

# CRUZ-RABE PHARMACY REQUEST SYSTEM

Cruz-Rabe Maternity and General Hospital

Developer: Bueno | Rosales

MSYADD1 @ Asia Pacific College 2016 – 2017

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## Project Professor:

- Mr. Manuel Sebastian Sanchez MSYADD1 Class Professor

## Project Consultant:

- Dr. Manuel Calimlim Jr. SoCit Professor
- Mr. Alfredo Calimbo SoCsit Professor

## Project Adviser:

- Mr. Jayvee Cabardo Director, Education Technology

## Project Team:

- Carl Dominique Bueno Project Manager/Developer
- Glen Roy Rosales Project Analyst/Documenter

## Client Information:

Compant/Organization Name:	Cruz-Rabe Maternity and General Hospital
Project Name:	Cruz-Rabe Pharmacy Request System
Primary Contact Person:	Carmelita Buenaflor
Position:	Chief Pharmacists

## Health Facility Detailed Information:

ACCREDITATION NO:	H92007290
PMCC NO:	313634
INSTITUTION NAME:	Cruz-Rabe Maternity and General Hospital
ROAD NAME:	37 Gen. Luna Street
BARANGAY:	Tuktukan
MUNICIPALITY:	Taguig City
PROVINCE:	Metro Manila (SOUTH)
REGION:	NCR (SOUTH)
CATEGORY:	Level 2
CLASSIFICATION:	Private

# I. Introduction

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## Project Context

In order to ensure patient's safety, cost effective processes and well managed admission on managing medical services, through preventing clinical errors and use resources efficiently. Therefore, business process should have a sufficient tool which is an automation of "*Pharmacy Request System.*" Transactions that are processed in different factors including; *IN* and *OUT* patient order entry, *dispensing orders*, *pharmacy inventory* and *purchasing management* will stand-alone by providing innovative way of service. The client *Cruz-Rabe Maternity General Hospital* uses the latest technology enabling *complete control* to improve medical management and to bring satisfaction to their clients in terms of *professional service*.

## Success Factors

We can assume that the system will be feasible if the proponents meet the following requirements:

- If the system seems to be helpful when hospital transactions (pharmacy requests) are now processed in just a few moments.
- If the results produced are accurate and reliable for the patients.
- If the pharmacy records can be tracked down easily from its database.
- If less resources are utilized but service would improve.

We can assume that the system will be successful for a long term if we meet the following requirements:

- If the system is useful to patients and hospital staffs in terms of service, performance and satisfaction.
- If it will generate enough revenue to support the maintenance of the system.

## Business Risk

**RI-1:** Might take in critics since the pharmacy department will be adapting changes towards its business transactions.

**RI-2:** It will require equipment and services in order to produce the system. This means, the organization need to invest in this project as there is a possibility to make changes in certain aspects such as its maintenance and security.

## **Purpose and Description**

A pharmacy within a hospital case, wherein there will only be IN and OUT patients for pharmacy request entry.

The system will have the following:

- Order Prescription
- Patient History Records,
- Stock Inventory of Medicine and Supplies Directory
- Department Directory
- Doctor Directory

## **Purpose and Success Factors**

**P1:** Make the processing of prescriptions faster and reliable

**P2:** Lessen the loss of data of the existing and upcoming pharmacy records

**P3:** Increase efficiency of work in input of information and processing of requests by the pharmacists upon implementation

**S1:** The pharmacists are able to maximize productivity with the use of the Pharmacy Request System (PRS)

**S2:** Receive a positive feedback from the client regarding the increase average amount of work done by the Pharmacy Department

## **Objectives**

### **General Objectives**

- Paperless Transactions System (PTS)
- Automation of Pharmacy Request System
- Convenient way of discharging patients

### **Specific Objectives**

- Eliminate mistakes caused by manual steps and workarounds
- Pharmacy transactions will be generated electronically for accessibility
- Pharmacy system will be more reliable and convenient
- Less tedious on data mining and documentation
- Save and track relevant information in real time

## **Vision Statement**

A *Web-based system* for processing *pharmacy request* within a system, dedicated to ease the way of accepting requests by pharmacists to process the *automated prescription orders* and *dispense orders* in a better way. It will not only verify the information received, but also keep the records in a secured database which can be accessed for future preferences. Unlike the old-way of *manual processes*, *Cruz-Rabe Pharmacy Request System* intends to improve the quality of work in the medical field by providing the essential steps of transactions in fast-pace. *The vision of this system is determined to meet patient's satisfaction in terms of service.*

## **Scope and Limitations**

Pharmacy Request System is intended for pharmacists to use in their service that assists patients' drug requests that is prescribed by a doctor. Alternatively, the Pharmacy Requests will be automated and the data will be on a database for data warehouse. This scheme will ease the work of the auditing staff and improve the discharging process of patients.

## **Assumptions and Dependencies**

**AS-1:** Additional equipment, services, and maintenance will be improvised for the authorized personnel to do the business processes.

**AS-2:** The hospital will be developed to ensure the system was implemented well-lesser hardcopies, more softcopies for the records.

**DE-1:** If the pharmacy records will be accessible with the other departments to support the system for consistency of the data.

## II. Related Literature

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***Omnicell*** is recognized as a leading provider of comprehensive, technologically advanced automation that enables health care facilities to acquire, manage, dispense, and deliver medications and supplies more effectively. Omnicell automation is used from the point of entry into the hospital through the central pharmacy, nursing units, operating room, procedural areas, and patient bedsides – as well as in long-term care sites. For over 20 years the mission of Omnicell has focused on improving the medication and supply distribution process.

More than 4,000 acute care customers worldwide have used Omnicell's medication automation, supply chain, and analytics solutions to improve efficiency, reduce errors, and lower costs. Omnicell non-acute care solutions, including the MTS brand, enable approximately 7,000 institutional and retail pharmacies worldwide to optimize productivity and control costs. Moreover, the innovative medication adherence packaging solutions can reduce costly hospital readmissions.

At Omnicell, delivering our technology is just the beginning. We are also committed to delivering the best customer experience. To ensure our customers gain the most utility from their Omnicell systems, we offer a suite of analytics software, a comprehensive training and education program, and first-rate customer support. Omnicell has been recognized with KLAS award every year since 2006.

Key product lines:

- Central pharmacy automation
- Medication management systems
- Supply management systems
- Business analytics
- Medication adherence packaging



***PioneerRx Pharmacy System*** is a windows-based ground-breaking pharmacy software. Cutting edge features include the Apple iPad Signature Capture, Email/Text Customer Notification, Hard Copy Imaging Workflow and more.

Developed with the experience of over 30 years of pharmacy software development and support, PioneerRx was built from scratch to provide the pharmacy community with a solution that can grow as the industry changes for the next 40 years. These features are designed to provide speed, simplicity, consistency and flexibility. However, our ultimate goal of development is to help pharmacies make more money.

Many features and benefits of PioneerRx that can help improve your pharmacy:

- Mobile Delivery offers an easy, secure and fun way for drivers to complete transactions, take payments, and store patient signatures while on a delivery.
- Advanced Searching throughout PioneerRx advanced search grids offer user-friendly options for pulling data such as custom layouts, fixed rows and columns, sorting, filtering and exporting.
- Apple iPad Electronic Signature Capture. Prepare for audits and impress your customers with the latest technology by capturing signatures on your Apple iPad or iPad Mini at the Drive Thru.
- Prescriber Add/Edit from NPI/DEA Database. PioneerRx supports seamlessly adding prescribers or updating their information from the National Provider Registry and DEA database. Never wait for hours to get a DEA number again.
- Integrated Pre/Post Edit. Pre and post edits are included in your PioneerRx software. Discover opportunities for increased payment due to errors such as Package Size, DAW, Obsolete NDC, and more.
- RxNotify. Send email, text and IVR messages when prescriptions are ready. Provide your customers with great service and keep your will call bins empty by using RxNotify.
- Modern Windows System. PioneerRx was built from scratch to take advantage of the capability and strengths of a modern Windows environment, including dashboard screens and Microsoft's ribbon bar navigation.

### **III. Technical Background**

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#### **Major Features:**

- F1:** Purchase medicine and supplies conveniently within the pharmacy
- F2:** Do inventory check easily for tracking down changes on stocks
- F3:** Discharge patients with electronic records
- F4:** Check the validation and availability of the requests
- F5:** Secure the authorization of the pharmacists and authorized personnel to do the process
- F6:** Send the information throughout the other departments electronically

## IV. Appendices

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### EVENT TABLE

EVENT	TRIGGER	SOURCE	USE CASE	RESPONSE	DESTINATION
GIVES PRESCRIPTION	To give prescription	Doctor	Will give prescription	Gives prescription and prints quotation	Patient
PRESCRIPTION PROCESSING	To have proof of prescribed order	Patient	Will present prescription	Presenting Prescription	Pharmacist
INVENTORY CHECKING	Checking of order availability	Pharmacist	To find if order is available	Checking of prescribed order	System
CONFIRMATION OF ORDER	To confirm the order availability and confirm the order	System	To tell the pharmacist and prints out confirmation	Confirmation of order prescribed and prints order information	Pharmacist, System
BILL PAYMENT	To pay bills of order	Patient	For order to be release	Process of order to be release	Accounting
CONFIRMATION OF PAYMENT AND PURCHASE	Issuing and showing of receipt as proof of payment	Accounting, Patient	To release and present receipt to get order	Issuing and showing of receipt to the pharmacist	Patient, Pharmacist
RELEASING OF ORDER	Release of order to the patient	Pharmacist	For patient to receive the order	Ending of process	Patient

### USE CASE FULL DEFINITION

Use Case Name:	Will present prescription				
Scenario:	Prescription Processing				
Triggering Event:	To have proof of Prescribed Order				
Brief Description:	Patient will present the prescription to the Pharmacist				
Actors:	Patient				
Related Use Cases:					
Stakeholders:	Pharmacist				
Preconditions:	Patient will get the prescription from the Doctor				
Post Conditions:	Pharmacist will check the prescription				
Flow of Activities:	<table><tr><td>Actor</td><td>System</td></tr><tr><td>1. Patient will give the prescription</td><td>1.1</td></tr></table>	Actor	System	1. Patient will give the prescription	1.1
Actor	System				
1. Patient will give the prescription	1.1				



<b>Use Case Name:</b>	To present receipt to get order
<b>Scenario:</b>	Confirmation of payment
<b>Triggering Event:</b>	Showing of receipt to the pharmacist
<b>Brief Description:</b>	Patient will give the receipt to the pharmacist as a proof he/she paid
<b>Actors:</b>	Patient
<b>Related Use Cases:</b>	To release a receipt to the patient
<b>Stakeholders:</b>	Patient, Pharmacist
<b>Preconditions:</b>	Patient will pay his/her bills
<b>Post Conditions:</b>	Accounting will issue a receipt to the patient
<b>Flow of Activities:</b>	<div style="display: flex; justify-content: space-between;"> <div><b>Actor</b></div> <div><b>System</b></div> </div> <ol style="list-style-type: none"> <li>1. Patient will show receipt</li> <li>2. Pharmacist will check the receipt</li> </ol>

<b>Use Case Name:</b>	To release a receipt to the patient
<b>Scenario:</b>	Confirmation of payment
<b>Triggering Event:</b>	Issuing receipt as proof of payment
<b>Brief Description:</b>	Accounting will issue a receipt to the patient
<b>Actors:</b>	Accounting
<b>Related Use Cases:</b>	For order to be release
<b>Stakeholders:</b>	Patient, Pharmacist
<b>Preconditions:</b>	Patient will pay his/her bills
<b>Post Conditions:</b>	Accounting will issue a receipt to the patient
<b>Flow of Activities:</b>	<div style="display: flex; justify-content: space-between;"> <div><b>Actor</b></div> <div><b>System</b></div> </div> <ol style="list-style-type: none"> <li>1. Patient will be told to pay his bills</li> <li>2. Accounting will issue a receipt</li> </ol>

<b>Use Case Name:</b>	For order to be release
<b>Scenario:</b>	Bill payment
<b>Triggering Event:</b>	To pay bills of order
<b>Brief Description:</b>	Patient will pay his/her order
<b>Actors:</b>	Patient
<b>Related Use Cases:</b>	To print out confirmation
<b>Stakeholders:</b>	Pharmacist
<b>Preconditions:</b>	Pharmacist will tell the patient to pay his/her order
<b>Post Conditions:</b>	Patient will pay his/her order
<b>Flow of Activities:</b>	<div style="display: flex; justify-content: space-between;"> <div><b>Actor</b></div> <div><b>System</b></div> </div> <ol style="list-style-type: none"> <li>1. Patient will be told to pay bills</li> </ol>

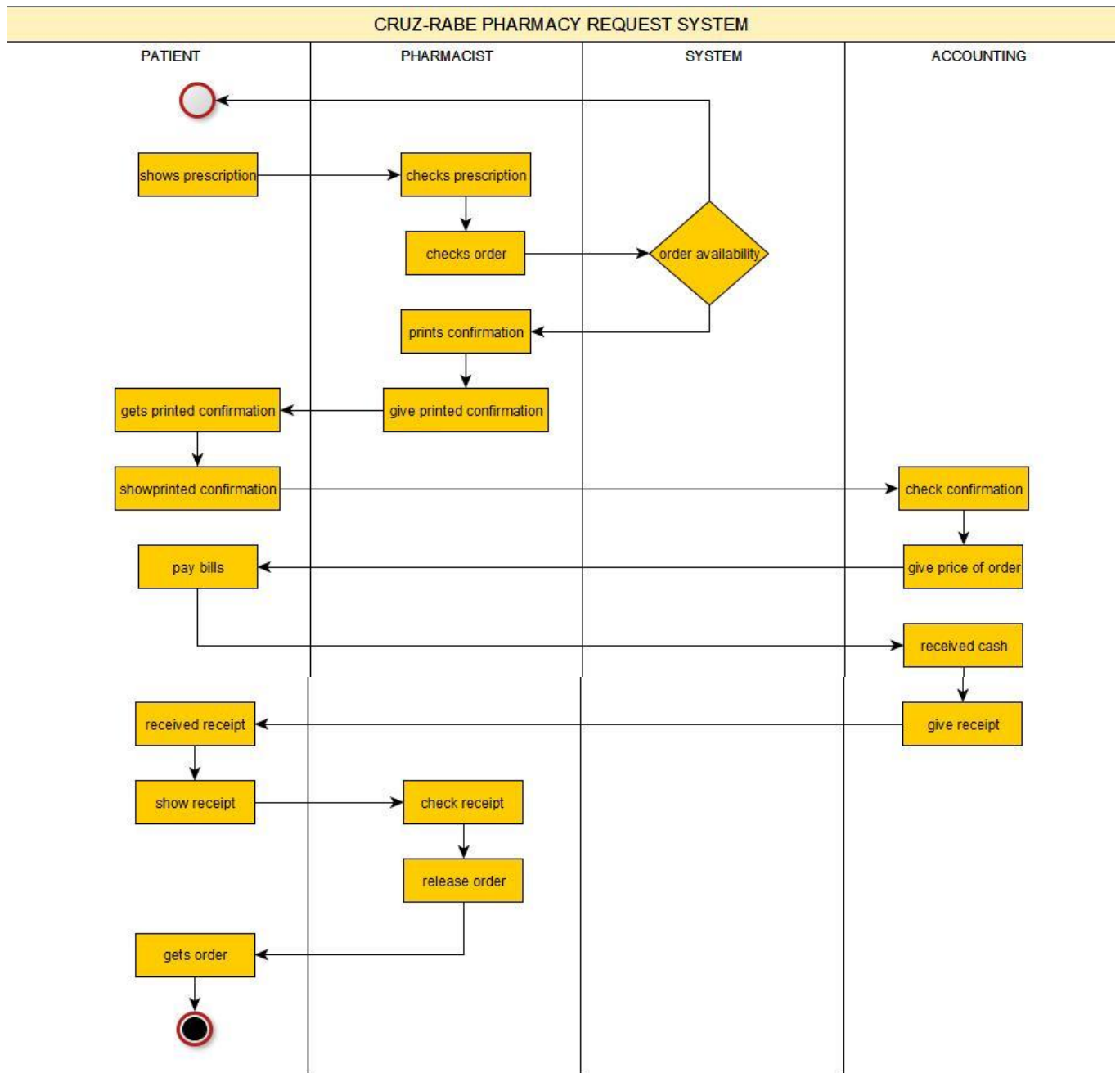
<b>Use Case Name:</b>	To print out confirmation
<b>Scenario:</b>	Confirmation of Order
<b>Triggering Event:</b>	To confirm the order and prints a quotation
<b>Brief Description:</b>	Pharmacist will confirm the order and prints a quotation
<b>Actors:</b>	Pharmacist
<b>Related Use Cases:</b>	To tell the pharmacist
<b>Stakeholders:</b>	Patient, Pharmacist
<b>Preconditions:</b>	Patient will give the prescribed order
<b>Post Conditions:</b>	Pharmacist will print order confirmation
<b>Flow of Activities:</b>	<div style="display: flex; justify-content: space-between;"> <div><b>Actor</b></div> <div><b>System</b></div> </div> <ol style="list-style-type: none"> <li>1. Pharmacist will confirm Order of the patient</li> <li>1.1. System will print order information</li> </ol>

<b>Use Case Name:</b>	To tell the pharmacist
<b>Scenario:</b>	Confirmation of Order availability
<b>Triggering Event:</b>	To tell if prescribed order is available
<b>Brief Description:</b>	System will confirm order prescribed
<b>Actors:</b>	System
<b>Related Use Cases:</b>	To find if order is available
<b>Stakeholders:</b>	Patient, Pharmacist
<b>Preconditions:</b>	Pharmacist will check the prescribed order
<b>Post Conditions:</b>	System will check if prescribed order is available
<b>Flow of Activities:</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;"><b>Actor</b></p> <ol style="list-style-type: none"> <li>System will check the prescription given the by Patient</li> </ol> </div> <div style="width: 45%;"> <p style="text-align: center;"><b>System</b></p> <ol style="list-style-type: none"> <li>1.1. System will check order availability</li> </ol> </div> </div>

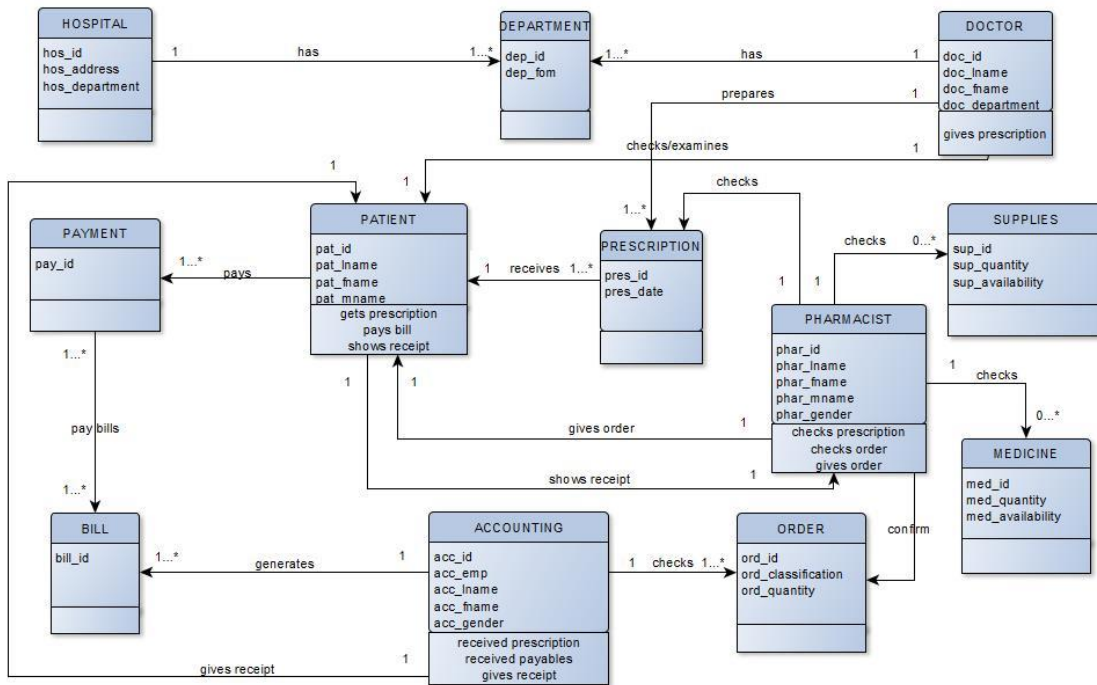
<b>Use Case Name:</b>	To find if order is available
<b>Scenario:</b>	Inventory Checking
<b>Triggering Event:</b>	Checking of order availability
<b>Brief Description:</b>	Pharmacist will check the prescription given by the patient
<b>Actors:</b>	Pharmacist
<b>Related Use Cases:</b>	Will present prescription
<b>Stakeholders:</b>	Patient
<b>Preconditions:</b>	Patient will give the prescription to the pharmacist
<b>Post Conditions:</b>	Pharmacist will check the prescription
<b>Flow of Activities:</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;"><b>Actor</b></p> <ol style="list-style-type: none"> <li>Pharmacist will check the prescription given the Patient</li> </ol> </div> <div style="width: 45%;"> <p style="text-align: center;"><b>System</b></p> <ol style="list-style-type: none"> <li>1.1. System will check order availability</li> </ol> </div> </div>

<b>Use Case Name:</b>	For patient to receive the order
<b>Scenario:</b>	Releasing of order
<b>Triggering Event:</b>	Release of order to the patient
<b>Brief Description:</b>	Pharmacist will give the order to the patient
<b>Actors:</b>	Pharmacist
<b>Related Use Cases:</b>	To present receipt to get order
<b>Stakeholders:</b>	Pharmacist
<b>Preconditions:</b>	Pharmacist will check the receipt
<b>Post Conditions:</b>	Pharmacist will release the order of the patient
<b>Flow of Activities:</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;"><b>Actor</b></p> <ol style="list-style-type: none"> <li>Pharmacist will check the receipt</li> <li>Pharmacist release the order of the patient</li> <li>Patient will receive his/her order</li> </ol> </div> <div style="width: 45%;"> <p style="text-align: center;"><b>System</b></p> </div> </div>

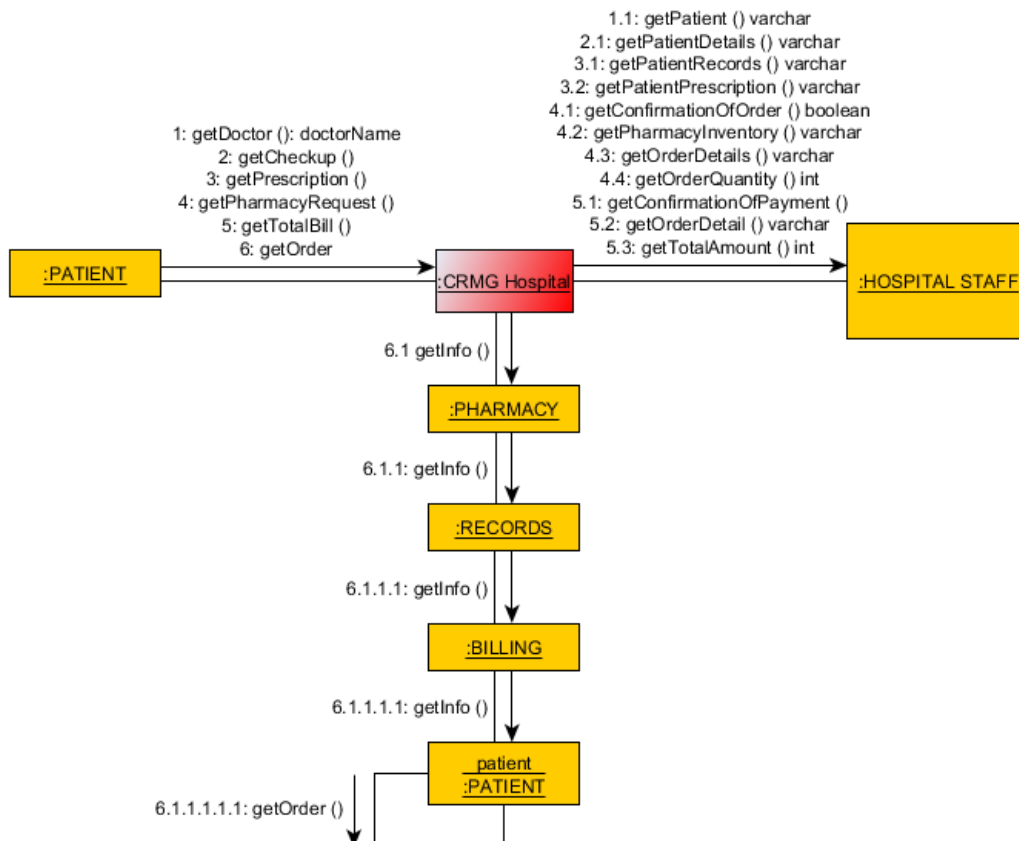
# ACTIVITY DIAGRAM



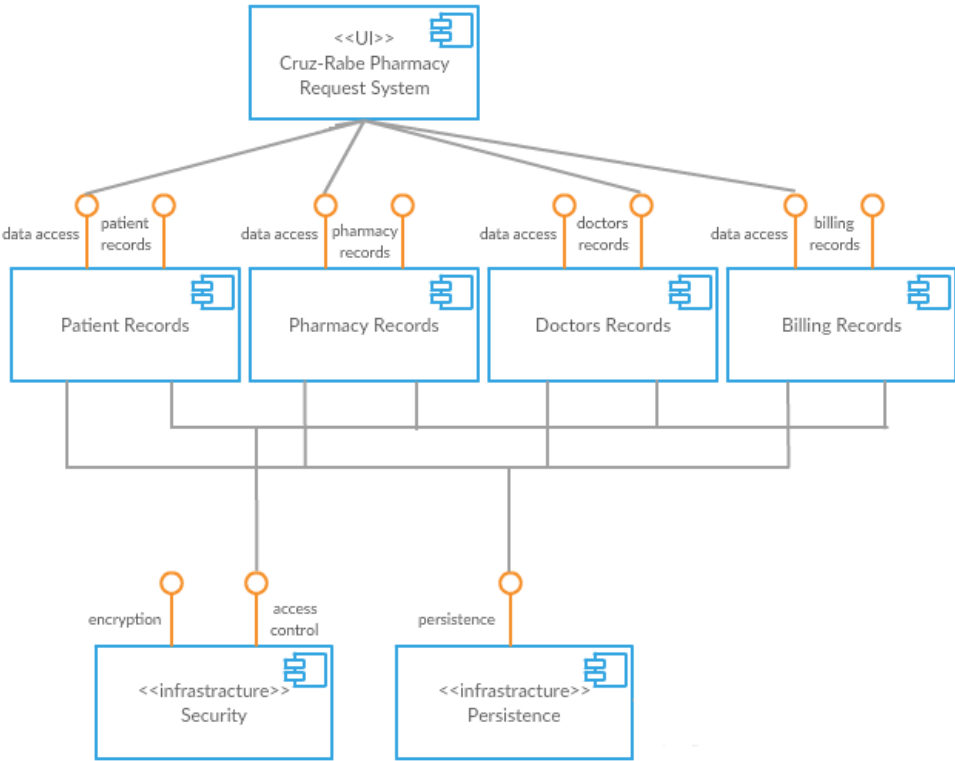
## CLASS DIAGRAM



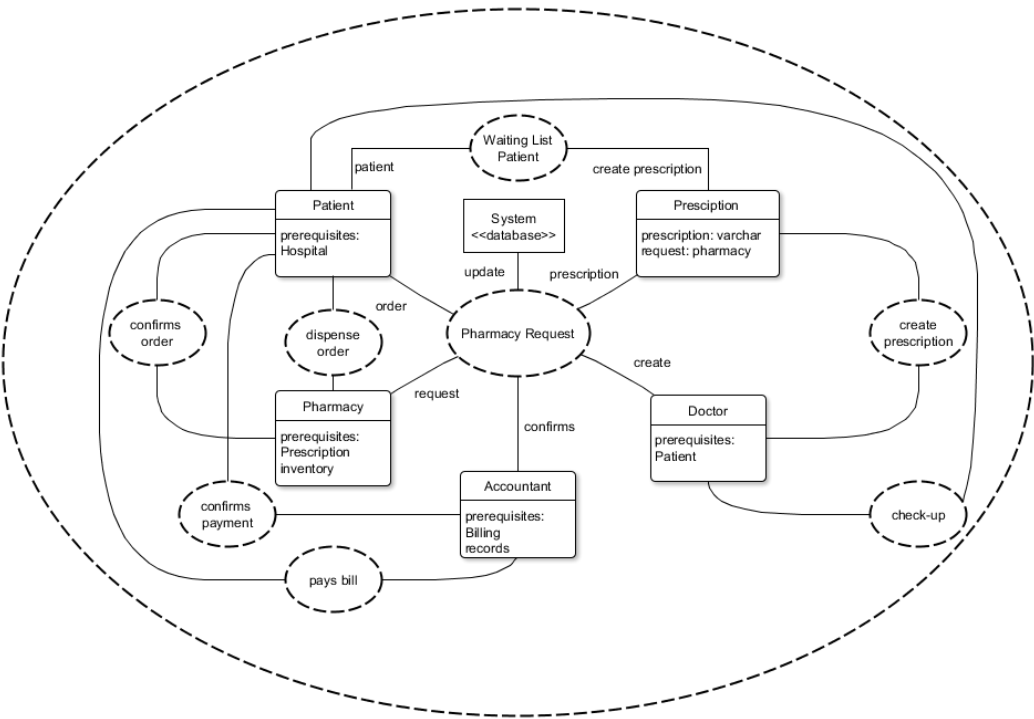
## COMMUNICATION DIAGRAM



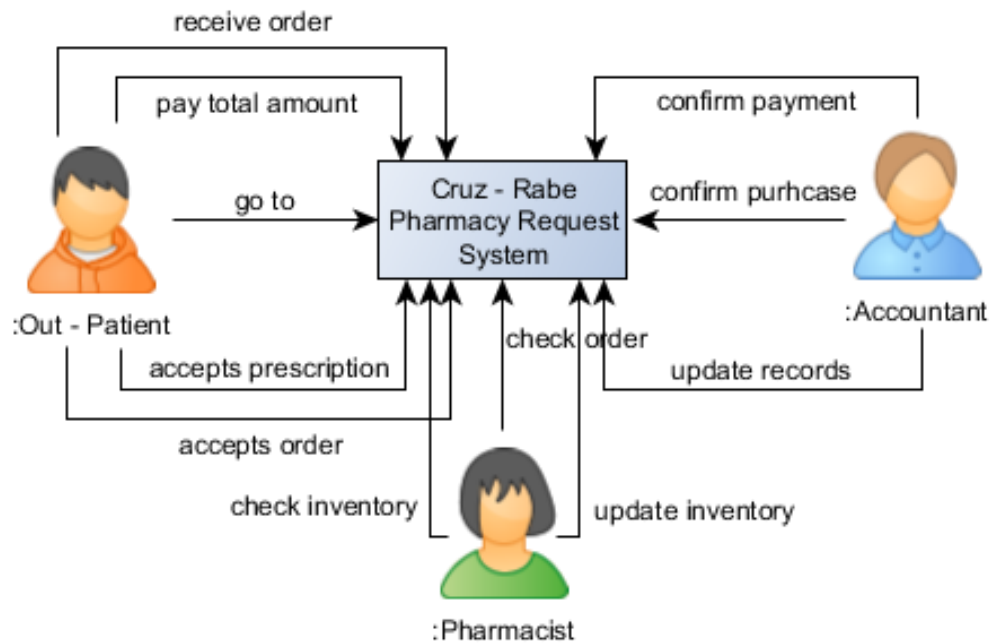
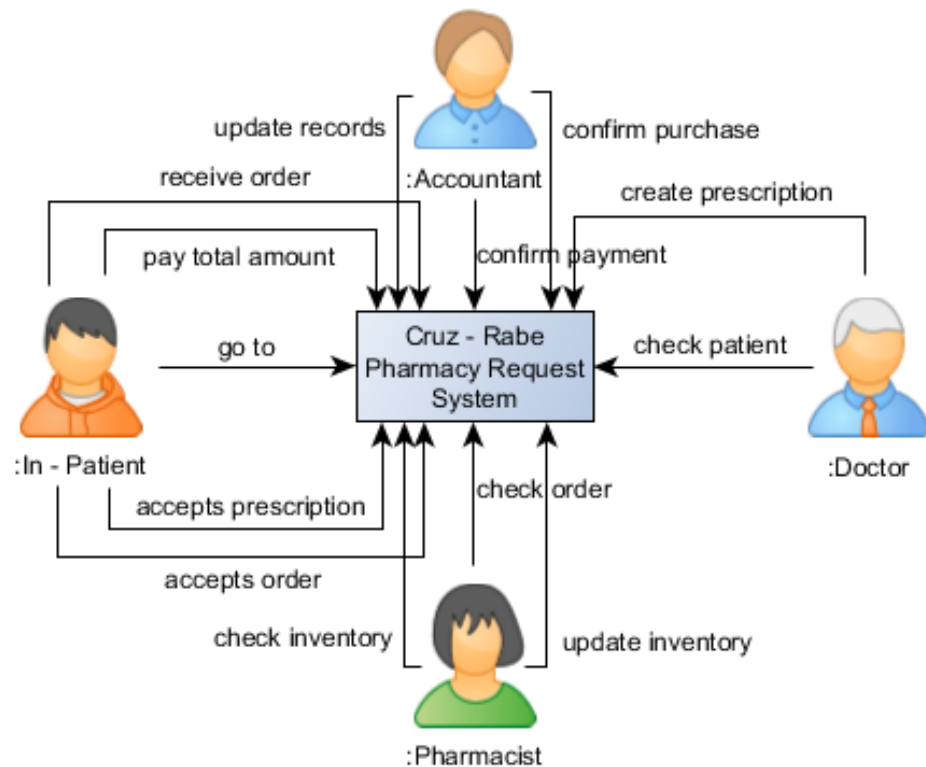
# COMPONENT DIAGRAM



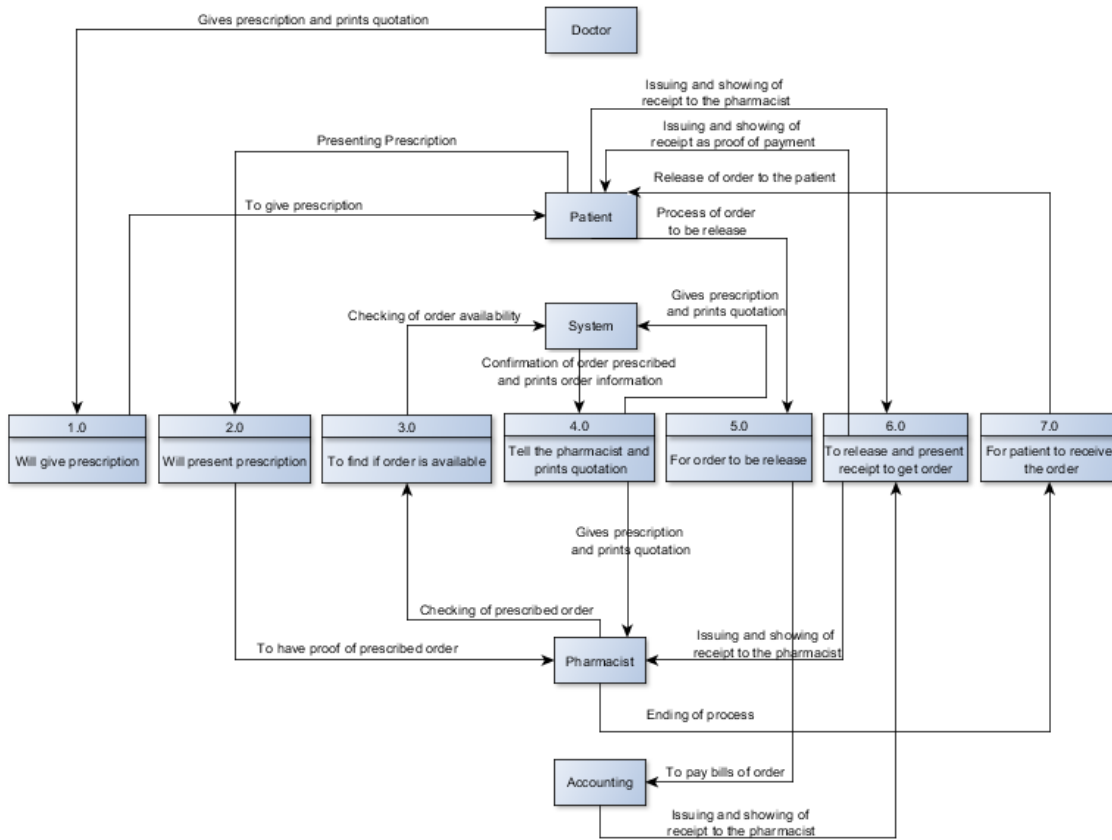
# COMPOSITE STRUCTURE FLOW



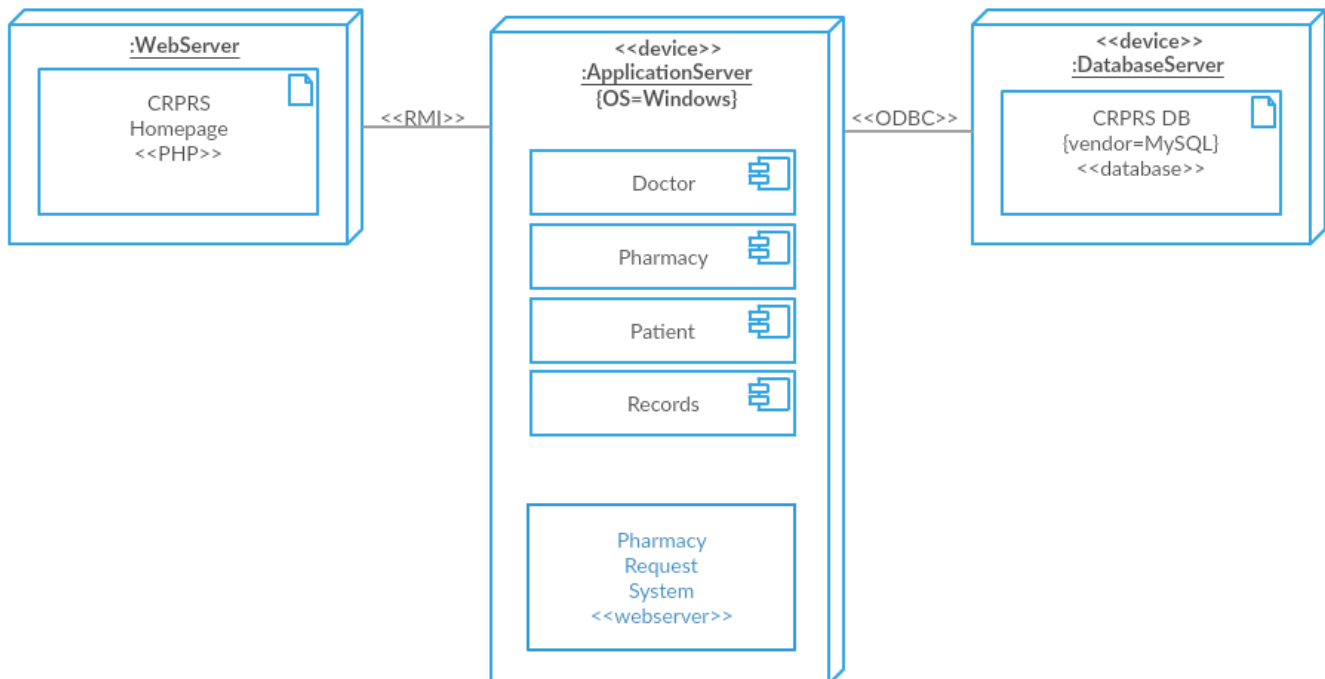
## CONTEXT FLOW DIAGRAM



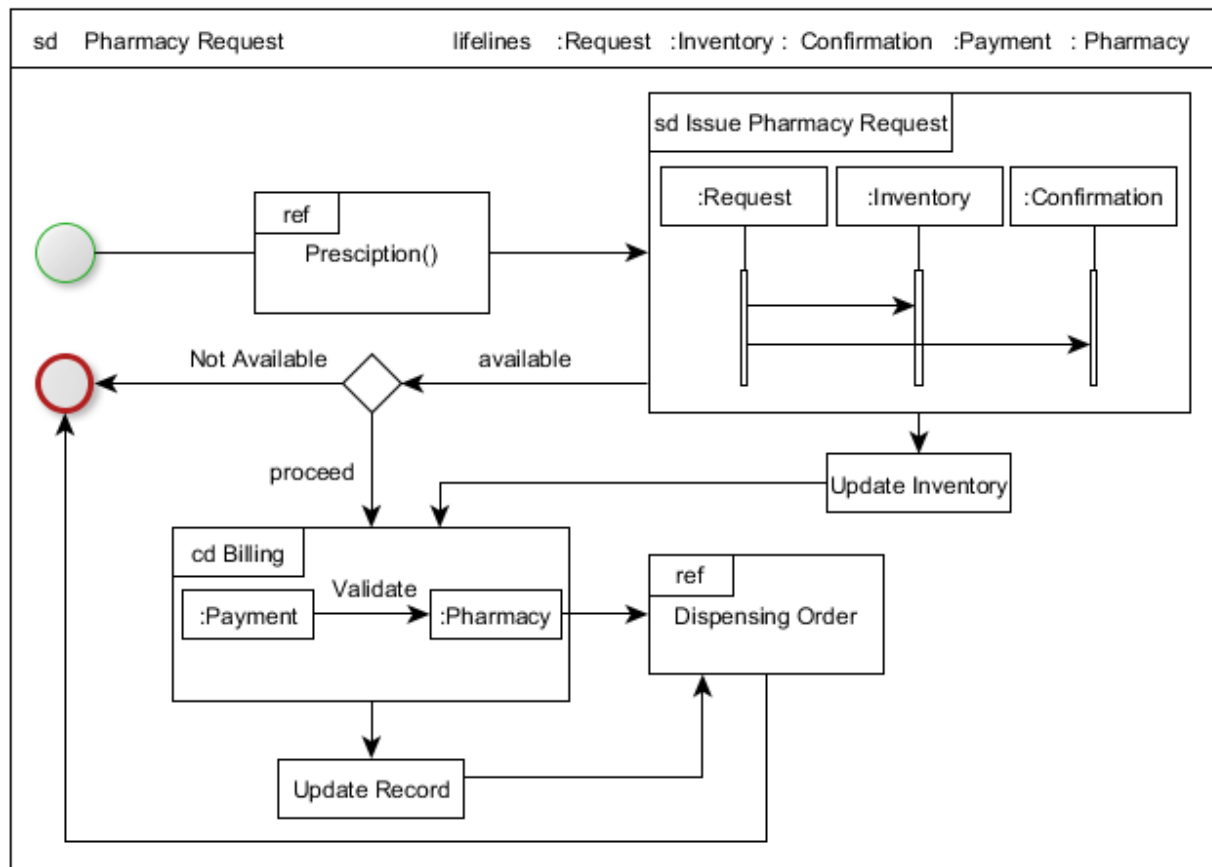
## DATA FLOW DIAGRAM



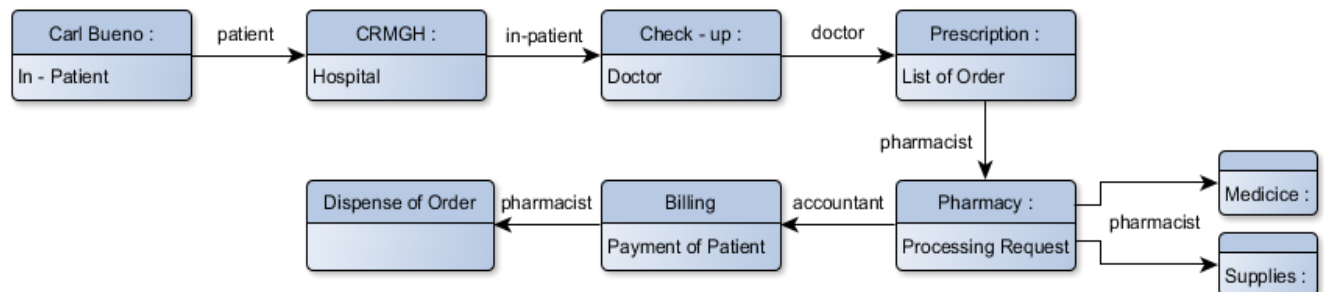
## DEPLOYMENT DIAGRAM



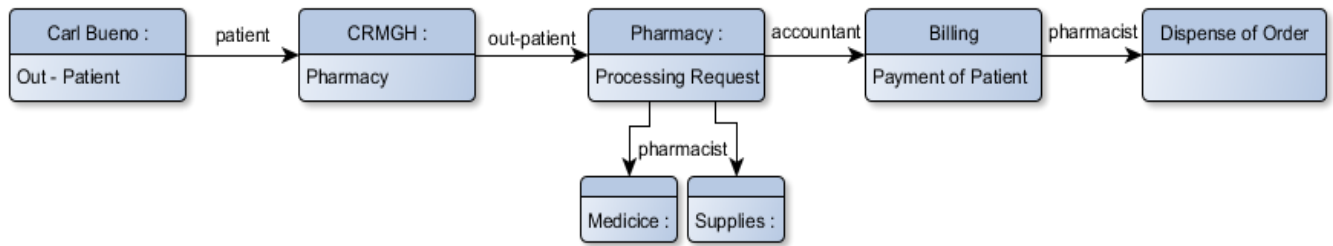
## INTERACTION OVERVIEW DIAGRAM



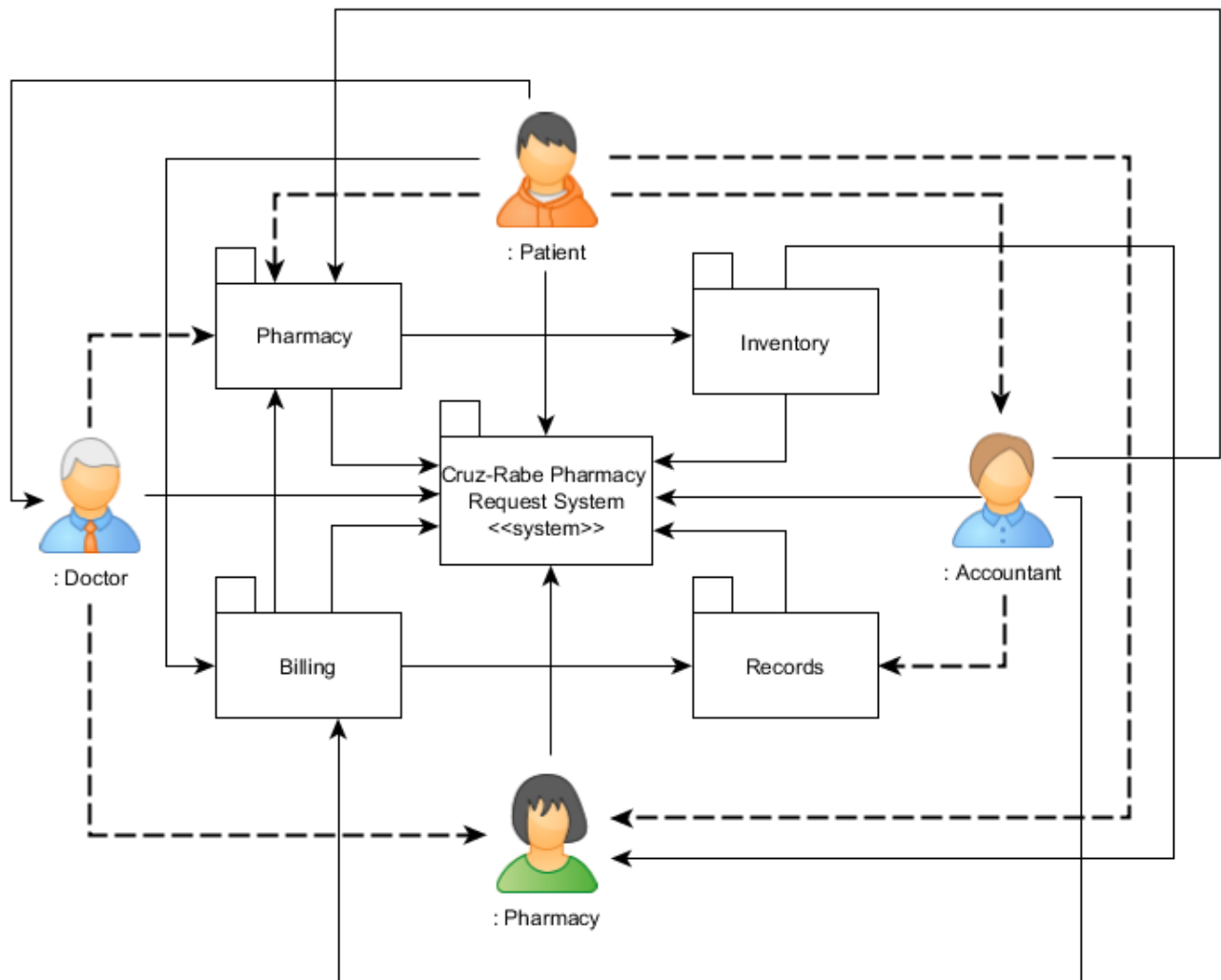
## OBJECT DIAGRAM



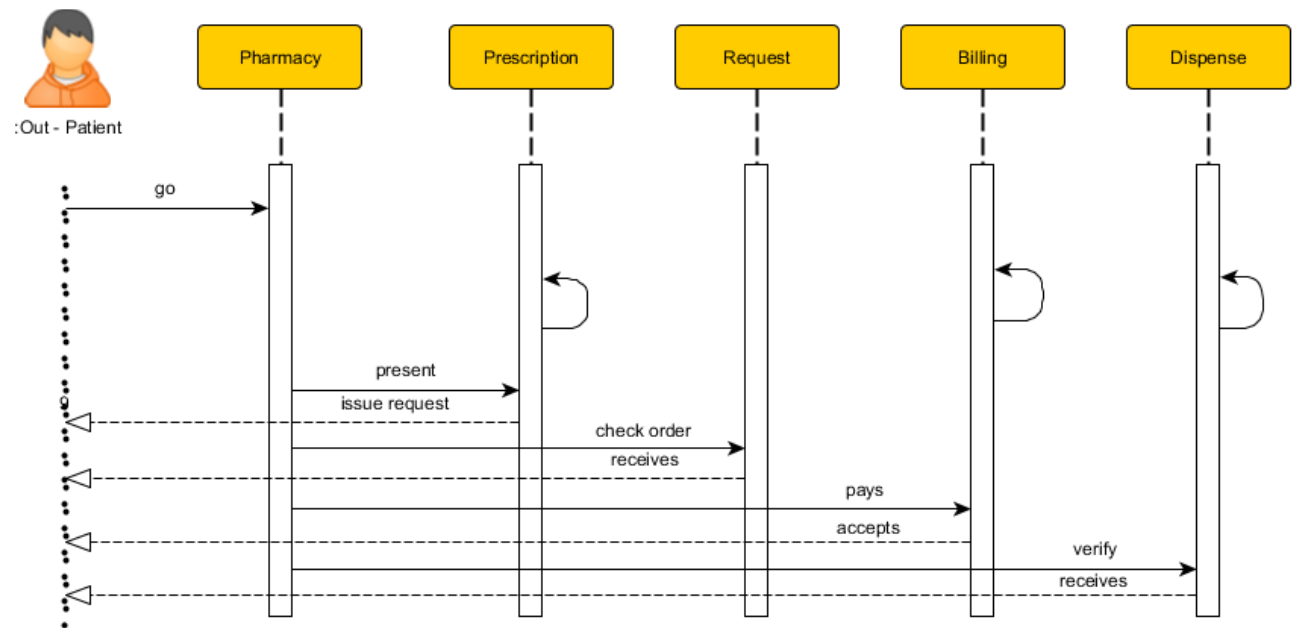
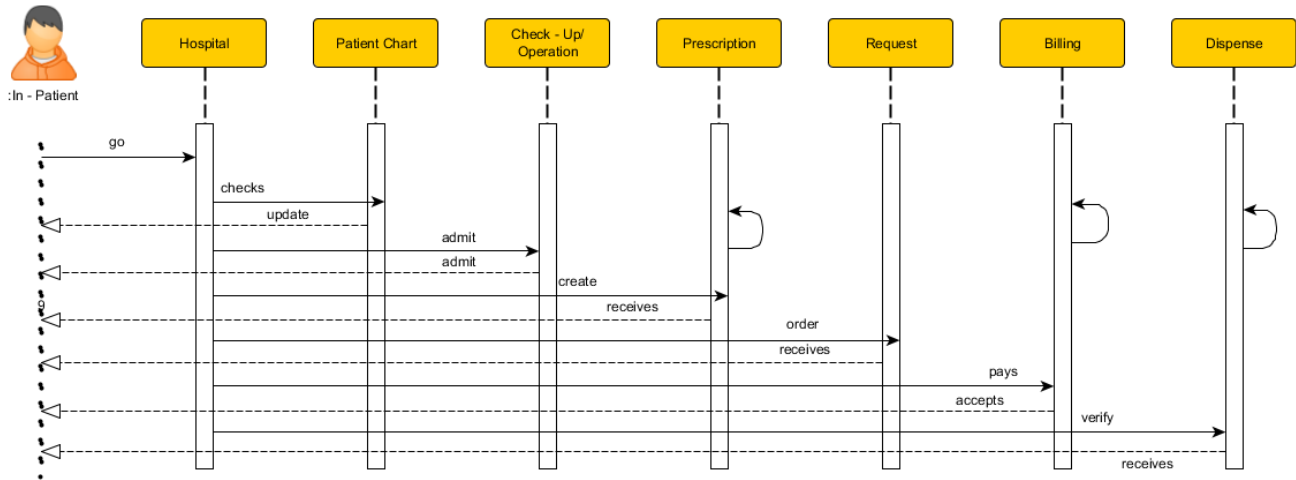




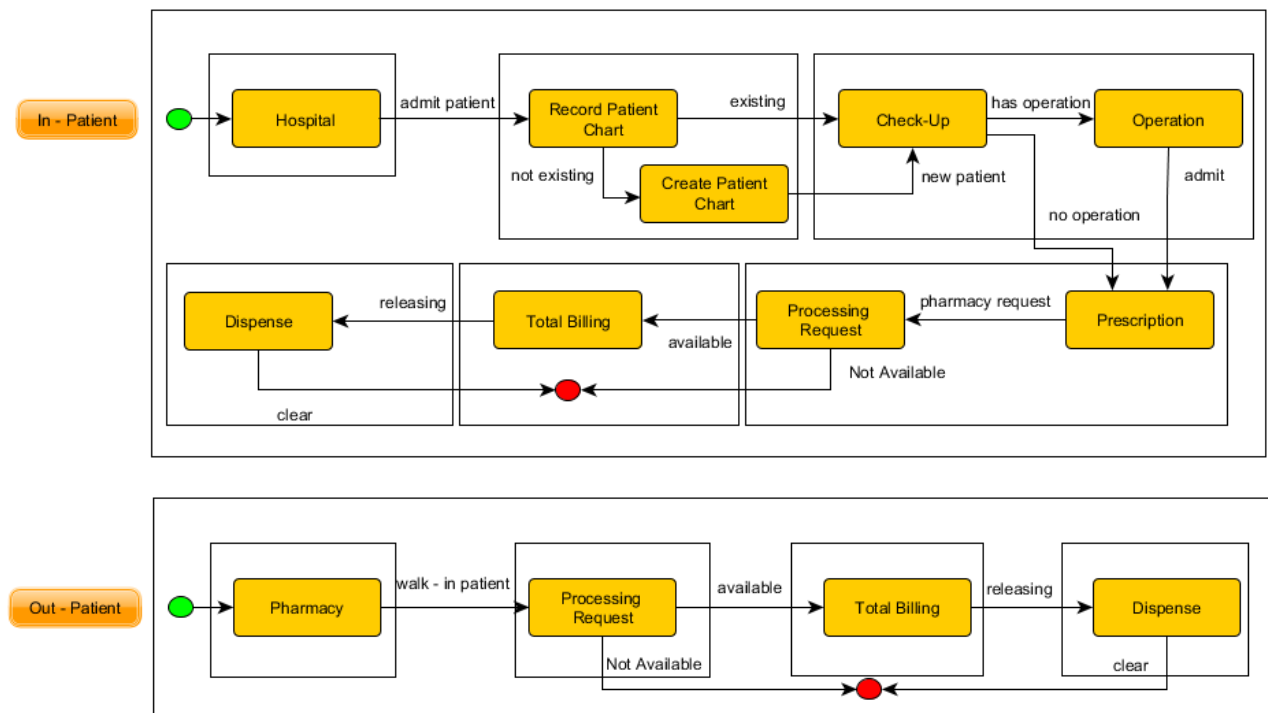
## PACKAGE DIAGRAM



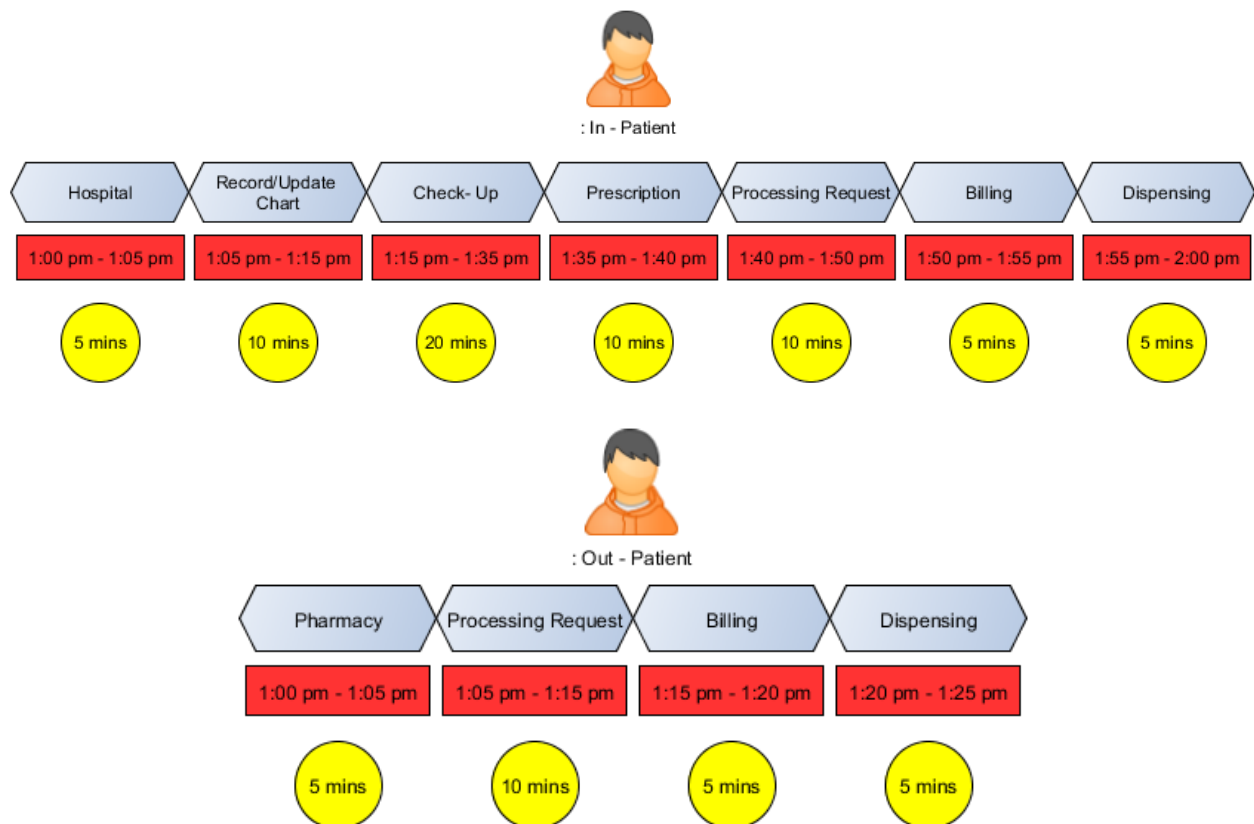
# SEQUENCE DIAGRAM



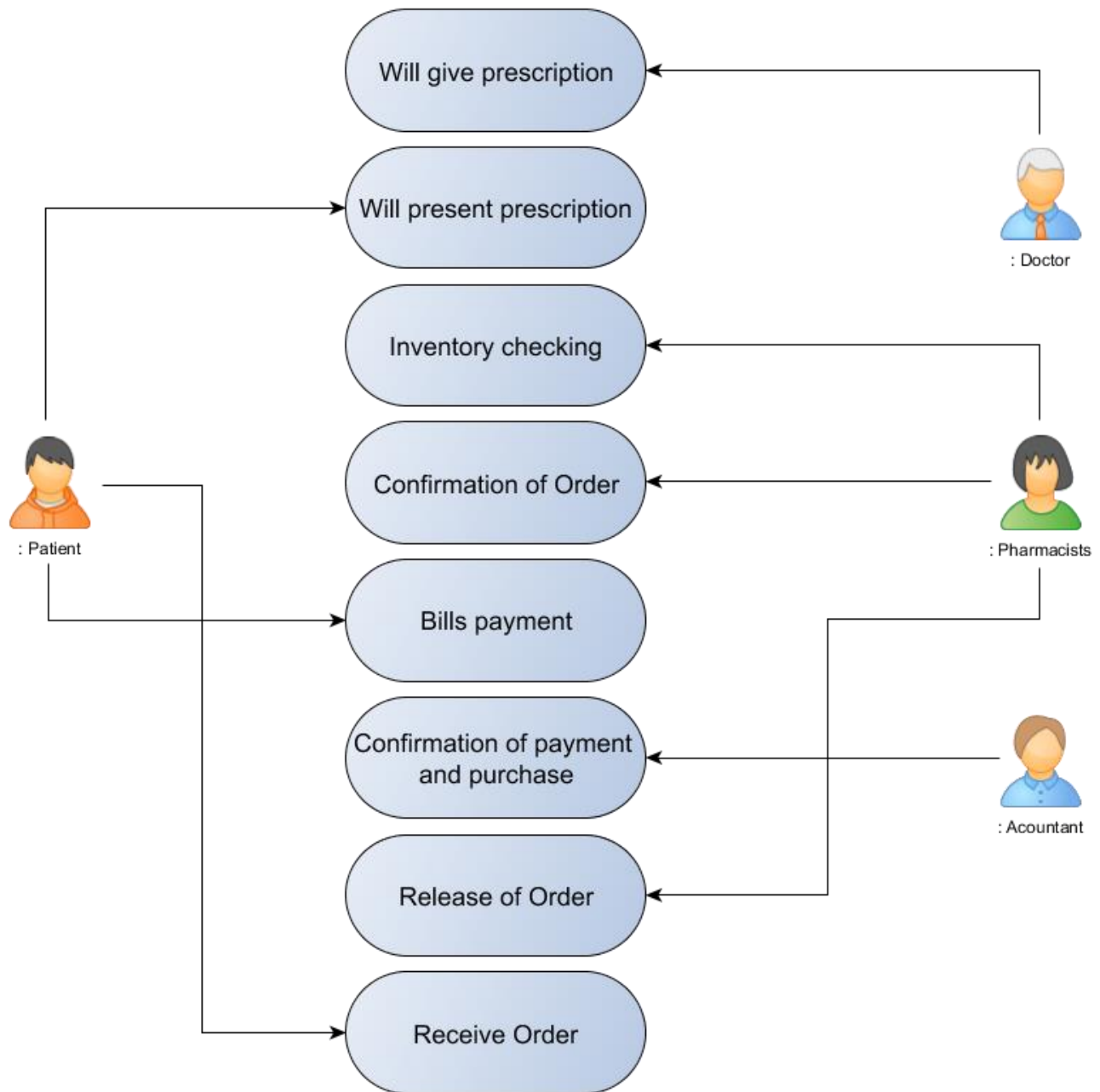
## STATE MACHINE DIAGRAM



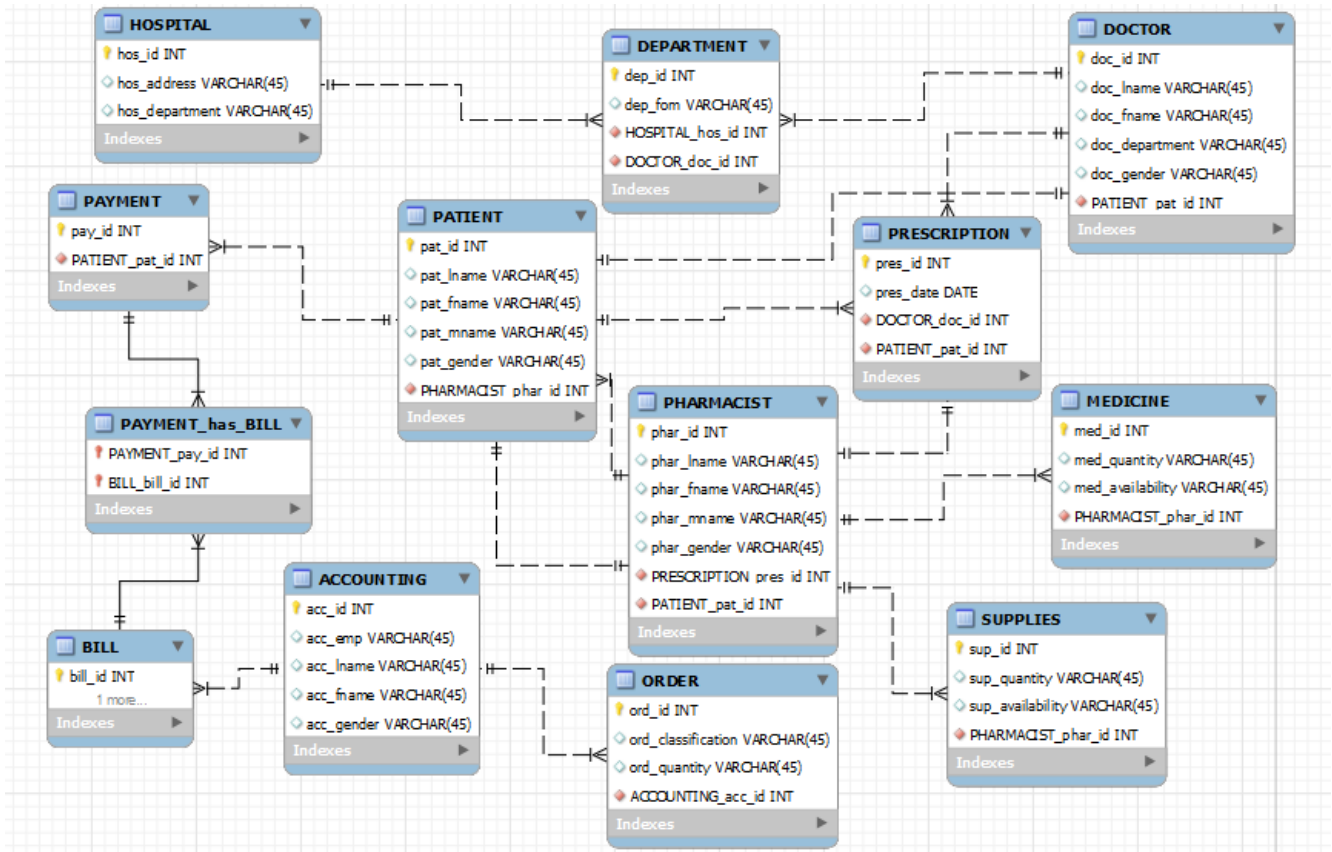
## TIMING DIAGRAM



## USE CASE DIAGRAM



# ENTITY-RELATIONSHIP DIAGRAM



# DATA DICTIONARY

DEPARTMENT					
FIELD NAME	DATA TYPE	FIELD SIZE	KEY	DESCRIPTION	EXAMPLE
dep_id	int		PK	Primary key of Department	1
dep_fom	varchar(45)	45		Department field of medicine	Opthamologist
PAYMENT					
FIELD NAME	DATA TYPE	FIELD SIZE	KEY	DESCRIPTION	EXAMPLE
pay_id	int		PK	Primary key of Payment	1
BILL					
FIELD NAME	DATA TYPE	FIELD SIZE	KEY	DESCRIPTION	EXAMPLE
bill_id	int		PK	Primary key of Bill	1
PATIENT					
FIELD NAME	DATA TYPE	FIELD SIZE	KEY	DESCRIPTION	EXAMPLE
pat_id	int		PK	Primary key of Patient	1
pat_lname	varchar(45)	45		Last name of the patient	Rosales
pat_fname	varchar(45)	45		First name of the patient	Glen Roy
pat_mname	varchar(45)	45		Middle name of the patient	Dela Cruz
pat_gender	varchar(45)	15		Gender of the patient	Male
HOSPITAL					
FIELD NAME	DATA TYPE	FIELD SIZE	KEY	DESCRIPTION	EXAMPLE
hos_id	int		PK	Primary key of Hospital	1
hos_add	varchar(45)	45		Address of Hospital	Taguig City
DOCTOR					
FIELD NAME	DATA TYPE	FIELD SIZE	KEY	DESCRIPTION	EXAMPLE
doc_id	int		PK	Primary key of Doctor	1
doc_lname	varchar(45)	45		Last name of the Doctor	Romeo
doc_fname	varchar(45)	45		First name of the Doctor	Terrence
doc_department	varchar(45)	45		Department of the Doctor	Emergency
doc_gender	varchar(45)	15		Gender of the Doctor	Female

### MEDICINE

FIELD NAME ▾	DATA TYPE ▾	FIELD SIZE ▾	KEY ▾	DESCRIPTION ▾	EXAMPLE ▾
med_id	int		PK	Primary key of Medicine	1
med_quantity	int	100		Quantity of Medicine	22
med_availability	varchar(45)	15		Availability of Medicine	yes

### SUPPLIES

FIELD NAME ▾	DATA TYPE ▾	FIELD SIZE ▾	KEY ▾	DESCRIPTION ▾	EXAMPLE ▾
sup_id	int		PK	Primary key of Supplies	1
sup_quantity	int	100		Quantity of Supplies	22
sup_availability	varchar(45)	15		Availability of Supplies	yes

### ACCOUNTING

FIELD NAME ▾	DATA TYPE ▾	FIELD SIZE ▾	KEY ▾	DESCRIPTION ▾	EXAMPLE ▾
acc_id	int		PK	Primary key of Accounting	1
acc_lname	varchar(45)	45		Last name of Accountant	Pakak
acc_fname	varchar(45)	45		First name of Accountant	Edward
acc_gender	varchar(45)	15		Gender name of Accountant	Male

### PHARMACIST

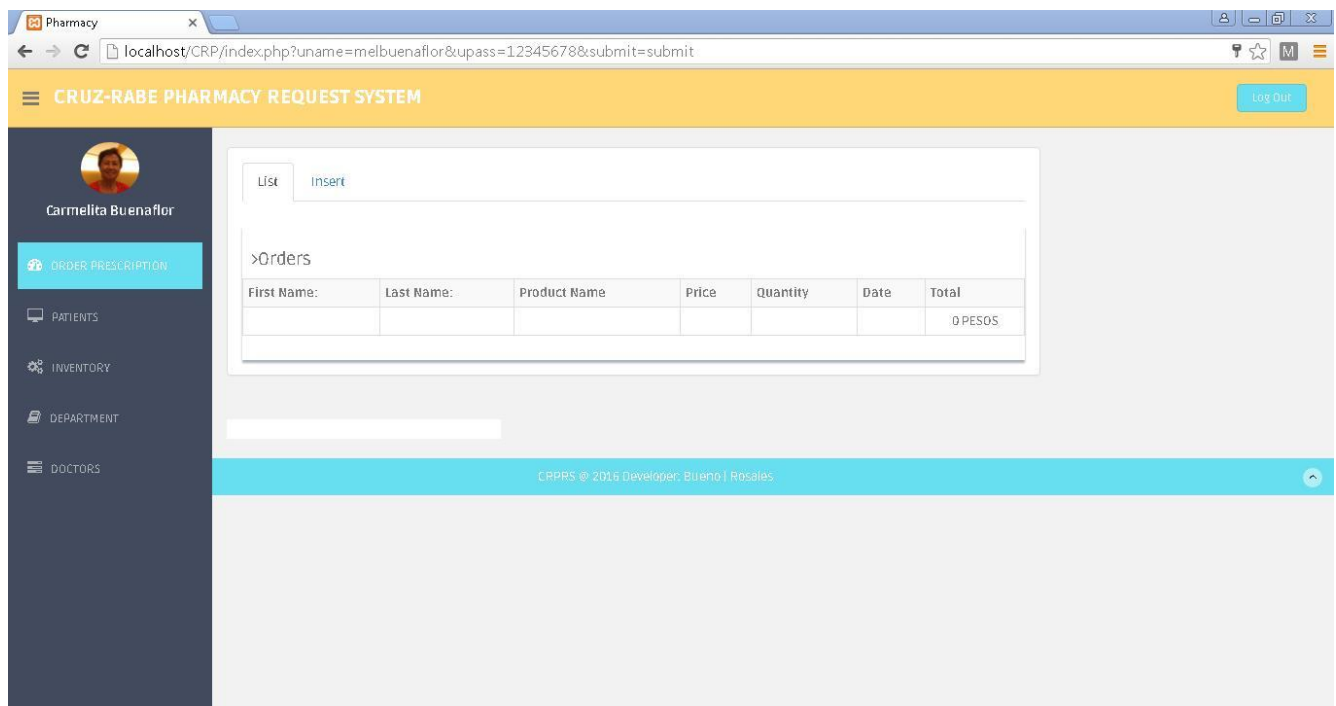
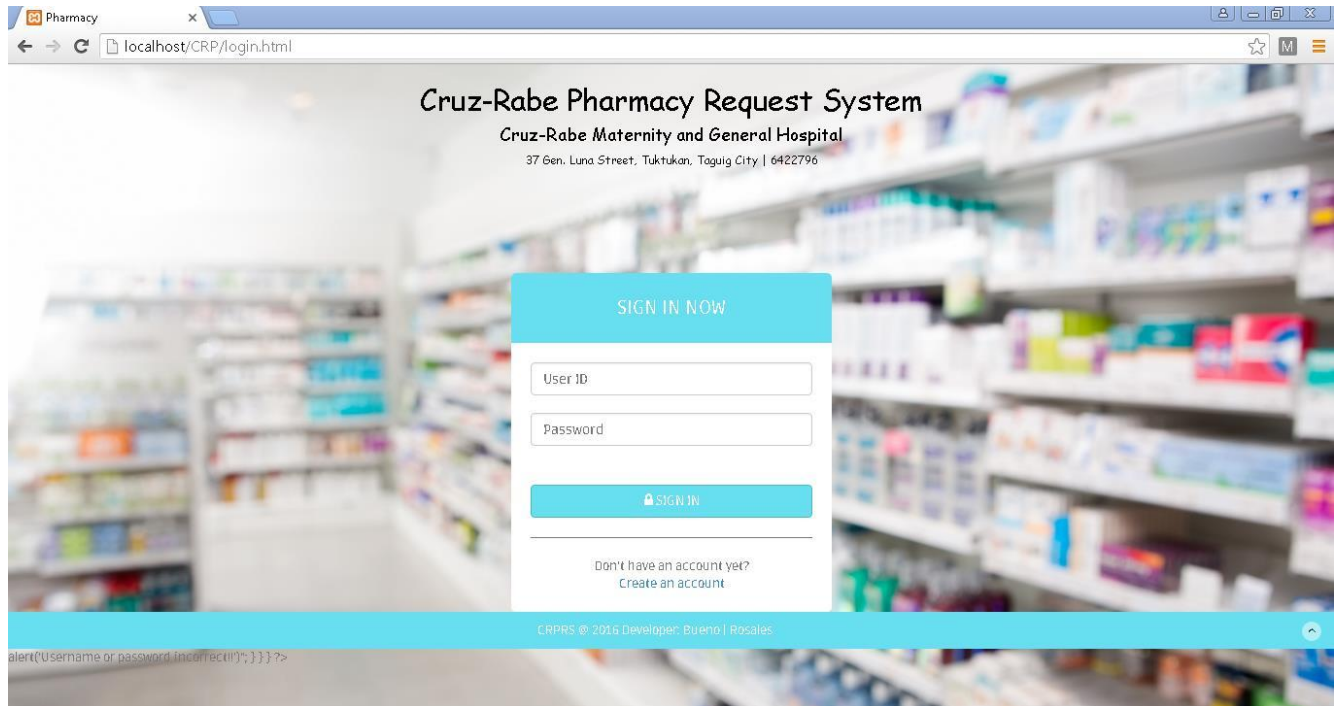
FIELD NAME ▾	DATA TYPE ▾	FIELD SIZE ▾	KEY ▾	DESCRIPTION ▾	EXAMPLE ▾
acc_id	int		PK	Primary key of Pharmacist	1
acc_lname	varchar(45)	45		Last name of Pharmacist	Pakak
acc_fname		45		First name of Pharmacist	Edward
phar_mname	varchar(45)	45		Middle name of the Pharmacist	Bongga
acc_gender	varchar(45)	15		Gender name of Pharmacist	Male

### PRESCRIPTION

FIELD NAME ▾	DATA TYPE ▾	FIELD SIZE ▾	KEY ▾	DESCRIPTION ▾	EXAMPLE ▾
pres_id	int		PK	Primary key of Prescription	1
pres_date	date	15		Date of Prescription	1/1/1990



# PROTOTYPE APPLICATION SCREEN LAYOUT






Pharmacy

localhost/CRP/index.php

☆ M ☰

☰ CRUZ-RABE PHARMACY REQUEST SYSTEM [Log Out](#)



Carmelita Buenaflor

ORDER PRESCRIPTION

PATIENTS

INVENTORY

DEPARTMENT

DOCTORS

List Insert

Orders

First Name:	Last Name:	Product Name	Price	Quantity	Date	Total
Carl Dominique	Bueno	Ascorbic Acid	5.1	2	2016-08-20	10.2 PESOS


CRPRS © 2016 Developer: Bueno | Rosales

Pharmacy

localhost/CRP/index.php?uname=melbuenaflor&upass=123456788&submit=submit

☆ M ☰

☰ CRUZ-RABE PHARMACY REQUEST SYSTEM [Log Out](#)



Carmelita Buenaflor

ORDER PRESCRIPTION

PATIENTS

INVENTORY

DEPARTMENT

DOCTORS

List Insert

Add new Order

OR Code1608210001

Product CodeBR01

Quantity3

Patient ID1

Date2016-08-21

Submit


Pharmacy

localhost/CRP/patient.php

☆ M

CRUZ-RABE PHARMACY REQUEST SYSTEM

Logout



Carmelita Buenaflor

ORDER PRESCRIPTION

PATIENTS

INVENTORY

DEPARTMENT

DOCTORS

> Search Patient

Bueno

1995-09-02

Search

>Patients

Notice: Undefined index: lname in C:\xampp\htdocs\CRP\patient.php on line 192

Notice: Undefined index: bday in C:\xampp\htdocs\CRP\patient.php on line 193

Patient ID	First Name	Last Name	Address	Contact Number	Birthday	Status	Doctor Name	Delete
------------	------------	-----------	---------	----------------	----------	--------	-------------	--------

>Patient information

First Name

Last Name

< August 2016 >

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Special event Regular event


Pharmacy

localhost/CRP/patient.php

☆ M

CRUZ-RABE PHARMACY REQUEST SYSTEM

Logout



Carmelita Buenaflor

ORDER PRESCRIPTION

PATIENTS

INVENTORY

DEPARTMENT

DOCTORS

>Patient information

First Name

Last Name

Contact Number

Address

Birthday

Classification

Carl

Bueno

09366993325

07 Jones, Barangay Kiawa, Taguig City, Manila

1995-09-02

IN

submit

Pharmacy
localhost/CRP/patient.php

CRUZ-RABE PHARMACY REQUEST SYSTEM
Logout

Carmelita Buenaflor
ORDER PRESCRIPTION
PATIENTS
INVENTORY
DEPARTMENT
DOCTORS

> Search Patient

Last name:
yyyy-mm-dd
Search

>Patients

Patient ID	First Name:	Last Name:	Address	Contact Number	Birthday	Status	Doctor Name	Delete
2	Carl	Bueno	09366993325	Taguig City	1995-09-02	IN	Dr.Dela Cruz	DELETE

>Patient information

First Name:

Last Name:

Contact Number:

August 2016

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Special event
Regular event

Pharmacy
localhost/CRP/inventory.php

CRUZ-RABE PHARMACY REQUEST SYSTEM
Logout

Carmelita Buenaflor
ORDER PRESCRIPTION
PATIENTS
INVENTORY
DEPARTMENT
DOCTORS

Medicine/Supplies
List
Insert

>Inventory

Quantity	Code	Name	Description	Price	Expiry Date	Date shipped	Update	Delete
20	BR01	Paracetamol/Acevon	500 mg/Analgesic	3	2018-12-01	2016-01-01	UPDATE	DELETE
15	BR02	Omeprazole/Inhibita	Proton Pump Inhibitor	38.75	2019-01-01	2016-01-01	UPDATE	DELETE
45	BR03	Neurobion Tablet	Vitamins B1 + B6 + B12	9.5	2017-08-31	2016-01-01	UPDATE	DELETE
50	BR04	HCl Paracetamol/Neozep Forte	10 mg/2 mg/500 mg Tablet	11.3	2017-08-01	2016-01-01	UPDATE	DELETE
100	BR05	Ascorbic Acid	500 mg/Vitamin	5.1	2019-01-31	2016-01-01	UPDATE	DELETE
30	BR06	Naproxen/Flanax Forte	550 mg Tablet	17.5	2018-01-31	2016-01-01	UPDATE	DELETE
10	BR07	Salbutamol/Salbumin/Bronchodilator	100 mcg/dose/Metered Dose Inhaler	485	2020-01-31	2016-01-01	UPDATE	DELETE

Pharmacy
localhost/CRP/inventory.php

CRUZ-RABE PHARMACY REQUEST SYSTEM
Logout

Carmelita Buenaflor

ORDER PRESCRIPTION
PATIENTS
INVENTORY
DEPARTMENT
DOCTORS

Medicine/Supplies
List
Insert

>Medicine
BR03
Search

>Inventory

Quantity	Code	Product Name	Description	Price	Delete
45	BR03	Neurobion Tablet	Vitamins B1 + B6 + B12	9.5	DELETE

Pharmacy
localhost/CRP/inventory.php

CRUZ-RABE PHARMACY REQUEST SYSTEM
Logout

Carmelita Buenaflor

ORDER PRESCRIPTION
PATIENTS
INVENTORY
DEPARTMENT
DOCTORS

Medicine/Supplies
List
Insert

Add new Medicine

Code
BR03

Product Name
Neurobion Tablet

Description
Vitamins B1 + B6 + B12

Price
9.50

Expiry date
2017-08-31

Shipment date
2016-01-01

Quantity
45

Submit

Pharmacy
localhost/CRP/department.php

CRUZ-RABE PHARMACY REQUEST SYSTEM
Logout

ORDER PRESCRIPTION
PATIENTS
INVENTORY
DEPARTMENT
DOCTORS

### > Departments

Code	Name	Description	Delete
ANT	Anaesthesiologist	MD	DELETE
EENT	EENT	MD	DELETE
GS	General Surgeon	MD	DELETE
MDO	Medico	MD	DELETE
OBG	Ob Gynecologist	MD	DELETE
OPT	Ophthalmologist	MD	DELETE
PD	Pediatrician	MD	DELETE
URO	Urology	MD	DELETE

### > Department information

Code
Name

August 2016

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Special event
Regular event

localhost/CRP/insdept.php
localhost/CRP/insdept.php?dcode=OBG&dname=Ob+Gynecologist&ddesc=MD&submit=Submit

CRUZ-RABE PHARMACY REQUEST SYSTEM
Logout

ORDER PRESCRIPTION
PATIENTS
INVENTORY
DEPARTMENT
DOCTORS

localhost says:  
Insert Successful!
OK

### > Departments

Code	Name	Description	Delete

### > Department information

Code: OBG
Name: Ob Gynecologist
Description: MD
Submit

August 2016

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Special event
Regular event


Pharmacy

localhost/CRP/doctors.php

☆ M ≡

CRUZ-RABE PHARMACY REQUEST SYSTEM

Logout



Carmelita Buenaflor

ORDER PRESCRIPTION

PATIENTS

INVENTORY

DEPARTMENT

DOCTORS

ID	First Name	Last Name	Contact Number	Field	Department	Delete
1	Geraldine Elizabeth	Palma,	9053477922	OB Gyne	Ob Gynecologist	DELETE
2	John	Sasin	9199273648	Anaesthesiologist	Anaesthesiologist	DELETE
3	Jose	Rabe	9263288912	EENT	EENT	DELETE
4	Manuel	Solve	9212334459	General Surgeon	General Surgeon	DELETE
5	Antonio	Rebosa	9991290234	Medico	Medico	DELETE
6	Victoriano	Perlas	9773244561	Ophthalmologist	Ophthalmologist	DELETE
7	Pascual	Pattauli	9091256912	Pediatrician	Pediatrician	DELETE
8	Prudencio	Pahunan II	99951723216	Urology	Urology	DELETE

> Doctors information

First Name

Last Name

< August 2016 >

Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 7

8 9 10 11 12 13 14

15 16 17 18 19 20 21

22 23 24 25 26 27 28

29 30 31

Special event Regular event


Pharmacy

localhost/CRP/doctors.php

☆ M ≡

CRUZ-RABE PHARMACY REQUEST SYSTEM

Logout



Carmelita Buenaflor

ORDER PRESCRIPTION

PATIENTS

INVENTORY

DEPARTMENT

DOCTORS

ID	First Name	Last Name	Contact Number	Field	Department	Delete
1	Geraldine Elizabeth	Palma,	9053477922	OB Gyne	Ob Gynecologist	DELETE
2	John	Sasin	9199273648	Anaesthesiologist	Anaesthesiologist	DELETE
3	Jose	Rabe	9263288912	EENT	EENT	DELETE
4	Manuel	Solve	9212334459	General Surgeon	General Surgeon	DELETE
5	Antonio	Rebosa	9991290234	Medico	Medico	DELETE
6	Victoriano	Perlas	9773244561	Ophthalmologist	Ophthalmologist	DELETE
7	Pascual	Pattauli	9091256912	Pediatrician	Pediatrician	DELETE
8	Prudencio	Pahunan II	99951723216	Urology	Urology	DELETE

> Doctors information

First Name

Last Name

< August 2016 >

Mon Tue Wed Thu Fri Sat Sun

1 2 3 4 5 6 7

8 9 10 11 12 13 14

15 16 17 18 19 20 21

22 23 24 25 26 27 28

29 30 31

Special event Regular event

# SQL DATABASE SCREENSHOT

The screenshot shows the phpMyAdmin interface for the 'cpr' database. The left sidebar displays the database structure, including 'bills', 'department', 'doctors', 'medicine', 'patient', and 'user'. The main panel shows the 'Structure' tab for the 'cpr' database, listing 6 tables with their respective actions, rows, types, collations, sizes, and overheads.

Table	Action	Rows	Type	Collation	Size	Overhead
bills	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	48 KiB	-
department	Browse Structure Search Insert Empty Drop	8	InnoDB	latin1_swedish_ci	16 KiB	-
doctors	Browse Structure Search Insert Empty Drop	8	InnoDB	latin1_swedish_ci	32 KiB	-
medicine	Browse Structure Search Insert Empty Drop	7	InnoDB	latin1_swedish_ci	16 KiB	-
patient	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	32 KiB	-
user	Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	16 KiB	-
6 tables	Sum	29	InnoDB	latin1_swedish_ci	160 KiB	0 B

Below the table list, there is a 'Create table' section with a 'Name' field and a 'Number of columns' field set to 4. A 'Go' button is located at the bottom right of this section.

The screenshot shows the phpMyAdmin interface for the 'bills' table. The left sidebar displays the database structure, including 'bills', 'department', 'doctors', 'medicine', 'patient', and 'user'. The main panel shows the 'Structure' tab for the 'bills' table, displaying the table structure with columns, their types, collations, attributes, null values, defaults, and extra options. Below the table structure, there is an 'Information' section showing space usage and row statistics.

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	OR_code	char(10)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
2	med_code	char(10)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
3	quantify	double			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
4	pat_id	int(11)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
5	bp_date	date			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values More

Below the table structure, there is an 'Information' section showing space usage and row statistics.

Space usage		Row statistics	
Data	16 KiB	Format	compact
Index	32 KiB	Collation	latin1_swedish_ci
Total	48 KiB	Creation	Aug 20, 2016 at 05:03 PM



localhost / 127.0.0.1 / cpr

localhost/phpmyadmin/tbl\_structure.php?db=cpr&table=department&token=f8b10e885a2c8cb4cabb19b11c80c38d

Server: 127.0.0.1 - Database: cpr - Table: department

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	dept_code	char(5)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
2	dept_name	varchar(45)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
3	dept_desc	varchar(45)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Print view Propose table structure Track table Move columns Improve table structure

Add 1 column(s) after dept\_desc Go

+ Indexes

Information

Space usage		Row statistics	
Data	16 KiB	Format	Compact
Index	0 B	Collation	latin1_swedish_ci
Total	16 KiB	Creation	Aug 20, 2016 at 04:26 PM

Console

localhost / 127.0.0.1 / cpr

Project - Cruz-Rabe Pharm Doctors.Insert\_zpse305p0 seans880/Group-2

localhost/phpmyadmin/tbl\_structure.php?db=cpr&table=doctors&token=f8b10e885a2c8cb4cabb19b11c80c38d

Server: 127.0.0.1 - Database: cpr - Table: doctors

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	doc_id	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	doc_fname	varchar(45)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
3	doc_lname	varchar(45)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
4	doc_cont	double			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
5	doc_field	varchar(45)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
6	dept_code	char(5)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Print view Propose table structure Track table Move columns Improve table structure

Add 1 column(s) after dept\_code Go

+ Indexes

Information

Space usage		Row statistics	
Data	16 KiB	Format	Compact
Index	16 KiB	Collation	latin1_swedish_ci
Total	32 KiB	Next autoindex	17
		Creation	Aug 20, 2016 at 04:26 PM

Console



localhost / 127.0.0.1 / cpr x Project - Cruz-Rabe Pham x DoctorsInsert\_zpse305p x seans888/Group-2

localhost/phpmyadmin/tbl\_structure.php?db=cpr&table=medicine&token=f8b10e885a2c8cb4cabb19b11c80c38d

phpMyAdmin

Recent Favorites

New

- cpr
  - New
  - bills
  - department
  - doctors
  - medicine
  - patient
  - user
- information\_schema
- mysql
- performance\_schema
- phpmyadmin
- test

Server: 127.0.0.1 Database: cpr Table: medicine

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	med_qty	double			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
2	med_code	char(10)			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
3	med_name	varchar(45)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
4	med_desc	varchar(45)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
5	med_price	double			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
6	med_exp	date			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More
7	med_ship	date			No	None		Change Drop Primary Unique Index Spatial Fulltext Distinct values More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Print view Propose table structure Track table Move columns Improve table structure

Add 1 column(s) after med\_ship Go

+ Indexes

Information

Space usage		Row statistics	
Data	16 KiB	Format	Compact
Index	0 B	Collation	latin1_swedish_ci
Total	16 KiB	Creation	Aug 20, 2016 at 04:26 PM

Console

localhost / 127.0.0.1 / cpr x Project - Cruz-Rabe Pham x DoctorsInsert\_zpse305p x seans888/Group-2

localhost/phpmyadmin/tbl\_structure.php?db=cpr&table=patient&token=f8b10e885a2c8cb4cabb19b11c80c38d

phpMyAdmin

Recent Favorites

New

- cpr
  - New
  - bills
  - department
  - doctors
  - medicine
  - patient
  - user
- information\_schema
- mysql
- performance\_schema
- phpmyadmin
- test

Server: 127.0.0.1 Database: cpr Table: patient

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	pat_id	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial Fulltext More
2	pat_fname	varchar(45)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
3	pat_lname	varchar(45)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
4	pat_addr	varchar(45)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
5	pat_cont	varchar(15)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More
6	pat_class	varchar(45)			No	None		Change Drop Primary Unique Index Spatial Fulltext More
7	pat_bday	date			No	None		Change Drop Primary Unique Index Spatial Fulltext More
8	doc_id	int(11)			Yes	NULL		Change Drop Primary Unique Index Spatial Fulltext More

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Print view Propose table structure Track table Move columns Improve table structure

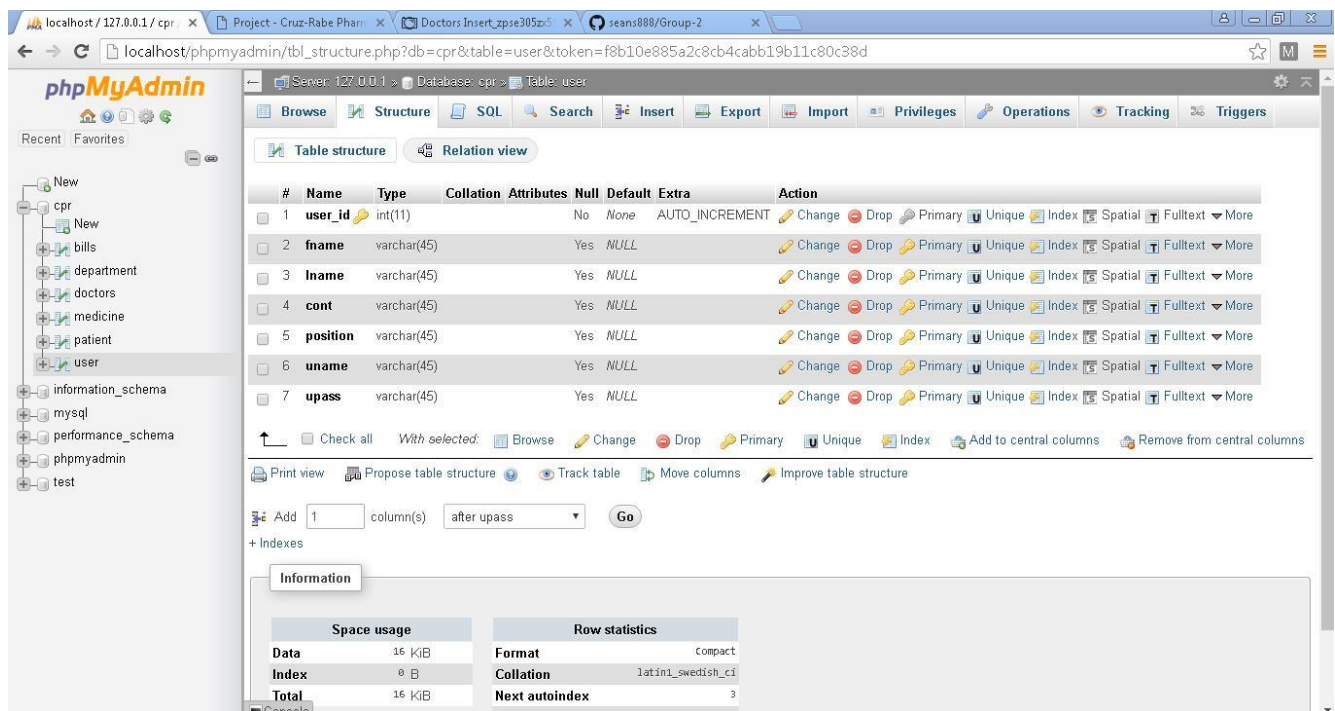
Add 1 column(s) after doc\_id Go

+ Indexes

Information

Space usage		Row statistics	
Data	16 KiB	Format	Compact
Index	16 KiB	Collation	latin1_swedish_ci

Console



## Reference/s:

- [http://projects2.apc.edu.ph/wiki/index.php/Project\\_-\\_Cruz-Rabe\\_Pharmacy\\_Request\\_System\\_%28CR-PRS%29\\_-106](http://projects2.apc.edu.ph/wiki/index.php/Project_-_Cruz-Rabe_Pharmacy_Request_System_%28CR-PRS%29_-106)
- <http://github.com>
- <http://moodle2.apc.edu.ph>
- <http://email.apc.edu.ph>
- <http://localhost/phpmyadmin>
- <http://localhost/CRP>
- <http://doh.gov.ph>
- [http://www.omnicell.com/About\\_Omnicell.aspx](http://www.omnicell.com/About_Omnicell.aspx)
- <https://www.pioneerx.com/web/pioneerx>

## **CARL DOMINIQUE P. BUENO**

07 Jones Street, Wawa, Taguig City  
cpbueno@student.apc.edu.ph  
+639366993325

---



### **Education Background:**

June 2012 – Present

#### **Asia Pacific College**

#3 Humabon Place, Magallanes, Makati City  
*Bachelor of Science in Information and Technology Major  
in Mobile and Internet Technology*

June 2008 – March 2012

#### **Senator Renato Companero Cayetano Memorial Science and Technology High School**

31st cor 51st Sts. Pamayanang Diego Silang, Ususan,  
Taguig City

June 2002 – March 2008

#### **Pillar of Truth Educational Foundation Inc.**

1632 M.L. Quezon Street, Taguig City

### **Organizations:**

2014

#### **Philippine Red Cross**

Asia Pacific College  
*Officer*

2012

#### **Junior Philippine Computer Society**

Asia Pacific College  
*Member*

2010

#### **Philippine Robotics Club**

SRCCMSTHS  
*Member*

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0997-206-5165



---

### **Educational Background:**

June 2013 – Present

#### **Asia Pacific College**

#3 Humabon Place, Magallanes, Makati City

*Bachelor of Science in Information and Technology Major  
in Mobile and Internet Technology*

June 2009 – March 2013

#### **Fort Bonifacio High School**

J.P Rizal Ext., West Rembo, Makati City

June 2003 – March 2009

#### **Fort Bonifacio Elementary School**

J.P Rizal Ext., West Rembo, Makati City

### **Organizations:**

2015 – 2016

#### **The Good People of Society**

*Former President/Member*