**CHAPTER 1**

**INTRODUCTION**

**1.1 Introduction**

* In this project we are going to develop software which involves online communication between wholesaler and retailer.
* We will develop the web portal for this.
* There are mainly two modules wholesaler and retailer.
* In this port, retailer can order their medicines online.
* Wholesaler maintain the stocks of medicines. Retailer also can return the expired medicines.
* It includes various functionalities such as feedback form which is help to inform about medicines available or not.

**1.2 Scope**

The scopes are mention below:

* Manage stock of medicines :- This is managed by wholesaler. Keep record of all the medicines.
* Internet necessary :- It is web-based application. without internet cannot use this application.
* Platform :- This application is only for android platform.

**1.3 Purpose**

* This online communication is better than telephone communication.
* It is beneficial for both because it is time saving.

**1.4 Overview of the Project**

* In Medical Corporation, we aim to develop a web-based application which will maintain different medical software’s.
* The stockiest, wholesaler and retailer will use online system to maintain different stocks of medicines.
* Our system mainly consists of wholesaler modules. In this system information such as name, address, contact information, sales detail of the medicines, expired medicines detail is maintained.

## 1.5 Problem Definition

## In the development of Med Pharm, iterative waterfall model is used because through this model Stokiest can know what retailer want regularly.

## As in this type of model Stokiest do contact of retailer after some short time and show them the development of Medicine.

## Retailer can also get some satisfaction from Stokiest and also do modification easily if necessary. Thus, chances of product‘s failure reduce through this application.

**CHAPTER 2**

**Technology and Literature Review**

## 2.1 About tools and Technology

**Android**

* Simply an Operating System (OS) created by Google to run on any small electronic devices such as cell phones, e-books, Media Internet Devices (MID), notebooks, Internet tablets, and many others devices in the future.
* An OS is similar to Windows that controls your desktop or laptop personal computers. Google fully developed Android and make it into an Open Source. Now, any phone manufacturer can use Android without expensive license fee from Google.
* Because it is Open, manufacturer can modify Android without restriction, allowing it to fit the device they are making -total freedom. This makes it a big incentive for any device manufacturers to adopt Android. The ability to run tens of thousands of apps is another big incentive.

**Why Android?**

**Powerful, simple, and beautiful**

* Millions of people use Android because it’s so powerful yet still so easy. The home screen, apps, and widgets are simple to use right out of the box, but completely customizable. With Android, you can create a unique mobile experience that’s just right for you.

**Widgets**

* Put the important stuff right within reach and interact with your favorite apps directly from your home screen with widgets — see the latest sport scores, view your favorite photos, check the weather or peek at your inbox all without having to open different apps or leave the home screen.

**Notifications**

* An easy-to-read notification tray gives you quick access to your calls, incoming texts, and new emails in a non-intrusive way.

**Multi-tasking**

* With Android, you can quickly and seamlessly switch between apps and pick up whatever you were doing. Juggling multiple tasks at once on a mobile device has never been easier.

**Voice typing and actions**

* Control your Android device with your voice. Simply touch the microphone on the keyboard and start talking to write emails, SMS, or any other text — more than 30 languages supported. Text appears in real time, so there’s no waiting.

**Microsoft SQL Server 2008**

* Microsoft SQL Server 2008 is a strong backbone database system to manage all the inserted data. SQL Server 2008 is also used to manipulate the query to find and retrieve data based on our SQL statements. When connecting to an instance of SQL Server, your connection is associated with a particular database on the server. SQL Server 2008 introduced "MARS", a method of allowing usage of database connections for multiple purposes

**Front-end**

Android sdk 4.4

PHP

**Back-end**

MY SQL

## 2.2 Brief History of Work Done

* In the development of Med Pharm iterative waterfall model is used because through this model stokiest can know what retailer want regularly. As in this type of model stokiest do contact of retailer after some short time and show them the development of medicine. Retailer also get some satisfaction and modification can do easily if necessary. Thus, chances of product‘s failure reduce through this application.
* Project Development Approach is a very important thing which should be predefined before development of any product. As through the model team-member can know that how will flow of work go? SDLC contains main module of development of software and also see in which way it will perform.
* The SDLC contain the following component:
* Requirement Gathering
* Analysis
* Designing
* Implementation
* Testing
* There are various types of SDLC model which are used in development of various

applications that are as follow.

* Water fall model
* Incremental model
* RAD model
* Prototyping model
* Spiral model
* Iterative waterfall model

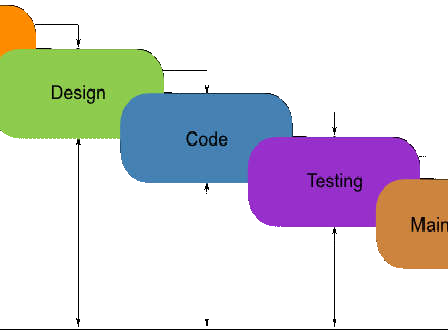
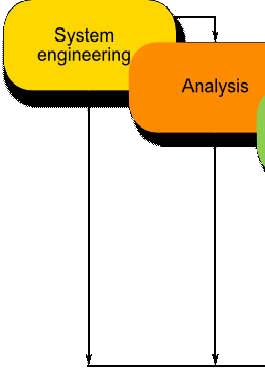


Figure 2.1 Iterative Waterfall Model

* The basic idea behind this method is to develop a system through repeated cycles(iterative) and in smaller portions at a time (incremental), allowing software developers to take advantage of what was learned during development of earlier parts or versions of the system. Learning comes from both the development and use of the system, where possible key steps in the process start with a simple implementation of a subset of the software requirements and iteratively enhance the evolving versions until the full system is implemented. At each iteration, design modifications are made and new functional capabilities are added.
* The procedure itself consists of the initialization step, the iteration step, and the Project Control List. The initialization step creates a base version of the system. The goal for this initial implementation is to create a product to which the user can react. It should offer a sampling of the key aspects of the problem and provide a solution that is simple enough to understand and implement easily. To guide the iteration process, a project control list is created that contains a record of all tasks that need to be performed. It includes such items as new features to be implemented and areas of redesign of the existing solution. The control list is constantly being revised as a result of the analysis phase.
* The iteration involves the redesign and implementation of iteration is to be simple, straightforward, and modular, supporting redesign at that stage or as a task added to the project control list. The level of design detail is not dictated by the iterative approach. In a light-weight iterative project the code may represent the major source of documentation of the system; however, in a critical iterative project a formal Software Design Document may be used. The analysis of iteration is based upon user feedback, and the program analysis facilities available. It involves analysis of the structure, modularity, usability, reliability, efficiency, & achievement of goals. The project control list is modified in light of the analysis results.

**CHAPTER 3**

**Syatem Requirements Study**

## 3.1 User Characteristics

The user will able to:

* See the medicines
* Perform and apply various operations on the GUI
* Finally write the processed into database

## 3.2 Hardware and Software Requriments

* **Hardware Requirement**
* Mobile OS: Android 2.2
* 20 MB free space to run an application
* RAM : 512MB(minimum)
* **Software Requirement**
* Programming Language: Core Java
* Front End: Android 4.4
* Back End: MY SQL Server 2008
* IDE: Eclipse

## 3.3 Constraints

**3.3.1 Hardware Limitations**

This Mobile Application working with internet connectivity best for android 4.4 OS, with 30mb free space for smoothly run the application.

**3.3.2 Interface of other Application**

The Mobile application has a communication via Internet. Users can interact to the application from anytime anywhere via internet connectivity and authentication.

**3.3.3 Higher order Language Requirements**

The User- Interface is used with a Mobile application with GUI integration only Using English language. There are multiple users of the application at a time. When user use application first time they needs to register with it, after logging to the application they easily use it.

**3.3.4 Reliability Requirements**

The only constraints coming in the way from application users to use this specific application is that the knowledge of English language and knowledge of smart phone use.

**3.3.5 Criticality of the Application**

This application will be interacting after develop application and as per above requirements with periodic time and including testing activity.

**3.3.6 Safety and Security Consideration**

As a control, Privacy means that your actions cannot be seen or interpreted by anyone who is not supposed to know. Any person will be not able to change or modify information. It is only changed by Admin which will hire for the System.

**CHAPTER 4**

# Syatem Analysis

## Study of Current System

* Using this application retailer can get to see the medicine details and also they can order. From anywhere and anytime they can access.
* Also stokiest can add product details on application anytime for the retailer.
* Right now a person goes to the every medical store and take order of medicine . This entire thing is paper based and time consuming process. So, it is easy way to connect with every retailer to every stokiest.

## Problem and Weakness of Current System

* This working system provides good facilities to the retailer but also it is time consuming and not available everywhere & wherever we are.
* This application is compatible with android based so user must be android mobile knowledge.
* This Application is based on assumption then users know how to use the Application and also how to find information and add products.

## Requirements of New System

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#### 4.3.1 User Requirements

* Retailer can fill the registration form for creating his/her account.
* Retailer can login in to the system using personal security login Id and password and logout from application anytime they want.
* Retailer can order on suitable time.
* Retailer can see products information.
* Stokiest can see all the information and participation information.
* Retailer can also change the password.
* Retailer can see the order list and it’s rate.

**4.3.2 System Requirements**

**Security**

Only authorized person can view and modify confidential details.Each User has his/her own access rights and to lower level user there are restrictions of not using some of the system components. One user can’t access other user’s account.

**Privacy**

As a control, Privacy means that your actions cannot be seen or interpreted by anyone who is not supposed to know. Any person will be not able to change information.

**Scalability**

Performance of the system should not be degraded when many users are logged-in and accessing the database at the same timeThe system must be scalable enough to be able to add any additional functionality even after the application is developed once.

**Reliability**

The database of various modules are maintained by the system should be correct and maintained up to date.

**Error**

An error message is a control to make you aware that security has been controls have been broken.

## Fesasibility Study

**4.4.1 Implementation Feasibility**

This application is developed in Eclipse (with Android SDK) /My SQL server and is to be implemented in the environment only. However to implement the application the user doesn’t need to have a complete knowledge of the technical features of this android OS.

**4.4.2 Cost & Schedule Feasibility**

PSS economically feasible as it is not including extra cost for hard ware and software require. All the functionally of application is fulfilling through PSS in less cost so system is economically feasible. Another important feature to be considered during the feasibility study was the time limit. The main concern during the schedule feasibility was to cover the wide range of applications

**4.4.3 Technical Feasibility**

This project is implemented using Android SDK that provided by Google. As it was easily available in any smart phone (featured android OS). It is very popular technology used by smart phones.

## Requirement Validation

## All forms, menus should be standardized i.e. all forms have a standard way of accepting inputs from the users and giving output to the users.

## If any filed is compulsory and if that one is left blank then an error message will be displayed. The system validate the all standard input form validations required to be done in name, length , date , username , password etc.

**Some of them described here:**

* Required data filed can’t filled blank there is an notify for it.
* Display date and time must be in specific format.
* E-mail must be written in specific formats.
* User must select only one category

## Activity/Proess in new System

The Activity involved in the the new System are :-

* Retailer Login/ Register
* See Products and Profile
* Buy medicine
* Send Feedback
* Send Inquiry

**Activity wise Description:**

* **Retailer Login/Register** :- Login module is used to check whether the Retailer is anauthorized person or not. For this the user should give the correct username and password. User must have to register an account before using functionalities within the application.
* **See Products and Profile** :- One of the feature to see Different Products and their own profile.Mobile users bring their devices with them everywhere so Retailer can see this details from anytime anywhere and book events.
* **Buy medicines** :- This module provides retailer to buy their appropritr medicines anytime.
* **Send Feedback**: This module let students to give feedback to the stokiest forimprovements or suggestion.
* **Send Inquiry**: Through this module retailer send inquiry to the stokiest for their products.

## Feature of new System

* Using this application retailer can get to see the product details and also they can order it. From anywhere and anytime they can access.
* Right person goes medical store for taking an order and this entire thing is paper based and time consuming process . So, it is easy way to connect with the stokiest.