**A**

**SYNOPSIS REPORT**

**ON**

**“Optician Management System”**

**WITH REFERENCE TO**

**“RANJAN OPTICIAN”**

**Submitted By**

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TO

**SHIVAJI UNIVERSITY KOLHAPUR**

FOR THE AWARD OF

**B.C.S. (Computer Science)  
 UNDER THE GUIDANCE OF**

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**THROUGH**

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GADHINGLAJ.**

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**project guide H.O.D.**

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**Organization Profile**

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| --- | --- |
| **Organization Name :** | **Ranjan Opticians** |
| **Owner :** | **Rahul kode** |
| **Mobile Number :** | **9421206706** |
| **Year of Establishment :** | **1982** |
| **Area of Work :** | **Gadhinglaj** |

**Introduction**

This software for Optician Management implements capabilities of computer to maintain the work information of optician. Using this software user can easily manage the information of patient and dispense and also can also manage appointments with patients. Software provide efficient user interface to user so that user can easily handle the application.

It is required great effort to manage the records manually. If we want to find any record of patient then it is very time consuming in case of manual system but, using software we can quickly find the information of patient from thousands of patient’s records.

Software can generate reports monthly or year wise which is very useful for user to take overview of work. This Software helps opticians to view reports as required and whenever required also it gives guaranty that information provided will be very accurate and correct as computer makes less mistakes than human.

**1.3 Existing System**

* The present System is maintained manually and involves many registers if some previous records have to be found then all the registers have to be searched until the required is found.
* Existing manual system partly work on registers and ledgers work. Here each record is written manually and consumes lot of time.
* All the calculations are done manually so the error rate is high.
* Validation, deletion, updating of any record is done manually**.**

**1.4 Need & Scope of System**

* Existing system is completely depending on manual work. This is information store in registers.
* In existing system more man power is required.
* This information store in register is not accurate as well as there is various mistakes in data fill process of system.
* To storage large amount of data, more stationary is required which increases the cost of stationary.
* In existing system lots of time is spend on information in register and managing mistakes and not accuracy of the records.
* The existing system, any authorized system can access the register so, security is provide in existing system.
* In existing system we cannot modify the record also we cannot keep backup of document.
* The management cannot be effectively followed by existing system.
* To overcome this disadvantages software is required.

**1.4.2 Scope of System**

* This application software plays important role in work of opticians.
* It maintains information of patient and dispense records .
* It maintains information of patient when patient first comes to optician.
* It maintains check up information of patient after check up by opticians.
* It can provide facility to maintain appointments of optician.
* It maintains sales records and dispense records.

**Proposed System**

Proposed system software keep track of opticians working .It can maintains information of patient when patient first come to Optician .Then it provide facility to give appointment to patient for Eye check up. It can store information of check up after check up of patient by opticians. After check we can take order form patient .this software can create invoice of order and maintain information of invoices. It is also able to generate prescription after check up and recipient after delivery of product which can be print or save on drive.

System Diagrams

2.1 Objective of System

* To develop the complete computerized application that can satisfy all the needs of optician.
* To get more reliable and efficient maintenance of work of optician.
* To get security and updating data energy and authorization.
* To care of update of software.
* To get sufficient information of each patient.
* To manage the information about the patient , check up and dispense by paperless work.
* To provide security and authenticity and to save valuable time of optician.

Requirement Engineering

2.2.1. Requirement gathering

Information of this software is collecting by visiting to optician and arranging interview with optician . Software requirements are specified directly as per opticians demands and requirements. And by observing of system and working.

2.2.2. SRS (Software Requirements Specification)

A]Functional Requirements

* + Software created should be able to store information of every patient and should return information whenever needed .
  + It should store information of patient when patient visit first time to optician.
  + It should provide manage opticians appointments.
  + It should provide the information of patient having appointments and pending eye check up.
  + It should store information of check up.
  + It should generate prescription after check up.
  + It should show history of patient treated and their check up information.
  + It should provide facility to find patient history from stored information.
  + It should maintain information of dispense.
  + It should store information of orders taken.
  + It should provide way to find sales history.
  + It should generate recipient after delivery.

B] Non-Functional Requirements

* Software should be reliable and should work correctly.
* It should provide proper user interface to user.
* Software should provide proper security and authorization to user.

Entity Relationship Diagram

Data Flow Diagram

0th level DFD

1st level DFD

2nd level DFD for 2nd process

2nd level DFD for 3rd process

System Requirements

Software Requirements

* Netbeans 8.1 .
* My-SQL Workbench 6.3 CE
* Web Browser ( FireFox )
* Glassfish / WAMPP/XAMPP Server

Hardware Requirements

* + Intel dual core or above
  + Ram 1.0GB or Above
  + Minimum 20Gb or Above

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