

Ahsanullah University of Science and Technology Department of Computer Science & Enineering

DATABASE LAB CSE - 3104

Final Project Report

Project Title

Submitted by

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October 16, 2019

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1 Introduction

Nowadays, Pharmacy management system is one of the most essential tools that are mostly used in medical store in Bangladesh, it is mostly used to manage pharmacy related activities such as medical inventory, record keeping, sales management as well as managing the drug stock and information of the expired medicines. But many pharmacies in Bangladesh are still operating manually, they don't have adequate software to manage their daily activities. It needs the pharmacist assistant to check the expired date of the medicine twice a week, and it can take a lot of time to find out whether certain medicine are out of stock. In this project we tried to develop a computerised and web based Pharmacy management system. Our main intention is to allow this application to be used in most retailing pharmacies in Bangladesh, where a small point of customization will be required to each pharmacy in the implementation period. This system is designed to overcome all challenges related to the management of medicine that were used to be handled locally and manually. Pharmacy management system has its own significance to the retail pharmacy shops. Using this system, it will help us to records all transaction made at the daily sales, recognize all debtors, customers, employees, balance stock, etc. It will manage all activities around the shop that increases productivity and maximize profit, it will also minimizing the risk of getting loss because all transactions are recorded to the system. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

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2 Objective

Our objective of this pharmacy management system is to improve the accuracy, enhance safety and efficiency in the pharmaceutical store. It is a computer based system which helps the pharmacist to improve inventory management, cost, medical safety etc. Pharmacy management was developed to ensure the security of information and reliability of Pharmacy record when accessing and providing services to the customers. This Project is insight into the design and implementation of a Pharmacy management system. The primary aim of is to improve accuracy and enhance safety and efficiency in the pharmaceutical store. Today management is one of the most essential features of all form. Management provides sophistication to perform any kind of task in a particular form. This pharmacy manage, it is used to manage most pharmacy related activities in pharmacy. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

3 Entity-Relationship Diagram

3.1 Entity and its attributes

3.1.1 Entity-01: Medicine

I. M.Id - Primary Key

II. Name

III. Type

IV. Weight

V. C.Id -Foreign key

VI. G.Id -Foreign key

3.1.2 Entity-02: Company

I. C.Id - Primary Key

II. Name

III. Contact Number

IV. Address

3.1.3 Entity-03: System User

I. U.ld - Primary Key

II. User Name

III. User Password

IV. User Role

V. Address

VI. Phone

3.1.4 Entity-04: Purchase

I. P.Id - Primary Key

II. M.Id - Foreign Key

III. Selling Price

IV. Cost Price

VI. Quantity

3.1.5 Entity-05: Selling Details

I. S.Id - Primary Key

II. U.Id - Foreign Key

III.Customer Name

IV. Selling Date

V.Total Price

3.1.6 Entity-06: Generic

I.G.Id

II.Category

III.Uses

3.1.7 Entity-07: Inventory

I. I.Id - Primary Key

II. M.Id - Foreign Key

III. Stock IV. Expire Date

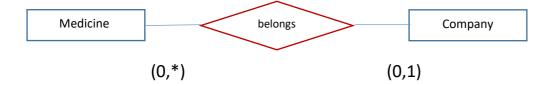
3.1.8 Entity-08: Buying Details

I. B.Id - Primary Key
II. U.Id - Foreign Key
III.P.Id - Foreign Key
IV. Status
V. Purchase Date

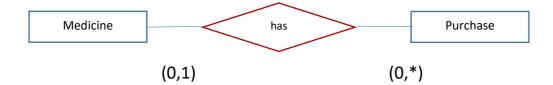
3.2 **Relationship**

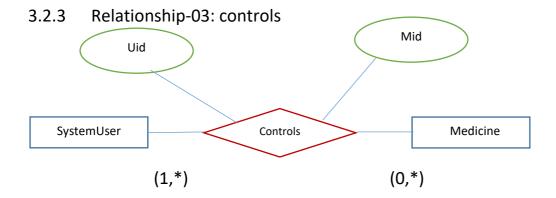
The following relations will be shown in our entity-relation diagram.

3.2.1 Relationship-01: belongs

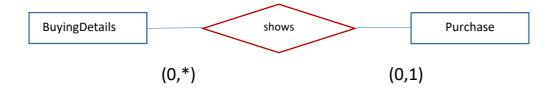


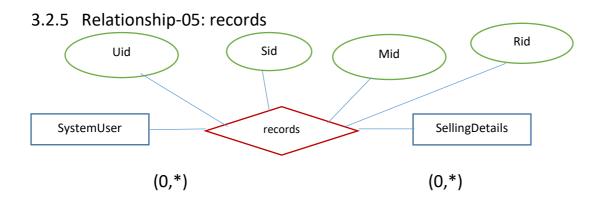
3.2.2 Relationship-02: has



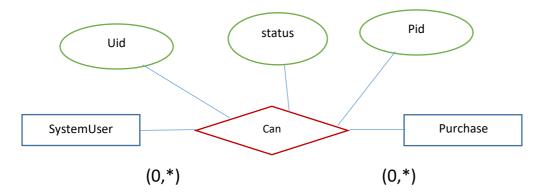


3.2.4 Relationship-04: shows





3.2.6 Relationship-06: can



3.2.7 Relationship-07: access



3.2.8 Relationship-08: updates



3.2.9 Relationship-09: contains



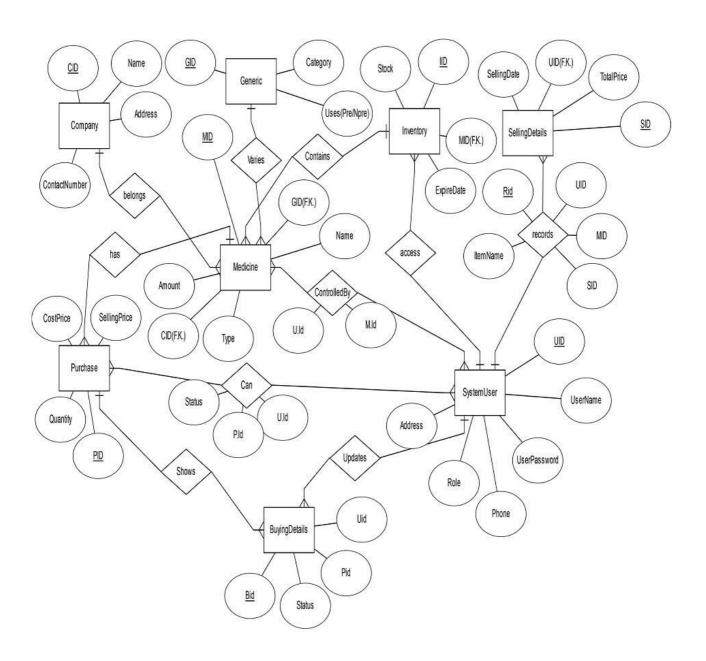
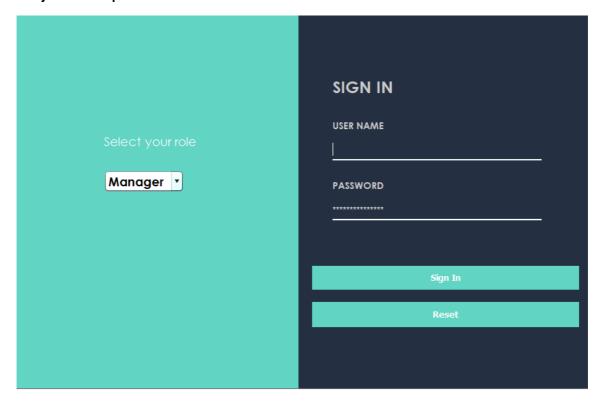
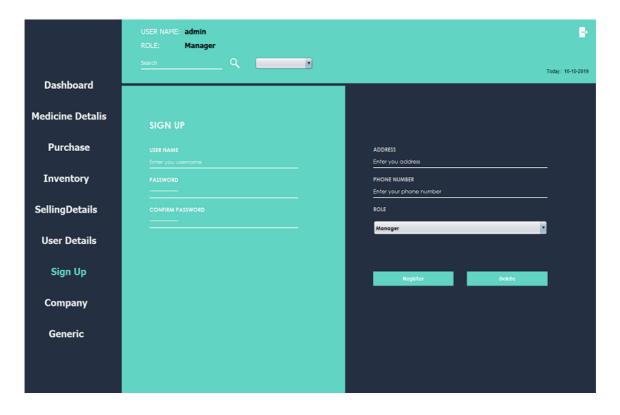


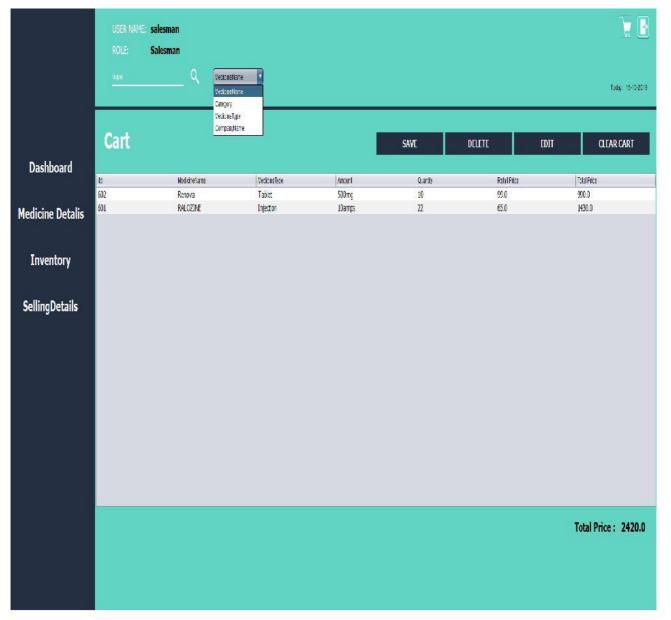
Figure 1: E-R diagram of a Pharmacy Management System

4 Project Snapshot



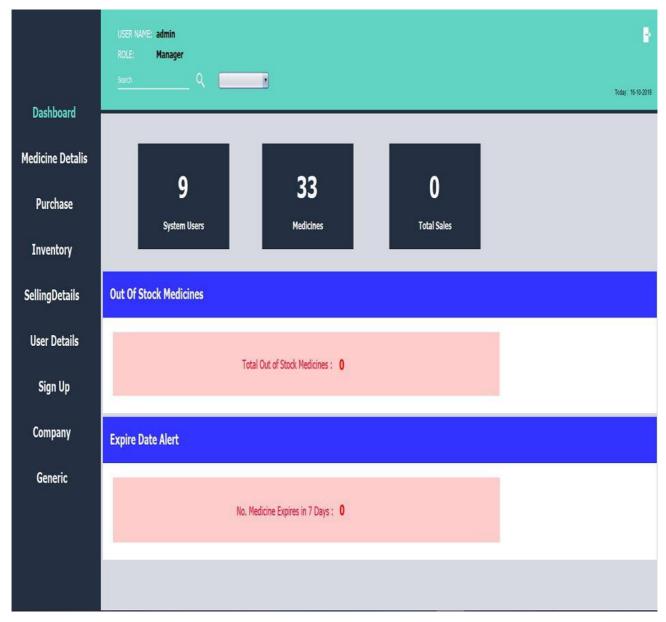


4.1 Snapshot of Cart Panel



This project has search options with multiple categories and cart option to confirm the order.

4.2 Snapshot of Dashboard Panel



This panel will show summery of data of connected database. Number of users, number of medicine, number of sales. This panel will also show the number of stock out medicine and will alert user before 7 days of expire date. This panel is same for both manager and salesman.

Sign Up

Company

Generic

2024

2025

2026

2027

2028

2029

2030

2031

2032

2033

2034

2035

CALPIN

CAB

DIPLOR

EMLON

HIPRE

MONATE

RALOZINE

OPAGREL

LIPIRED

MONOTRATE

DOPAMINE-ROTEX

AMLOPIN

Tablet

Tablet

Tablet

Tablet

Tablet

Tablet

Tablet

Suspension

Injection

Tablet

Tablet

Capsule

UPDATE MEDICINE

Orion Pharma Limited

Orion Pharma Limited

Incepta Pharmaceuticals Ltd.

Opsonin Pharma Limited

APEX PHARMA LIMITED

Beximco Pharmaceuticals Limited

Incepta Pharmaceuticals Ltd.

Orion Pharma Limited

ADEV DUADMA LIMITED

APCPharma

DELETE MEDICINE

ACI

Jayson

Magnesium hydroxide

Allergic disorders

Magnesium hydroxide

GASTRO-INTESTINAL

Magnesium hydroxide

Sodium alginate chewable

Magnesium hydroxide

Endocrine

Anesthetics

Endocrine

Endocrine

Sodium alginate chewable

USER NAME: admin Manager MedicineName 🔻 Today: 16-10-2019 Dashboard MedicineType CompanyName MedicineName Category 1001 500mg Paracetamol Tablet Beximco Pharmaceuticals Limited 1002 Tablet Square Pharmaceuticals Ltd Rabeca 20mg Rabeprazol **Medicine Detalis** 1003 Algicid 500mg Sodium alginate chewable Tablet Incepta Pharmaceuticals Ltd. 1004 Ribacid 250mg Magnesium hydroxide Tablet APEX PHARMA LIMITED Paracetamol 1005 Tablet Renova 500mg Opsonin Pharma Limited 2010 **APEDROX** 200ml GASTRO-INTESTINAL Suspension APCPharma **Purchase** 2011 **AVLOCID** Plus 400mg GASTRO-INTESTINAL Suspension Renata 2012 ANCIDPLUS 200ml GASTRO-INTESTINAL Suspension 2013 ANOLOL Anti-rheumatic Tablet Euro Pharma 50mg Inventory 2014 APICARD 50mg Anti-rheumatic Tablet APCPharma 2015 ATIN 50mg Rabeprazol Tablet Jayson BISOCOR Tablet 2016 10mg Anti-rheumatic Jayson **SellingDetails** 2017 BISOLOC 5mg Rabeprazol Tablet Square Pharmaceuticals Ltd Square Pharmaceuticals Ltd 2018 Tablet ETNOL 50mg Endocrine 2019 LONET 100mg Endocrine Tablet Beximco Pharmaceuticals Limited 2020 HYPEN 1.5mg Sodium alginate chewable Tablet Beximco Pharmaceuticals Limited **User Details** 2021 Tablet TRTI TX Endocrine Renata 20mg 2022 REPRESS 10 amps Vaccine Injection Incepta Pharmaceuticals Ltd. 2023 CALPRESS 10mg Anesthetics Tablet Opsonin Pharma Limited

5MG

10ma

5mg

5mg

10mg

10mg

50mg

40mg

10amps

50mg

15mg

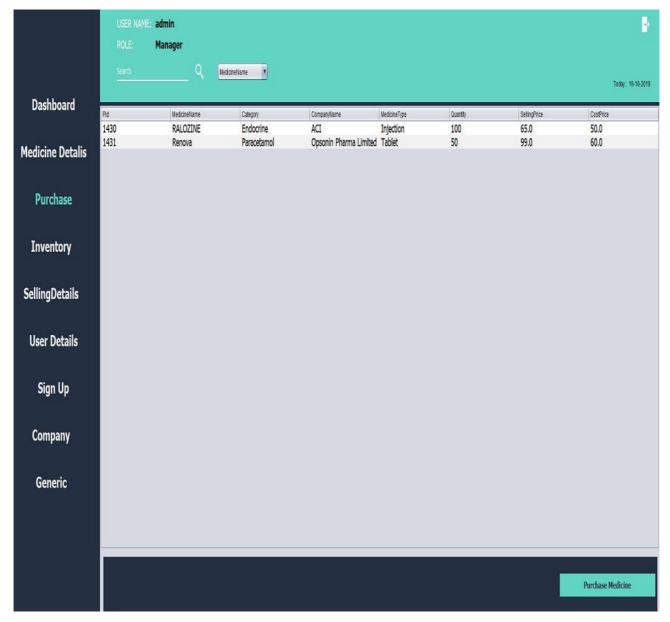
200mg

4.3 Snapshot of medicine Details Panel

This panel will show the data of Medicine, Generic, Company table. Manager can insert, update, delete and salesman can only see the details.

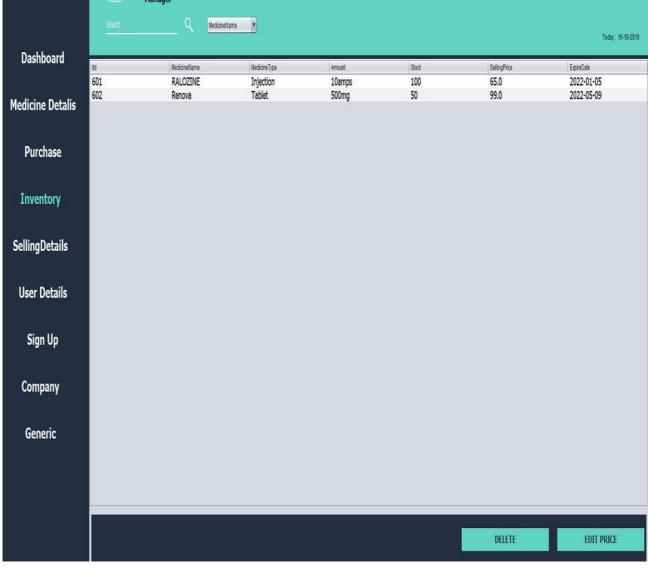
ADD MEDICINE

4.4 Snapshot of Purchase Panel



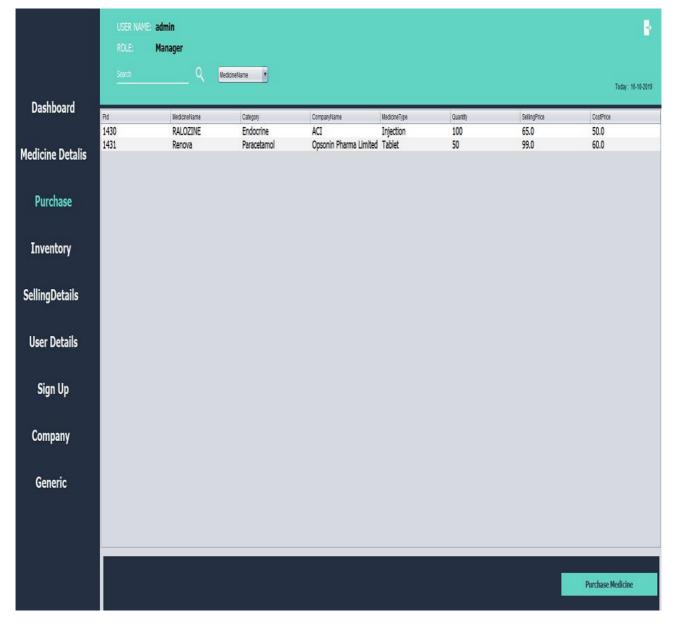
This panel will show the date of Inventory, Medicine, Purchase table. Manager user can purchase or order medicine from this panel.



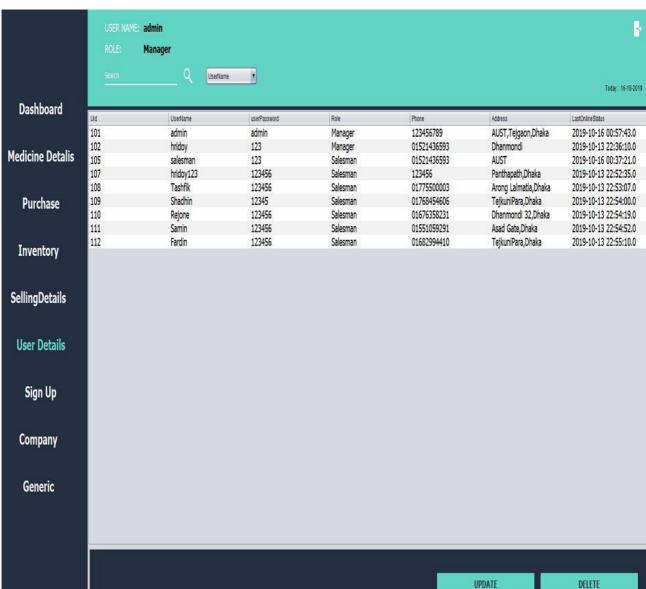


This panel will show the data of Purchase, Medicine, Company, Generic table. Manger user can delete data and edit price in this panel and salesman add item.

4.6 Snapshot of Selling Details Panel

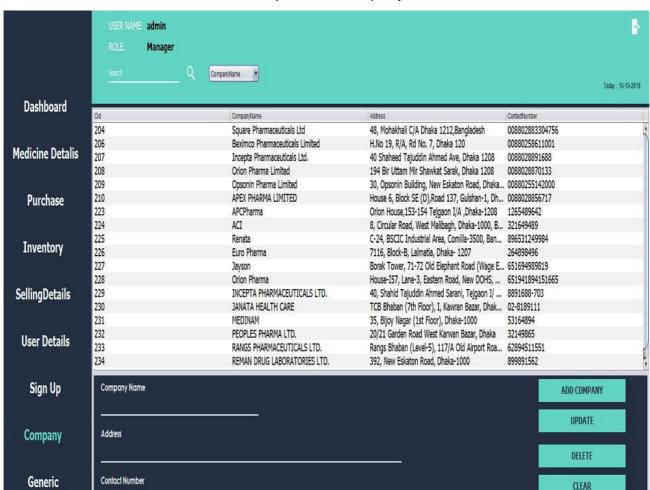


This panel will show the data of Selling Details, System User table.



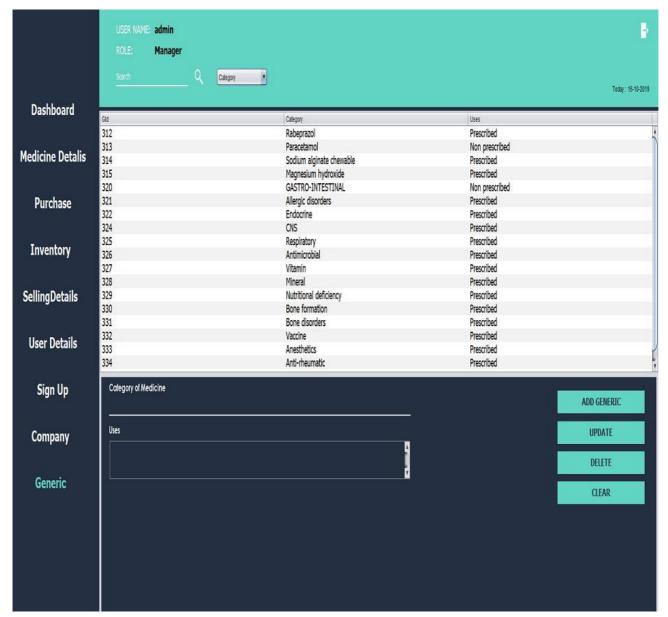
4.7 Snapshot of User Details Panel

This panel will show data of System User. Only like manager can update or delete user from this table.



4.8 Snapshot of Company Panel

This panel will the data of Company table. Admin user can add company detail, delete, update or clear exiting company details.



4.9 Snapshot of Generic Panel

This panel will show the data of generic table. Admin user can add generic of a medicine or update, delete, clear exiting data.

5 Conclusion

Our objective of this pharmacy management system is to improve the accuracy, enhance safety and efficiency in the pharmaceutical store. It is a computer based system which helps the pharmacist to improve inventory management, cost, medical safety etc. Pharmacy management was developed to ensure the security of information and reliability of Pharmacy record when accessing and providing services to the customers. This Project is insight into the design and implementation of a Pharmacy management system. The primary aim of is to improve accuracy and enhance safety and efficiency in the pharmaceutical store. Today management is one of the most essential features of all form. Management provides sophistication to perform any kind of task in a particular form. This pharmacy manage, it is used to manage most pharmacy related activities in pharmacy. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et

malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.