**MAIN PROJECT**

REVIEW-I

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**WEB BASED CLAIMS PROCESSING SYSTEM**

BY

**DINESH.M**

III-MCA(1738M0001)

Under the guidance of

**Dr. D. KAVITHA.,**

**CHAPTER-1**

**1. INTRODUCTION**

* 1. **AN OVERVIEW**

The project entitled as “Web Based Claims Processing System (WCPS)”.An organization which is having an employee strength of at least 1500. All the employees are provided medical reimbursement facility which means that the expenditure incurred by the employee for treatment is reimbursed by the company. For reimbursement, the employee needs to fill in a form detailing the treatment undertaken which includes the name & cost of medicines, laboratory tests, surgery. The form is duly signed by the employee and it will be sent to the concerned Claims Processing Department (CPD) by messenger for processing. CPD will process it and the order regarding the reimbursement is sent to the Cash counter (CC) where in the employee can come and receive the reimbursement amount.

* 1. **OBJECTIVE OF THE PROJECT**

Web Based Claim Processing System (WCPS) is complete end to end solution to cover all aspects of online claim and reimbursement system. In this site employee can fill the form online and he can submit the necessary document for claim processing department through online. This website will permit to enter new claim, track the claim status and maintaining master information. Employees are the main users of this system and management can approve or reject the claim requests sent by employee.

### 1.3 BACKGROUND STUDY

**1.3.1 THE ORGANIZATIONAL PROFILE**

KG Information Systems Pvt. Limited (KGISL) is a global technology service provider in the BFSI space. Since inception, KGiSL has witnessed steady growth in all spheres of the business taking on new and challenging endeavors and delivered it exceeding all expectations.

KGiSL helps clients do business better by leveraging our industry-wide business experience, software expertise and comprehensive portfolio of services. It is the Coimbatore’s first global IT Company.

In KG Information Systems Private Limited (KGiSL), we deliver exemplary Software Solutions, Services, and Consulting to the organizations serving BFSI sector. KGiSL is a boutique consultancy that provides end-to-end solutions and services in all the latest technology available, with over a decade of experience in the industry, we are the clear leader in the IT service sector.

**Mission**

To constantly research, learn and excel the emerging technology that enables our clients and ourselves to breakthrough and be the segment leaders. To be the company that understands the customers and the technology to deliver a customer centric and digitally strong work environment.

**Vision**

To be the Fintech Partner for the global Capital markets and Insurance companies and empower them with automation, transformation and digitization.

**1.3.2 STUDY ON EXISTING SYSTEM**

For reimbursement, the employee needs to fill in a form manually. And detailing the treatment undertaken which includes the name & cost of medicines, laboratory tests, surgery. The form is duly signed by the employee and it will be sent to the concerned Claims Processing Department (CPD) by messenger for processing. CPD will process it and the order regarding the reimbursement is sent to the Cash counter (CC) where in the employee can come and receive the reimbursement amount.

**1.2.2 DRAWBACKS**

* The form may miss during transit.
* The form is prone to weariness due to which the company may not be able to read data in it after some years.
* The employees who claimed for medical reimbursement need to visit the CC from time to time enquiring about the status of their application. This results in enormous

wastage of time of the employee.

**CHAPTER-II**

**2. SYSTEM ANALYSIS**

**2.1 STUDY ON PROPOSED SYSTEM**

It is proposed to develop a software titled Web Based Claims Processing System (WCPS) which is web based so that the employee can fill the form online and submit it so that the form is sent to CPD through Internet. At CPD, the form needs to be checked automatically by a program which will compute the amount that needs to be reimbursed to the employee for the treatment undertaken. Any excess amount claimed by the employee is ignored by the software. The amount computed will be routed to the e-mail account of the employee as well as to the Bank which holds the accounts of all the employees of the company. The bank will credit the amount to the account of the employee based on the mail.

**2.2.1 ADVANTAGE OF PROPOSED SYSTEM**

* Provides complete web site solution, including employee registration, enter new claim, approve/ reject claim. Complete web based administration.
* The employees of all departments can use this system.
* The Web Based Claims Processing System can automatically display pending claim count in the main page of employee of Claims Processing Department (CPD).
* Employee can view their claim status online and all claims can be treated as Pending, Approved and Rejected.
* Employee of CPD can add, edit employee details, all employees are identified by the employee no. Employee no will be unique throughout the system

#### **2.1.2 DEVELOPING SOLUTION STRATEGIES**

**Top-down** strategy of information processing and knowledge ordering, mostly involving software, but also other humanistic and scientific theories. In many cases top-down is used as a synonym of analysis or decomposition. The Web Based Claims Processing System incorporates the following aspects:

**MODULES**

* Employee Registration
* System Login
* Apply for Claim
* View Claim status
* Manage Employee
* Approve Claim
* Pending Claims status

**2.2 SYSTEM SPECIFICATION**

**2.2.1APPLICATION SPECIFICATION**

Three-tier architecture introduces a server (or an "agent") between the client and the server. The role of the agent is manifold. It can provide translation services (as in adapting a legacy application on a mainframe to a client/server environment), metering services (as in acting as a transaction monitor to limit the number of simultaneous requests to a given server), or intelligent agent services as in mapping a request to a number of different servers, collating the results, and returning a single response to the client.

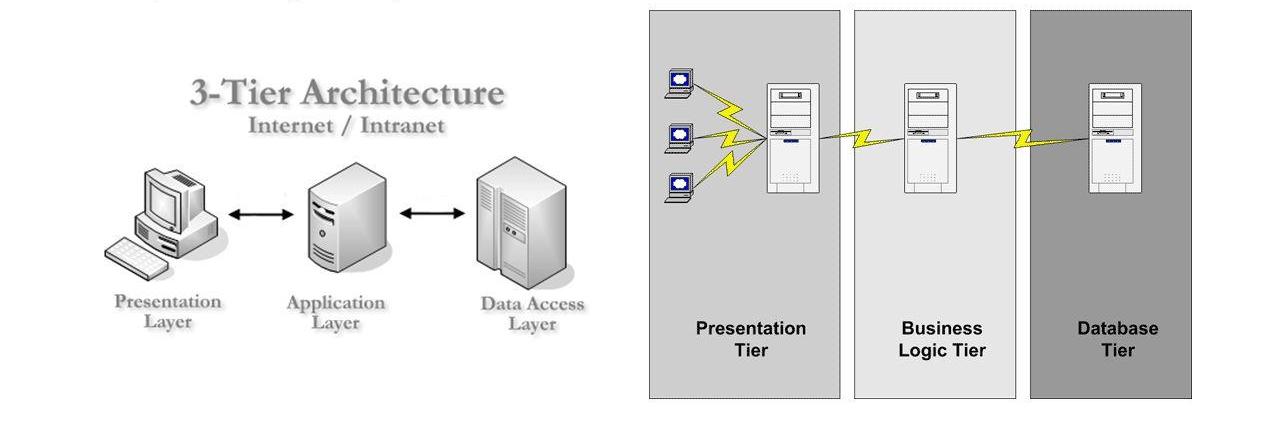
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Fig:1Three-tier architecture

**2.2.2HARDWARE SPECIFICATION**

The components of the computer such as electrical, electronic and mechanical units are known as the hardware of computer. The input, output unit and central processing unit (CPU) are called as hardware. Thus hardware is the equipment involved in the functioning of a computer.

**REQUIREMENT**

* Processor **:** Pentium IV
* RAM **:** 1 GB
* Hard Disk  **:** 40 GB
* Monitor **:** 15”CRT or LCD monitor

**2.2.3 SOFTWARE ENVIRONMENT**

It deals with defining software resource requirements and prerequisites that needed to be installed on a computer to provide optimal functioning of an application. These requirements or prerequisites are generally not included in the software installation of package and needed to be installed separately before the software is installed.

**REQUIREMENT**

* Front End/GUI Tool **:** Geany
* Operating System **:** Windows Family
* Language **:** Python
* Back End **:** MYSQL

**SOFTWARE FEATURES**

**FRONT-END TOOL – PYTHON**

Python is a high-level, interpreted, interactive and object-oriented scripting language was developed by Guido van Rossum. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance Many large companies use the Python programming language include NASA, Google, YouTube etc.

It used for :

* Web Development
* Software Development
* Mathematics
* System Scripiting

## **PYTHON FEATURES**

## **Easy to Learn Use**

## Python is easy to learn and use. It is developer-friendly and high level programming language.

## **Expressive Language**

## Python language is more expressive means that it is more understandable and readable.

## **Interpreted Language**

## Python is an interpreted language i.e interpreter executes the code line by line at a time. This makes debugging easy and thus suitable for beginners.

## **Cross- Platform Language**

## Python can run equally on different platforms such as Windows, Linux, Unix and Macintosh etc. So we can say that python is a portable language.

## **Free and Open Source**

## Python language is freely available at official web address. The source-code is also available. Therefore it is open source.

**Object-Oriented Language**

Python supports object-oriented language and concepts of objects and classes come into existence.

**Extendable**

It implies that other language such as C/C++ can be used to compile the code and thus it can be used further in your python code.

**Large Standard Library**

Python has a large and broad library and provides rich set of module and functions for rapid application development.

**GUI Programming Support**

Graphical user interface can be developed using Python.

**BACK END**

**MYSQL**

**MYSQL** is the widely used open source database. Hence it can be download and used by the developer for free. Its name is a combination of "My", the name of co-founder Michael Widenius daughter, and "SQL", the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. MYSQL is the Back-end database for most of the websites. MYSQL occupies very less disk space. MYSQL can be easily installed in all major OS like Microsoft Windows, UNIX and LINUX.

**2.3 COST ESTMATION AND SCHEDULING**

Software cost is related to many variables such as Human, Technical, Environment and Effort applied to develop it. The estimates of cost depend, on our ability to estimate and evaluate several factors, given below.

**NUMBER OF USER INPUTS**

* + Number of user output
  + Experience and ability of the project personnel
  + The quality of software development environment
  + The degree to which software components can be reused

The **Co**nstructive **Co**st **Mo**del (COCOMO) is an algorithmic software cost estimation model developed by Barry Boehm. The model uses a basic regression formula with parameters that are derived from historical project data and current as well as future project characteristics.

Let us see how to compute the man power estimation and the cost estimation of the project “Web Based Claims Processing System” is the computation is described briefly below.

**MAN POWER ESTIMATION**

|  |  |
| --- | --- |
| **DESCRIPTION OF TASK** | **NO OF DAYS** |
| Abstract | 1 |
| Problem Statement | 2 |
| System Requirements | 1 |
| Design | 10 |
| Coding | 24 |
| Implementation | 4 |
| Testing | 5 |
| Reports | 10 |
| Deployment | 2 |
| Scope | 1 |
| **Total** | 60 Days |

The COCOMO cost estimation formula is

E = c\*size k

Where, E = effort in person-months. The effort measure helps to make estimates like the number of person months that will take for the project to execute. The size estimate is converted in to effort estimates.

c = 3.0 for semidetached mode

k= 1.12 in semidetached mode

Size= (SLOC)/1000=3.0

Thus the effort for making Web Based Claims Processing System

D = a\*Eh

Where

D = Development time in chronological months

a = 2.5 in semi-detached mode

h = 0.38 in semi-detached mode

No of days worked = 60 days

1 day work = 8 Hours

Total no of hours = 480 Hours

Cost for 1 hour = *₹* 100

Total number of cost =Total number of hours\*cost for 1 hour

Cost = 480\*100 = 48,000/-

Therefore total cost of the product is *₹* 48,000/-

**2.4 FINAL OUTLINE OF THE PROPOSED SYSTEM**

This project is saves all the bills which has been claimed as a soft copy, these soft copies can be viewed by the admin so that he can confirm the charges which the employee has claimed. Once all the charges are confirmed then if the admin is ready to pay those charges to the employee then he has to approve those claim. Once it has been claimed, If the employee feels that he has left some bills to claim he can send the request with the soft copy once again. It is reduces time. And it is provide a better service and make the process easily.