Chapter 1

**SYNOPSIS**

* 1. **TITLE OF THE PROJECT:**

“CoolLens”-New way to see

* 1. **MAIN OBJECTIVE OF THE PROJECT:**
* The main objective of the eyewear website is to provide a convenient and hassle-free shopping experience for customers who are looking to purchase eyeglasses or sunglasses.
* The website aims to offer a wide selection of frames from well-known brands, including designer brands, and provide customers with detailed product descriptions and high-quality images to help them make informed decisions.
* Trusted – tension free and reliable delivery of the product.
  1. **STRUCTURED ANALYSIS:**

**Problem Analysis**

Maintaining the data manually to keep track of information of every customer of every item, its sale and purchase depending upon the area of the same is very time consuming and it may cause inefficiency, inaccuracy and it is also difficult to manage those documents.

**FEATURES:**

* Respond Quickly and accurately to customer requests.
* Restriction of data entry by approved administrator.
* Manage every customer interaction efficiently and professionally.
* Increased productivity.
* Satisfy the customer needs.
* Reduce Time and Cost.

**SCOPE OF THE PROJECT:**

* CoolLens is an optical prescription eyewear which operates as an E-commerce website for prescription power glasses, BLU glasses, frames, sunglasses and computer glasses.
* We can track the complete inventory of the shop.
* There are three types of users in this system. i.e.; Administrator, customer, Seller who have different roles**.**

**1.4 FUTURE SCOPE OF THE PROJECT**

* In the future we can integrate this web application with mobile apps.
* We can integrate virtual try on and biometric features.
* To make the website more user friendly.

**1.5 PROJECT CATEGORY:**

This project is a web-based application that comes under the Relational Database Management System (RDBMS).

**1.6 LANGUAGES/ FRAMEWORKS USED:**

**Front End:** HTML, CSS, JavaScript, Python.

**Back End**: SQLite, Django.

**1.7 MODULES:**

The program consists of following modules:

**Administrator module:**

* Category management
* Seller Management
* Product management

**Vendors/Seller:**

• Registration module

• Product management

• Report Module

**End users/customers:**

* Registration module
* Purchase module
* Cancel module
* Feedback module.

**1.8 MODULE DESCRIPTION**

* **Administrator module:**

Admin is a professional who organizes the necessary team members and specializes in facilitating, reporting and analysing projects.

**Category Management:**

This Module allows Admin to add, delete or update product category and product sub category.

**Seller Management:**

This module allows admin to manage seller like approving or rejecting seller application, paying seller payment activating or inactivating seller status etc.

**Product Management:**

This module allows Administrators to view or Delete or Update status of products.

* **Vendors/Sellers:**

Seller will add products to the database, which will be seen in the website to the end users or say customers who can buy the products by selecting the one they need. They will have the special privileges than the end users, and have ability to manage the products added by them.

**Registration Module:**

This module helps Vendors to register into the system by providing valid details.

**Product Management:**

This module allows Vendors to view or Delete or Update status of products.

**Report module:**

This module allows seller/vendor to view various reports, such as Purchase report, Billing report, Seller Payment report, Sellers can change the status of the order purchased by the customer.

* **End Users/Customers:**

The end user will be the one who visits the website and buys products online from the ones added by the Vendors.

**Registration Module:**

This module helps users to register into the system by providing valid details.

**Purchase Module:**

**Cart Module:**

This module deals with the addition of items to the cart, purchasing the items from the cart and deleting the items from the cart.

**Payment Module:**

In this module, management of shopping carts is done. This module will add the bought item to the shopping cart, where all items that are to be purchased can be reviewed once again after the item is bought from the cart. Payment will be done by credit or debit card OR on Delivery of the items (Cash on Delivery).

**Cancel Module:**

This module allows Customer to cancel the product after he/she Placed the order.

**Feedback Module:**

This module allows users to post Feedback or Review regarding eyewear.

**1.9 HARDWARE REQUIREMENTS SPECIFICATION:**

**Processor:** Pentium - II or higher

**Hard Disk Space:** 40 GB (min.)

**RAM Memory:** 4GB (Minimum)

**1.10 SOFTWARE REQUIREMENTS SPECIFICATION:**

**Operating system:** Windows, Linux, Mac, Unix

**Server:** Django Server

**Scripting language:** HTML, CSS, JavaScript

**Database server:** SQLite

**Integrated Development Environment (IDE):** Visual Code

**Front End:** HTML, CSS, Java Script

**Back End:** Django, SQLite

**1.11 LIMITATIONS:**

* Internet connection required.
* Basic computer knowledge required.