patient's class summary.

Figure 39: Classification List



ID	Last Update	Company Name	Patient Name	Action
1	2018-02-28 05:48:51	PENTHOUSE	Abad,Harold Catacutan	Classify Patient
2	2018-02-28 05:53:20	PENTHOUSE	Angeles,Jane Alcantara	Classify Patient
3	2018-02-28 05:54:45	PENTHOUSE	Aquino,Russell Sales	Classify Patient
4	2018-02-28 05:55:18	PENTHOUSE	Baldez,Edgardo Garcia	Classify Patient
5	2018-03-01 07:32:51	PENTHOUSE	Bamba,Christine Hazel Torres	Classify Patient
6	2018-03-01 02:12:10	PENTHOUSE	Bedania,Bonie Macapagal	Classify Patient
7	0000-00-00 00:00:00	PENTHOUSE	Besario,Maricar Saranillo	Classify Patient
8	2018-02-28 05:58:51	PENTHOUSE	Bordon,Genell Cuenca	Classify Patient

The list of patients for classification.

Figure 40: Classify Patients

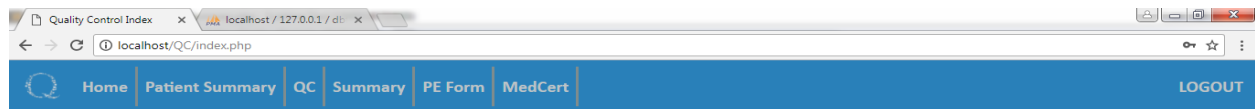
The screenshot displays a web application interface for classifying patients. The browser tabs at the top include 'List Of Patients', 'Patient Records Summary', 'End of the Day Report', and the current page 'localhost / 127.0.0.1 / doctor/ClassificationInput.php?id=1'. The main content area is divided into several sections:

- Comment:** No abnormal densities seen in both lung parenchyma. The heart is normal in size and configuration. Aorta is unremarkable. The diaphragms, costophrenic sulci and bony thorax are intact.
- Impressions:** NORMAL CHEST FINDINGS
- Physician Information:** Hante Munoz, RXT (Quality Assurance) and Salvador Ramirez, MD, DPBR (Radiologist).
- Classification Section:** A blue header 'Classification' is followed by 'Class: CLASS A - Physically Fit' and an empty 'Notes:' field.
- Modify Classification Section:** A blue header 'Modify Classification of Abad, Harold Catacutan' is followed by a 'Classification:' dropdown menu (currently showing 'Select Patient Classification') and an 'Overall Findings:' text input field (containing 'Input Normal/Findings'). A blue 'SUBMIT' button is located at the bottom right of this section.

This is the doctor can classify a patient based on the all the results.

F. QC MODULE

Figure 41: Home



Index of Quality Control Module.

Figure 42: QCList

The screenshot shows a web browser window with the URL `localhost/QC/QCMCList.php`. The interface has a blue navigation bar with links: Home, Patient Summary, QC, Summary, PE Form, MedCert, and a LOGOUT button. Below the navigation bar, there are tabs for Excel, PDF, and Column visibility, along with a search bar. The main content is a table with the following columns: ID, Last Update, Company Name, Patient Name, and Action. The table contains 8 rows of patient data, each with an 'ADD/UPDATE QC' button in the Action column.

ID	Last Update	Company Name	Patient Name	Action
1	2018-02-28 05:48:51	PENTHOUSE	Abad,Harold Catacutan	ADD/UPDATE QC
2	2018-02-28 05:53:20	PENTHOUSE	Angeles,Jane Alcantara	ADD/UPDATE QC
3	2018-02-28 05:54:45	PENTHOUSE	Aquino,Russell Sales	ADD/UPDATE QC
4	2018-02-28 05:55:18	PENTHOUSE	Baldoz,Edgardo Garcia	ADD/UPDATE QC
5	2018-03-01 07:32:51	PENTHOUSE	Bamba,Christine Hazel Torres	ADD/UPDATE QC
6	2018-03-01 02:12:10	PENTHOUSE	Bedania,Bonie Macapagal	ADD/UPDATE QC
7	0000-00-00 00:00:00	PENTHOUSE	Besario,Maricar Saranillo	ADD/UPDATE QC
8	2018-02-28 05:58:51	PENTHOUSE	Bordon,Genell Cuenca	ADD/UPDATE QC

The list of patients for add/update QC.

Figure 43: Add / Update QC

Medical Examination Re: x localhost / 127.0.0.1 / d: x

localhost/QC/QCMCReportADD.php?id=1

HEMATOLOGY Complete Blood Count White Blood 5.4 x10 ⁹ /L Normal Range 4.23-11.97 Hemoglobin 158 g/L M:137-175 Hematocrit 0.48 VF M:0.40-0.51 Differential Count Neutrophils 50 % 34.71 Lymphocytes 45 % 22.53 Monocytes 5 % 5.12		CLINICAL MICROSCOPY Complete Urinalysis Physical/Chemical Color <u>YELLOW</u> Transparency <u>HAZY</u> pH <u>6.5</u> Sp-Gravity <u>1.010</u> Protein <u>Negative</u> Glucose <u>Negative</u>	
SEROLOGY HBsAg <u>NONREACTIVE</u> Pregnancy Test <u>N/A</u> OTHERS/NOTES: <u>NONE</u>		Microscopic RBC <u>0</u> /hpf Normal Range 0-3 WBC <u>0</u> /hpf 0-5 E.Cells <u>Rate</u> M.Threads <u>NONE</u> Amorphous <u>NONE</u> Bacteria <u>NONE</u> CaOx <u>NONE</u> OTHERS/NOTES: <u>NORMAL</u>	
DRUG TESTING Methamphetamine <u>NEGATIVE</u> Tetrahydrocannabinol <u>NEGATIVE</u>			
FECALYSIS Color <u>LIGHT BROWN</u> Consistency <u>FORMED</u> Microscopic Findings <u>NO INTESTINAL PARASITE SEEN</u> OTHERS/NOTES <u>NONE</u>			

Adelbert D. Gonzales,RMT
Registered Medical Technologist

Renzo Lloyd C. Tapnio,RMT
Quality Control

Emiliano Dela Cruz,MD
Pathologist

RADIOLOGY REPORT
 No abnormal densities seen in both lung parenchyma. The heart is normal in size and configuration. Aorta is unremarkable. The diaphragms, costophrenic sulci and bony thorax are intact.
 IMPRESSION:
 NORMAL CHEST FINDINGS

Hante Munoz,RXT
Quality Assurance

Salvador Ramirez,MD.DPBR
Radiologist

SUBMIT

This is where you can add/update QC Person.

Figure 44: Summary Report

The screenshot shows a web browser window with the URL `localhost/QC/SummaryReport.php`. The page has a blue navigation bar with links: Home, Patient Summary, QC, Summary, PE Form, MedCert, and a LOGOUT button. The main content area is divided into three sections:

- Generate Everyday Summary Report**: Contains a note "NOTE: This section is for Generating PDF through browser for daily updating per company." Below the note are three input fields: "Start Date" (placeholder: yyyy-mm-dd hh:mm:ss), "End Date" (placeholder: yyyy-mm-dd hh:mm:ss), and "Company Name:" (a dropdown menu with "Select Company." as the selected option). A blue "Generate" button is positioned below these fields.
- Generate Billing Report**: Contains a note "NOTE: This section is for Generating EXCEL/PDF through browser for billing per company." Below the note are three input fields: "Start Date" (placeholder: yyyy-mm-dd hh:mm:ss), "End Date" (placeholder: yyyy-mm-dd hh:mm:ss), and "Company Name:" (a dropdown menu with "Select Company." as the selected option). A blue "Generate" button is positioned below these fields.
- END OF THE DAY SUMMARY**: A solid blue bar at the bottom of the form area.

To generate summary reports.

G. CASH CASHIER MODULE

Figure 45: SCROLL BAR for Items

The image shows a software interface for a cash cashier module. It features two identical scrollable item lists. The top list is open, showing a dropdown menu with the text 'SELECT ITEM' at the top. Below this, a list of medical tests is displayed, each with its name and price in parentheses: 'CBC (Complete Blood Count) (125.00)', 'Chest XRAY (Chest PA) (200.00)', 'Fecalysis (Routine Fecalysis) (65.00)', and 'Urinalysis (Complete Urinalysis) (75.00)'. The 'Fecalysis' item is currently selected, highlighted in blue. A vertical scrollbar is visible on the right side of the list. Below the list, the text 'GRAND TOTAL' is partially visible. The second scrollable list below it is closed, showing only the 'SELECT ITEM' text. Below the second list is a button labeled 'ADD'.

This function enables the user to pick any item included in the list one at a time. After choosing and clicking what ITEM to avail, the user needs to click the ADD button to add the chosen item on the transaction form.

Figure 46: ADD ITEMS TO TRANSACTION LIST AND COMPUTE

Transaction No.: **01382465** Cashier: **HCAVillegas**

ADD

Item Name	Description	Quantity	Price(PHP)
CBC	Complete Blood Count	1	125.00
Fecalysis	Routine Fecalysis	1	65.00
GRAND TOTAL		2	190.00

The above image is the Transaction Form. It shows all the chosen items from the SCROLL BAR in listed format and with TOTAL AMOUNT computation.

Figure 47:SCROLL BAR SEARCH for Patient Records

The image shows a user interface for searching patient records. It consists of two identical horizontal panels. Each panel contains a dropdown menu labeled 'SELECT PATIENT' with a downward arrow, a blue button labeled 'NEW RECORD', and a blue button labeled 'SEARCH'. The second panel's dropdown menu is open, showing a scroll bar and two options: 'SELECT PATIENT' and 'AGUSTIN, EDWARD S.'.

This function enables the user to ADD NEW PATIENT RECORD or SEARCH FOR EXISTING PATIENT RECORD. If the user wanted to SEARCH FOR EXISTING PATIENT RECORD, he/she needs to choose from the listed names in the SCROLL BAR then click the SEARCH button. The information of the chosen data will be shown in the text fields of PATIENT INFO FORM. See image below.

Figure 48: ADD New Patient Record

PATIENT INFORMATION

First Name:	Middle Name:	Last Name:
<input type="text" value="EDWARD"/>	<input type="text" value="S."/>	<input type="text" value="AGUSTIN"/>
Company Name:	Applied Position:	Address:
<input type="text" value="QUEST PHIL DIAGNOSTICS"/>	<input type="text" value="NURSE"/>	<input type="text" value="Macabebe, Pampanga"/>
Birth Date:	Age:	Gender:
<input type="text" value="10-29-88"/>	<input type="text" value="29"/>	<input type="text" value="MALE"/>
Contact No.:	Email Address:	Comment:
<input type="text" value="-"/>	<input type="text" value="-"/>	<input type="text"/>

PATIENT INFORMATION

First Name:	Middle Name:	Last Name:
<input type="text"/>	<input type="text"/>	<input type="text"/>
Company Name:	Applied Position:	Address:
<input type="text"/>	<input type="text"/>	<input type="text"/>
Birth Date:	Age:	Gender:
<input type="text" value="MM-DD-YYYY"/>	<input type="text"/>	<input type="text"/>
Contact No.:	Email Address:	Comment:
<input type="text"/>	<input type="text"/>	<input type="text"/>

If the user wanted to ADD NEW PATIENT RECORD, he/she needs to click the NEW RECORD button if the text fields has data but if all the fields are already clear there is no need to click the button. The user can now input the data of the new record. Once done inputting, the user needs to click the SUBMIT button.

Figure 49: TRANSACT Cash & PRINT RECEIPT CASH

2018-09-29 14:26:43
QUEST PHIL DIAGNOSTICS
 McArthur Hi-Way Cor. Salome Rd. Angeles City

AGUSTIN, EDWARD S.
 Co: **QUEST PHIL DIAGNOSTICS**
29/MALE
10-29-1988
 Referred by: **QUEST PHIL DIAGNOSTICS**
 Cashier: **HCAVillegas, HCAVillegas**
 Comment:
RCPT:#00000000000008

Item Description	Price
Chest XRAY, CBC [Chest PA, Complete Blood Count]	200.00, 125.00

Receipt Total:

Php325.00


Amount Tendered:

Php400.00

Given Change:

Php75.00

online results, www.questphil.com.ph



Print

Printer

Name: \\QUESTWEBSERVER\EPSON L210 Ser Properties...
Status: Ready
Type: EPSON L210 Series
Where: USB001
Comment: ☐ Print to file

Print range

☒ All
☐ Pages from: to:
☐ Selection

Copies

Number of copies:

1

2

3

☐ Collate

OK

Cancel

Once the user clicked the SUBMIT button, the page will automatically transact (store data to the final transaction table in the database) and redirect to another tab that shows the receipt format and printing of CASH RECEIPT.

MANUAL START-UP APPLICATION

STEP #1

Search for XAMPP Control Panel in the START button of the SERVER. Double click the icon and start the first two modules (Apache and MySQL). After starting the modules, close the XAMPP control panel in this action, all computer connected in the network can now access the QIS.

STEP #2

Open the MOZILLA FIREFOX browser then type in the URL
QUESTWEBSERVER:8080/QUEST

STEP #3

In the landing page, if not yet registered, click the SIGN-UP button and fill out the required field such as username, email address, password and choose what type of account you need. If you already registered, click the SIGN IN button then login.

FOR NURSE and RECEP ACCOUNT TYPE

STEP #4

After logging in, click the sidebar icon then search for the ADD PATIENT then click the REFERRAL.

STEP #5

Fill out all the fields in patient registration form then click submit at the bottom.

STEP #6

After registration, click again the sidebar the search and click the patient records button then click the MEDICAL HISTORY.

STEP #7

Choose the name of the patient then click ADD RECORD. Complete the checking of boxes in line with the illnesses then click submit at the bottom.

STEP #8

After adding records to medical history, click again the sidebar the search and click the patient records button then click the VITAL SIGNS.

STEP #9

Choose the name of the patient then click ADD RECORD. Fill out all the fields then click submit at the bottom.

STEP #10

After inputting all the data, you can now view the SUMMARY OF RECORDS of the patient, click the sidebar then search and click for the Patient List. In the Patient List,

there were the list of patients registered. Click VIEW SUMMARY RECORD in line with the patient name if you want to see his/her complete records. You can also view the Medical Certificate and Physical Examination Form in the CERTIFICATE button on the sidebar.

STEP #11

Click LOGOUT in the sidebar under your username if you are finished.

FOR MEDICAL TECHNOLOGIST

STEP #4

After logging in, click the sidebar icon then search for the PATIENT RECORD then click the Laboratory Results. Choose the name of the patient then click ADD RECORD.

STEP #5

Fill out all the field then click submit at the bottom.

STEP #6

After inputting all the data, you can now view the SUMMARY OF RECORDS of the patient, click the sidebar then search and click for the Patient List. In the Patient List, there were the list of patients registered. Click VIEW SUMMARY RECORD in line with the patient name if you want to see his/her complete records. You can also view the Medical Certificate and Physical Examination Form in the CERTIFICATE button on the sidebar.

STEP #7

Click LOGOUT in the sidebar under your username if you are finished.

FOR RADIOLOGIC TECHNOLOGIST

STEP #4

After logging in, click the sidebar icon then search for the PATIENT RECORD then click the Radiology Report. Choose the name of the patient then click ADD RECORD.

STEP #5

Fill out all the field then click submit at the bottom.

STEP #6

After inputting all the data, you can now view the SUMMARY OF RECORDS of the patient, click the sidebar then search and click for the Patient List. In the Patient List, there were the list of patients registered. Click VIEW SUMMARY RECORD in line with the patient name if you want to see his/her complete records. You can also view the Medical Certificate and Physical Examination Form in the CERTIFICATE button on the sidebar.

STEP #7

Click LOGOUT in the sidebar under your username if you are finished.

FOR DOCTORS

STEP #4

After logging in, click the sidebar icon then search for the PATIENT RECORD then click the Physical Examination. Choose the name of the patient then click ADD RECORD.

STEP #5

Fill out all the field then click submit at the bottom.

STEP #6

If all the needed records were complete, you can now add the CLASSIFICATION of the patient. Click the sidebar icon then search for the PATIENT RECORD then click the Patient Classification. Choose the name of the patient then click ADD RECORD.

STEP #7

Review the patient records then choose his/her classification at the bottom part of the form then click submit.

STEP #8

After inputting all the data, you can now view the SUMMARY OF RECORDS of the patient, click the sidebar then search and click for the Patient List. In the Patient List, there were the list of patients registered. Click VIEW SUMMARY RECORD in line with the patient name if you want to see his/her complete records. You can also view the Medical Certificate and Physical Examination Form in the CERTIFICATE button on the sidebar.

STEP #9

Click LOGOUT in the sidebar under your username if you are finished.

FOR QUALITY CONTROL

STEP #4

After logging in, click the sidebar icon then search for the PATIENT RECORD then click the QC-Medical Certificate. Choose the name of the patient then click ADD RECORD.

STEP #5

Fill out all the field then click submit at the bottom.

STEP #6

If all the needed records were complete and already reviewed by the QC, you can now print the patient's Medical Certificate. Click the sidebar icon then search for the PATIENT RECORD then click the QC-Medical Certificate. Choose the name of the patient then click VIEW CERTIFICATE then click the setting icon of the browser at the upper-right screen then choose PRINT. This button will show you the print preview of the certificate. Click CTRL+P if you want to print the Certificate.

STEP #7

After inputting all the data, you can now view the SUMMARY OF RECORDS of the patient, click the sidebar then search and click for the Patient List. In the Patient List, there were the list of patients registered. Click VIEW SUMMARY RECORD in line with the patient name if you want to see his/her complete records. You can also view the Medical Certificate and Physical Examination Form in the CERTIFICATE button on the sidebar.

STEP #8

For printing of SUMMARY REPORT for a company, click the SUMMARY REPORT button at the sidebar. There you can filter the report by inputting the START DATE, END DATE and COMPANY NAME in the filter then click GENERATE REPORT.

STEP #9

Click the setting icon of the browser at the upper-right screen then choose PRINT. This button will show you the print preview of the summary report. Click ctrl+P if you want to print the summary report.

STEP #10

Click LOGOUT in the sidebar under your username if you are finished.

FOR THE ADMIN (APE)

STEP #1

Prepare the excel file (the lists of persons to take the medical) that will be imported to the system. (Make sure that it is saved in .csv file extension)

STEP #2

After logging in, look for the 'MANAGE PATIENTS' on the header/menu and click it.

STEP #3

Click the 'CHOOSE FILE BUTTON'. When the modal appears, select your excel file you want to import in to the system.


STEP #4


Lastly, click the 'IMPORT' button to import your excel file.

REVISION #1 CASH CASHIER MODULE CHANGES/PROGRESS AS OF 09/29/2018

RE: CASH TRANSACTION

New User Interface Design

[Home](#) [Transaction List](#) [HMO Record](#) [Manage Tests Packages](#) [Sales Report](#) [LOGOUT](#)

No.:  20394658

Cashier: HCAVillegas

SELECT ITEM

ADD

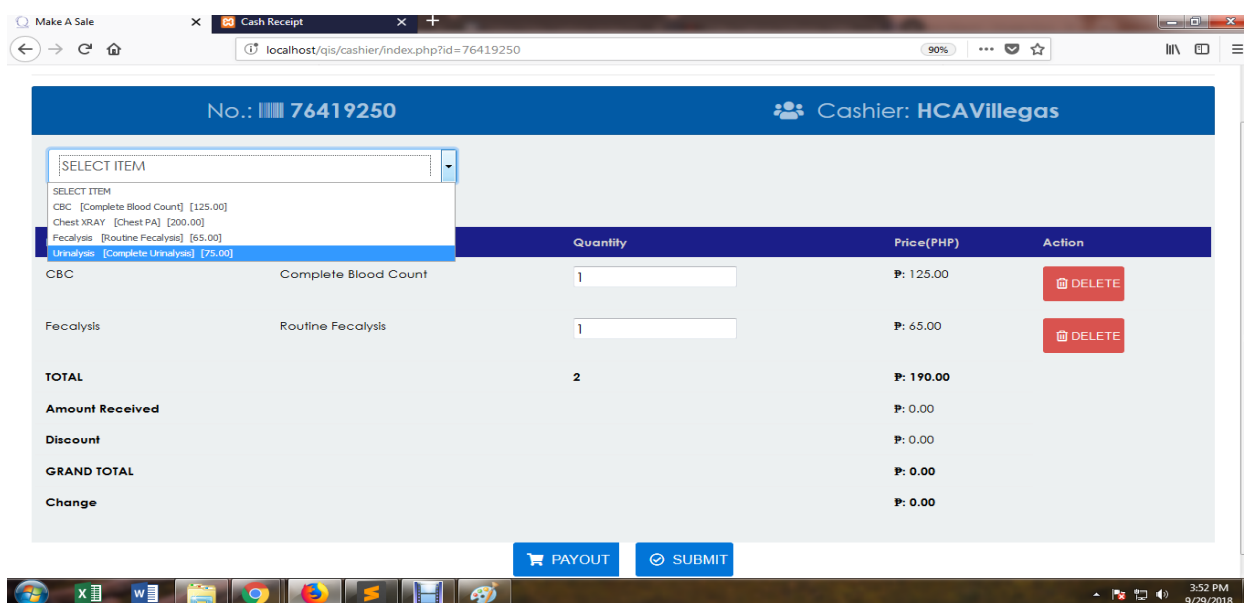
Item Name	Description	Quantity	Price(PHP)	Action
TOTAL		0	P: 0	
Amount Received			P:	
Discount			P:	
GRAND TOTAL			P:	
Change			P:	

PAYOUT

SUBMIT

The new user interface design only shows the Transaction Form and Item Scroll Bar unlike the 1st Version where both Patient Scrollbar/Form and Transaction Form / Item Scroll Bar where on the same page. The PAYOUT button was also added.

Choose Item, Add to Transaction Form, Edit Quantity, Delete Item



The screenshot shows a web application interface for a cash receipt. At the top, there's a header with the company name and contact information. Below that, a blue bar displays the receipt number '76419250' and the cashier's name 'HCAVillegas'. The main area is divided into two sections. On the left, there's a 'SELECT ITEM' dropdown menu with a list of items: CBC [Complete Blood Count] [125.00], Chest XRAY [Chest PA] [200.00], Fecalysis [Routine Fecalysis] [65.00], and Urinalysis [Complete Urinalysis] [75.00]. On the right, there's a table with columns 'Quantity', 'Price(PHP)', and 'Action'. The table contains two rows: 'CBC' with a quantity of 1 and price of P: 125.00, and 'Fecalysis' with a quantity of 1 and price of P: 65.00. Below the table, there are summary fields: 'TOTAL' (P: 190.00), 'Amount Received' (P: 0.00), 'Discount' (P: 0.00), 'GRAND TOTAL' (P: 0.00), and 'Change' (P: 0.00). At the bottom, there are two buttons: 'PAYOUT' and 'SUBMIT'.

Item	Quantity	Price(PHP)	Action
CBC	1	P: 125.00	DELETE
Fecalysis	1	P: 65.00	DELETE
TOTAL	2	P: 190.00	
Amount Received		P: 0.00	
Discount		P: 0.00	
GRAND TOTAL		P: 0.00	
Change		P: 0.00	

After choosing and adding items from the ITEM SCROLLBAR and once added in the Transaction Form, the user can edit the ITEM QTY per item by modifying the default QTY per item shown in a text field. The user can also DELETE ITEM in the Transaction Form by simply clicking the DELETE button located in the right side of the screen.

PAYOUT

No.: 76419250

Cashier: HCAVillegas

SELECT ITEM

ADD

Item Name	Description	Price(PHP)	Action
CBC	Complete Blood Count	P: 125.00	DELETE
Fecalalysis	Routine Fecalalysis	P: 65.00	DELETE
TOTAL	2	P: 190.00	
Amount Received		P: 0.00	
Discount		P: 0.00	
GRAND TOTAL		P: 0.00	
Change		P: 0.00	

PAYOUT SUBMIT

SELECT DISCOUNT

Sub Total:

P: 190.00

Discount:

P: 0

Total:


190.00

Amount Received:

Payout

After finalizing all items to avail, the user must click the PAYOUT button. PAYOUT button enables the user to select discount and input amount received from the customer/patient.



SUBMIT


No.:  76419250


Cashier: HCAVillegas

SELECT ITEM

ADD


Item Name	Description	Quantity	Price(PHP)	Action
CBC	Complete Blood Count	1	P: 125.00	 DELETE
Fecalysis	Routine Fecalysis	1	P: 65.00	 DELETE
TOTAL		2	P: 190.00	
Amount Received			P: 200.00	
Discount			P: 0.00	
GRAND TOTAL			P: 190.00	
Change			P: 10.00	

 PAYOUT

 SUBMIT

After PAYOUT has been done, the computation of the input will be shown under the amount of the Items. Click submit to finalize transaction.

ADD/SEARCH NEW PATIENT

 [Home](#) [Transaction List](#) [HMO Record](#) [Manage Tests Packages](#) [Sales Report](#) [LOGOUT](#)

PATIENT INFORMATION

SELECT PATIENT

SEARCH

Company Name:

QUESTDIAGNOSTICS,INC.

Address:

Macabebe, Pampanga

Email Address:

-

Applied Position:

NURSE

Birth Date:

10-29-1988

Bill to:

First Name:

EDWARD

Age:

29

Referred By:

Middle Name:

S.

Gender:

MALE

Comment:

Last Name:

AGUSTIN

Contact No.:

-

SUBMIT

Cash

Account

After the submission of the items to avail, the page will redirect to a new page where the user can SEARCH then MODIFY or ADD NEW RECORD of patient. Once done, click submit to save all new information of Patient.

TRANSACT CASH and PRINT RECEIPT.

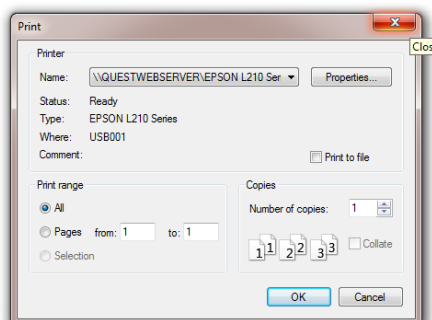
2018-09-29 16:05:59

QUEST PHIL DIAGNOSTICS
McArthur Hi-Way Cor. Salome Rd. Angeles City

Name: AGUSTIN, EDWARD S.
Company: QUESTDIAGNOSTICS,INC.
Age/Gen: 29 / MALE
DOB: 10-29-1988
Referral: QUESTDIAGNOSTICS,INC.
Cashier: HCAVillegas
Type: CASH
RCPT: #0000000000014

Items	Description	Price
CBC	Complete Blood Count	P:125.00
Fecalysis	Routine Fecalysis	P: 65.00
Receipt Total:		P:190.00
Discount:		P:0.00
Grand Total:		P:190.00
Amount Tendered:		P:200.00
Given Change:		P:10.00

online results. www.questphil.com.ph



lead localhost

Once the user clicked the CASH button, the page will automatically transact CASH and redirect to another tab that shows the receipt format and printing of CASH RECEIPT.

REVISION #2 CASHIER MODULE CHANGES/PROGRESS AS OF 10/13/2018

RE: CASH TRANSACTION

INTERFACE

QUEST INFO SYSTEM MANUAL x QUEST PHIL DIAGNOSTICS IN x Messenger x QIS DEV LIST OF ACTIVITIES - C x Make A Sale x

localhost/qis/cashier/Cash.php?id=80297461

Home Transaction List HMO Record Manage Tests Packages Sales Report LOGOUT

No.: 80297461 Cashier: HCAVillegas

SELECT ITEM SELECT PATIENT

ADD Add New Patient SEARCH

Item #	Item Name	Attribute	Quantity	Price	Ext Price
				Sub Total:	0
				Amount Received:	
				Amount Due:	P:0
				Change:	P:

CASH SAVE ONLY SAVE AND PRINT

1:09 PM 10/13/2018

Unlike the previous revision, this look was based from the QuickBooks POS v.11 which Quest Phil Staffs are used to.

QUEST INFO SYSTEM MANUAL x QUEST PHIL DIAGNOSTICS INF x Messenger x QIS DEV LIST OF ACTIVITIES - C x Make A Sale x

localhost/qis/cashier/Cash.php?id=80297461

Home Transaction List HMO Record Manage Tests Packages Sales Report LOGOUT

No.: ■■■ 80297461 Cashier: HCAVillegas

SELECT ITEM SELECT PATIENT

ADD Add New Patient SEARCH

Item #	Item Name	Attribute	Quantity	Price	Ext Price
7	AMYLASE	Discount: 10% Item Price: 225.00	QTY: 1 Discount %: 10	P:202.50	P:202.50
8	ANTI-HAV IgG	Discount: 0% Item Price: 395.00	QTY: 2 Discount %: 0	P:395.00	P:790.00

Sub Total: 992.50

Amount Received:

CASH Amount Due: P:992.50

Change: P:0.00

1:16 PM 10/13/2018

EDIT QUANTITY

We have added input box for the modification of QTY. The user can now edit the quantity of an item by simply changing the default value of 1 inside the input box beside the QTY label. Once the input was changed, the user can now click the “Edit Quantity/Discount” button to apply and compute the changes. The result of the computation will be displayed under the “Ext Price” header, which stands for EXTENDED PRICE. The formula for this would be: $\text{Price} \times \text{QTY} = \text{Ext Price}$.

EDIT DISCOUNT %

We have added input box for the modification of Discount %. The user can now edit the discount percentage of an item by simply changing the default value of 0 inside the input box beside the “Discount %” label. Once the input was changed, the user can now click the “Edit Quantity/Discount” button to apply and compute the changes. The result of the computation will be displayed under the “Price” header. The formula for this would be: **In getting the discount amount**, $\text{Discount Total} = \text{Discount Percentage} / 100 \times \text{Item Price}$. **In computing for the Price**: $\text{Price} = \text{Item Price} - \text{Discount Total}$

COLORED ITEM ROW

To highlight the chosen items, we have colored each item row like in the POS.

ADD NEW PATIENT MODAL

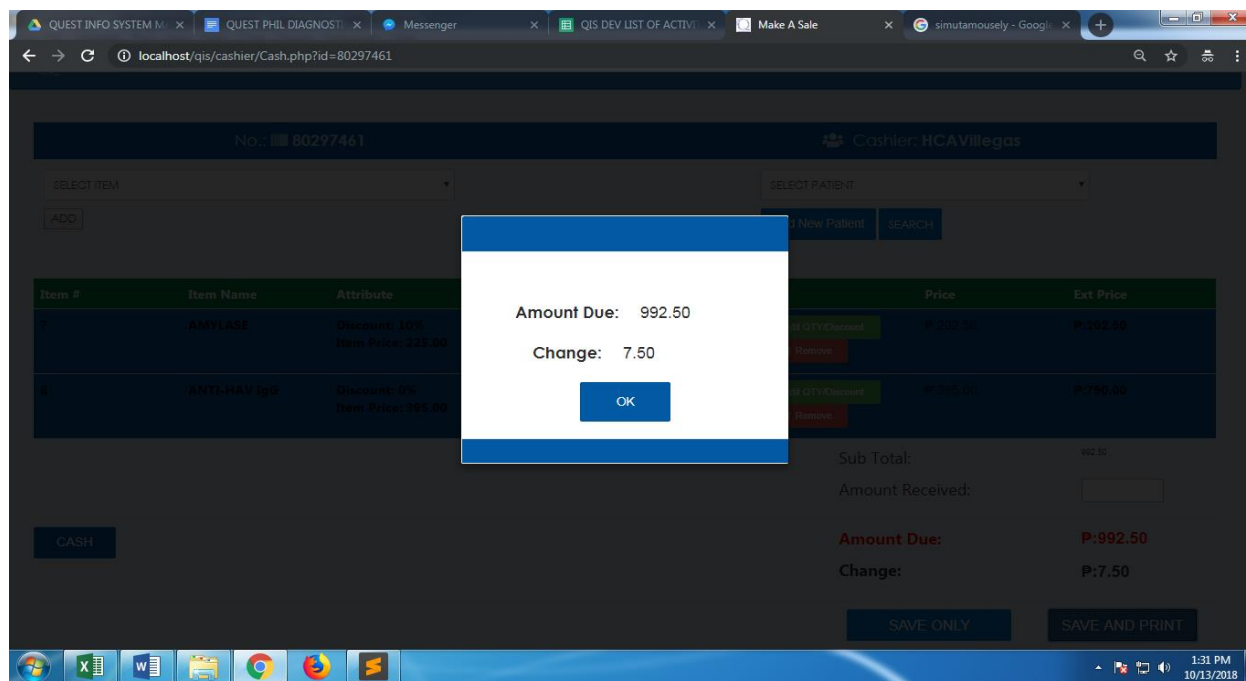
The screenshot displays the QUEST PHIL DIAGNOSTICS web application interface. A modal titled "Add New Patient" is centered on the screen, overlaying the transaction list. The modal contains the following fields:

- Company Name:
- Address:
- Email Address:
- Applied Position:
- Birth Date:
- Bill to:
- First Name:
- Age:
- Middle Name:
- Gender:
- Last Name:
- Contact No.:

A blue "SUBMIT" button is located at the bottom right of the modal. The background page shows a transaction list with columns for Item #, Item Name, Attribute, Price, and Ext Price. The total amount due is P:992.50, and the change is P:7.50. The cashier is HCAVillegas.

We have changed this feature back from its original form because it is easier for the user to do the transaction simultaneously when it is in the same page as the transaction list before the final submit

AMOUNT DUE AND CHANGE POP-UP MESSAGE



Like in the POS transaction, we have added this feature for the cashier to see the final amount and change to be given back to the customer/patient before submitting and printing the receipt.