A Project Report

On

**E-Commerce Jewellery shop website**

Developed At

**Harivandana College**

Submitted for the partial Fulfilment of Project in

**Bachelor Of Computer Application**

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**Submitted To**



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**CERTIFICATE**

**Acknowledgement**

* At first, I praise to “Harivandana College” Who give me Opportunity, Capability and Energy to Complete this Project Work.
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* Again also thanks to the Almighty for helping in Successfully ending this Project work.

**Abstract**

* The Website is user friendly simple, fast and cost – effective, for personal use and makes the data processing very fast.
* Shopping Cart System is the Simple shopping Solution. It’s a full-featured website and shopping cart System.
* The basic concept of the web application is to allow the customer to shop virtually using the Internet and allow customers to buy the items and article of their desire from the store.

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**Introduction**

* + The Project Vegetable Shop has been developed on **HTML, PHP, CSS, JavaScript, Bootstrap and MySQLi**.
  + The Web portal will have an online interface in the form of an E-Commerce Website that will allow Users to Buy goods form the Merchants.
  + There are two types of Users available in the Project.
  + Customer
  + Admin
  + First one is **Customer** and Second one is **Admin**.
  + Customers or Users have limited access right to access the System while the Admin Users have Full Control over the System.
  + I have Used **PHP** for business logic.
  + **MySQLi** as a Database,
  + **HTML** for Structure Designing,
  + **CSS** for Web Page formating,
  + **JavaScript** form Validation and Animation.

**Scope of Project**

You can order your needy vegetable, fruits & dry-fruits.

* Go to Shop page add to cart any item like Apple, Chilli etc.
* Add your Item in cart.
* Then Checkout your order.

**Purpose**

* Main Purpose is you can easily buy vegetables & fruits.
* Website mainly used for buy fresh vegetables.
* You can get organic & fresh foods from our website.

**2. Literature Serve**

**2.1) Technology Used :**

**Overview of the technology :**

**Font-End:**- HTML, CSS, JavaScript.

* **HTML:-** HTML is use to Create and Save Web Document.

E.g. Notepad/Notepad++, Visual Studio Code.

HTML Stands for “**Hypertext Markup Language**”. It can be assisted by technologies Such as Cascading Style Sheet (CSS) and Scripting language such as JavaScript.

* **CSS:-** (Cascading Style Sheets)Create attractive Layout.

Using **CSS,** you can control of the text, the Style of Fonts, the Spacing between Paragraphs, how Columns are sized and laid out, what Background Images or colors are **used,** layout designs, Variations in display for different devices and Screen sizes as well as variety of other Effects.

* **JavaScript:-** It is a Programming Language, commonly use

with Web browsers. **JavaScript** is a dynamic Computer Programming Language. It is lightweight and most commonly used as part of web pages, whose implementations allow client-side Script to interact with the user and make dynamic Pages. It is an Interpreted Programming Language with object-oriented capabilities.

**Back-End:-** PHP, MySQLi.

* **PHP:-**Hypertext Pre-processor (PHP) is a technology that allows

Software developers to create dynamically generated web page, In HTML, XML or other document type, as per Client request. PHP is Open Source Software.

PHP is a webscripting language, this language is used for develope it project. Many file are create in php file and use with CSS and complete a design of home page and other page. PHP in a many class and session are create and use for some output.

However, PHP is the best known for its database interfacing capabilities. With PHP you can establish a database connection to any of standard database servers. Update the content of a database, even manipulate a particular database schema. The results of queries are easily converted into a valid HTML that is sent back to the client.

* **MySQLi Server:**
* MySQLi is an Open Source, SQL Relational Database Management System (RDBMS) that is Free for many uses.
* The **MySQLi Extension** (MySQL improved) is a relation database Driver used in the PHP Scripting Language to Provide an interface with MySQL databases. There are three main API options when considering Connecting to a MySQL database Server: PHP’s MySQL Extension. PHP Data Object (PDO).
* The data in MySQLi is stored in tables. A table is a Collection of related data, and it consists of columns and rows, Databases are useful when storing information categorically.
* There is for instance, a function library for Manipulating MySQLi Database, Informix Database and much more. There are Several different Steps that execute Scripts:
* The Script Uses the MYSQLI\_CONNECT() function in order to establish a connection to MySQLi Server. The MYSQLI\_CONNECT() function takes three values as its arguments.
* **Hostname:-** The name of the host to which to establish the connection. In our case it is the “**localhost**” because both Servers. The Web Server and the MySQLi Server are running on the same machine.
* **Username:-** The name of a user that has privileges to Manipulate the Test Database that we Created. Default is “**root**”.
* **Password:-** The Valid Password of the User.

**2.2) Feature of MySQLi:**

**Internals and portability:**

* + Written in C and C++.
  + Tested with a board range of different compilers.
  + Works on many different platform.
  + Uses multi-layered server design with independent modules.
  + Security
  + A privilege and Password System that is very flexible and secure, and that enables host-based Verification.
  + Password Security by encryption of all Password traffic when you connect to a server.

**2.3) Connectivity:**

**Clients can connect to MySQLi Server using Several Protocols:**

* Client can connect using TCP/IP sockets on any platform.
* On Windows Systems in the NT family (NT, 2000, XP, 2003, or Vista), Client can connect using named pipes if the server is started with the enable-named-pipe option. In MySQL 4.1 and higher, Windows servers also support Shared-Memory connections if started with the shared-memory option. Client can connect through shared memory by using the protocol memory option.

**2.4) Localization:**

* The Server can Provide error message to Clients in many Language.

**2.5) Client and Tools:**

* MySQLi includes several Client and utility Programs. These include both command-line Programs such as **mysqldump** and **mysqladmin,** and graphical Programs such as MySQL Workbench.
* MySQLi server has built-in support for SQL statements to check, optimize, and repair tables. These statements are available from the command line through the **mysqlcheck** Client.
* MySQLi Programs can be invoked with the help of Option to obtain online assistance.

**2.6) Why To Use MySQLi:**

* Leading Open Source RDBMS
* Ease of use – No frills
* Fast
* Robust
* Security
* Multiple OS support
* Free
* Technical Support
* Support Large Database -up to 50 Million rows, file size limit up to 8 Million TB.

**2.7) phpMyAdmin:**

* phpMyAdmin is a Free software tool written in PHP, intended to handle the administration of MySQLi over the Web. phpMyAdmin supports a wide range of operations on MySQLi and MariaDB.
* Frequently used operations (managing, databases, tables, columns, relations, indexes, users, permissions, etc) can be performed via the user interface, while you still have the ability to directly execute any SQL statement.

**2.8) Hardware Requirements:**

* **Processor**: Pentium 3.0 GHz or higher
* **RAM**: 1024 MB or more
* **Hard Drive**: 10GB or more
* **Minimum OS:** Windows XP, Vista, 7, 8 Browser Software.
* Internet Services or Local host Server

**2.9) Software Requirement:**

* Windows XP/7/8/10.
* XAMPP or WAMPP
* Notepad++ / Visual Studio Code

**3. System Analysis**

**Objective:**

A key objective of this system is that reach maximum customers at the right time to increase sales and profitability of the business. This will enable data integrity across the entire breadth of the system. The online order management system will provide such a facility for ordering any Jewellery so that he/she can easily order Jewellry at their doorstep And it is also very useful to customers because it saves their time and money.

* To shopping via Internet and Online.
* Customer can see all the organic vegetables which available in our farm. And get the full detail information about the our farming.
* Customer has no need to gone for a shopping in outside the home.
* It is Save the time of the customer.
* Customer can also visit our farm for any further quiry related to farming.
* The main objective of the project is to create a system that allows users to order the vegetables that is fully organic.
* The selected vegetables or fruits are displayed in a tabular format and the user can order their vegetables or fruits through credit/debit card Payment.
  1. **Requirement of new System:**
* Online vegetables & fruits order System is best rather than Visit Vegetable Shop.
  1. **Overview of proposed System:**
* We are trying to use less plastic to deliver your order. We uses papers instead of plastic because it harms environment.
* User can get all information in about order in delivery parcel
  1. **Hardware:**
* The Project of Vegetable Shop Website will be compatible on every Browser. Operating System like Windows 7 and higher versions will Support it.
  1. **Software:**
* **Font End Tools**: PHP
* **Back End Tools**: MySQLi
* **Feasibility Study:**

A feasibility study is carried out to select the best system that meets performance requirements. A feasibility study is designed to provide an over view of the primary issues related to a business idea. Three tests of feasibility-all equally important-are studied: Operational, Technical and Financial.

* **Operational Feasibility:**

The proposed System will meet the operational Requirements like System Performance, accessibility of information, client acceptance and efficient solutions to the queries of the user.

If user has some basic knowledge of Internet, User can operate this Website easily. It provides easy user Interface.

Operational feasibility has been considered form the user’s point of View. This Website once deployed. It can run easily without any maintenance at this point to time. After the inclusion of Database in future, the Database might need some clean up after some period of time. If the database size becomes large, then it might need some changes in handling of the Website and require some Optimization so that Website runs Faster and retrieves data faster.

* **Behavioural Feasibility:**

Proposed System will behave according to the requirement made or not. Responses time of the System must be noticed because it is a web based System whether it takes too much time to response or give quick response or response in the specific period of time this consideration is most important. Time consuming Processes are possible to run on this environment or not it is also important.

* **Technical Feasibility:**

This System can be easily Supported by the Hardware and Software requirements of any System.

For End user they just require Username and Password facility to manage their Project. And we are developing Website using most recent Apache web server (XAMPP), which uses MySQLi Developer as Database. It is capable to Store data and provide concurrent access to Information and Adequate responses accurately. Also we will try our system to make it as Expandable as Possible. We also provide Reliability, ease of access, and data Security because this is not a Final Project.

* **Economic Feasibility:**

The Hardware requirement of the System is at least a PC for an Administrator to handle the site from Admin panel. The development cost of the Projects is not much higher.

The cost required for the Creation of our System will be less Compared to the benefits provided by our System.

This System is User friendly so anyone who have a basic knowledge of Computer and then he/she can use easily. And it is also low cost because no need to attach extra Hardware.

**4. Project Management**

Project Management is an important part of project development. It deals with all the main areas of the project development like Feasibility, Requirement analysis, Project Schedule, Project plan etc. We have used the Project Management approach to deal with all these areas. It is achieved by proper selection of Software Life Cycle Model.

**4.1) Project Planning and Scheduling:**

Project planning is perhaps one of the most important works in developing works in developing any project. Before the project can begin estimate regarding work to be done, what recourse’s will be required and how much time will elapse from start to the finish of project. Planning helped us to prepare a framework that enabled to make us a reasonable estimate of all such things.

**4.2) Phases:**

Incremental development slices the System functionality into increments (portions). In each increment, a slice of functionality is delivered through cross-discipline work, from the requirements to the deployment. The unified process groups increments/iterations into phases:

* **Inception:** Inception identifies Project scope, Requirements (functional and non-functional) and risks at a high level but in enough detail that work can be estimated.
* **Elaboration:** Elaboration delivers a working architecture that mitigates the top risks and full fills the non-functional requirements.
* **Construction:** Construction incrementally fills-in the architecture with production-ready code produced from analysis, design, implementation, and testing of the functional requirements.
* **Transition:** Transition delivers the System into the Production Operating environment.

**4.3) Project Planning:**

A plan is drawn up at the **s**tart of the project, should be used as the driver of the Project. The Project Planning consists of:

* Selection of suitable Software Development process model which I have Selected Interactive Waterfall Model.
* Risk Management Plan, which involves the Risk identification and Risk assessments.

**4.4) Risk Management:**

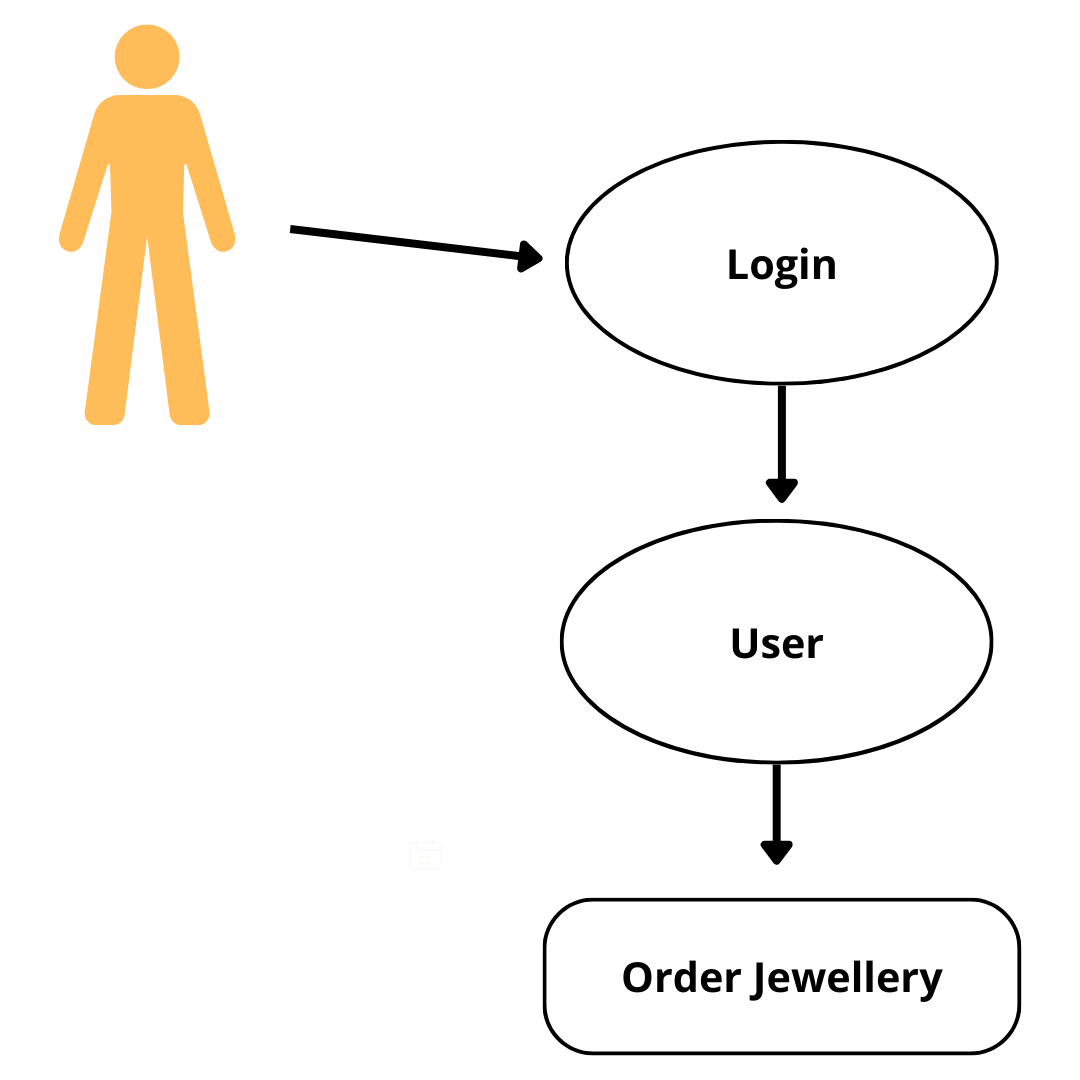
Risk Management is the process of measuring, or assessing, risk and developing strategies to manage it. Strategies include Transferring the Risk to another party avoiding the Risk, reducing the Negative Effect of the Risk.

**4.5) Risk Identification:**

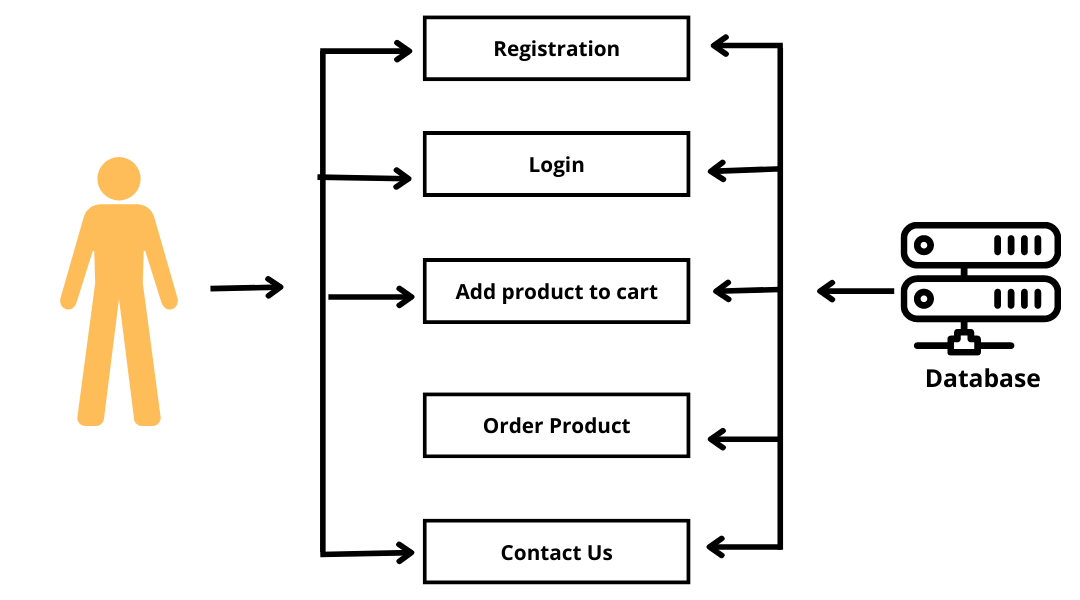
After Establishing the Context, the next step in the process of managing Risk is to Identity potential Risks are about events that, when Triggered, cause Problems. Hence, Risk Identification can Start with the source of Problems, or with the Problem itself.

**5. Use Case Daigram**

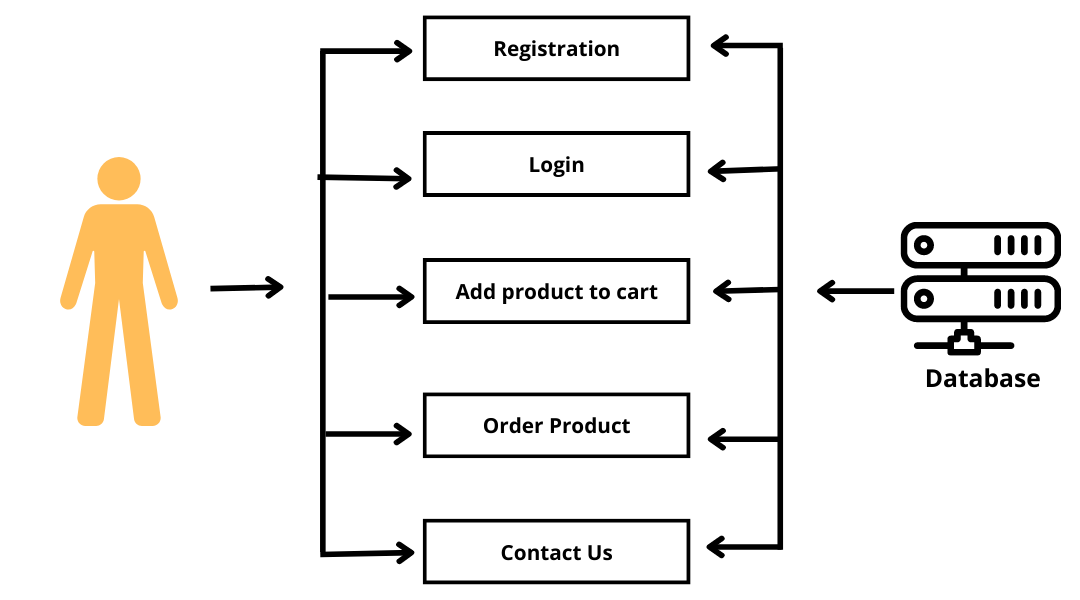
**1) Use case Diagram of Users**



**2. Client side use case daigram**

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**3. Admin Side Use case Daigram**

****

**Description:**

* User can add Product to Cart after Login.
* If user wants to order than Select product and add cart and click cart and checkout and pay.

**Administrator Function**

* The Administrator will be able Delete users.
* The Administrator will have full authority over all the users.
* The Administrator will be able to see the entire user data that saved.

**6. Data Dictionary**

**KRUPA JEWELLERY DATABASE TABLES**

|  |  |  |
| --- | --- | --- |
| **No** | **Table Name** | **Table Use** |
| 1 | Admin | For Admin Only |
| 2 | Products | Available Vegetables/Fruits |
| 3 | Customer | For Registration |
| 4 | Contact us | User Messages |
| 5 | Order Detail | Order details |

**Admin**

|  |  |
| --- | --- |
| **Table Name** | **admin** |
| Description | This table is used to create and maintain Admin |
| Primary Keys | id |
| Foreign Keys | - |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Keys** | **Field Name** | **Type** | **Size** | **Constraints** |
| **\*** | id | Integer | 11 | Not Null |
|  | email | Varchar | 32 | Not Null |
|  | pwd | Varchar | 32 | Not Null |

**Product**

|  |  |
| --- | --- |
| **Table Name** | **product** |
| Description | This table is used to Create and maintain vegetables data |
| Primary Keys | p\_id |
| Foreign Keys | - |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Key** | **Field Name** | **Type** | **Size** | **Constraints** |
| \* | p\_id | Integer | 11 | Not Null |
|  | p\_nm | Varchar | 64 | Not Null |
|  | p\_price | Varchar | 64 | Not Null |
|  | p\_detail | Varchar | - | Not Null |
|  | p\_cat | Varchar | 10 | Not Null |
|  | p\_photo | Varchar | - | Not Null |

**Order Detail**

|  |  |
| --- | --- |
| **Table Name** | **order\_detail** |
| Desciption | This Table is used to maintain the order details |
| Primary Keys | order\_id |
| Foreign Keys | - |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Keys** | **Field Name** | **Type** | **Size** | **Constraints** |
| \* | order\_id | Integer | 20 | Not Null |
|  | customer\_id | Integer | 20 | Not Null |
|  | product\_id | Integer | 20 | Not Null |
|  | order\_qty | Integer | 20 | Not Null |

**Customer**

|  |  |
| --- | --- |
| **Table Name** | **register** |
| Description | This Table is used for Registration |
| Primary Keys | c\_id |
| Foreign Keys | - |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Keys** | **Field Name** | **Type** | **Size** | **Constraints** |
| \* | c\_id | Integer | 11 | Not Null |
|  | c\_username | Varchar | 32 | Not Null |
|  | c\_pwd | Varchar | 64 | Not Null |
|  | c\_email | Varchar | 32 | Not Null |
|  | c\_phone | Varchar | 32 | Not Null |
|  | c\_address | Varchar | 128 | Not Null |
|  | c\_order | Varchar | 64 | Not Null |

**Contact us**

|  |  |
| --- | --- |
| **Table Name** | **contact\_us** |
| Description | This table is used to contact us |
| Primary Keys | con\_id |
| Foreign Keys | - |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Keys** | **Field Name** | **Type** | **Size** | **Constraints** |
| \* | con\_id | Integer | 11 | Not Null |
|  | con\_fnm | Varchar | 32 | Not Null |
|  | con\_email | Varchar | 32 | Not Null |
|  | con\_sub | Varchar | 32 | Not Null |
|  | con\_message | Varchar | 32 | Not Null |

**7) Data Flow Diagram**

* **Data Flow Diagram from both Side**

**View/manage Order**

**Delete Product**

**Krupa Jwellery**

**Edit Product**

**Home**

**Cart**

**Registration**

**Login**

**Contact**

**Shop**

**Client**

**Login**

**View Product**

**Add Product**

**Admin**

* **User Case Diagram**

**Log in**

**Register**

**Database**

* **Client Side Use Case**

**Registration**

**Log in**

**Order Groceries**

**Database**

**Contact us**

* **Admin Side Use Case**

**Admin**

**Add Vegetables/fruits**

**View Vegetables/fruits**

**Database**

**Delete Vegetables/fruits**

**Edit Vegetables/fruits**

* **DFD Diagram (Data flow Diagram)**
* **DFD 0 Level**

**Order Vegetable/Fruits**

**Log in**

**User**

* **DFD Level 1 (Diagram)**

**Client Side**

**Registration**

**View Orders**

**Order Vegetable/Fruits**

**Login**

**Registration**

**Login**

**Database**

**Logout**

* **DFD Level 1 (Diagram)**

**Admin Side**

**Log in**

**Edit**

**Home**

**View Item**

**Add Item**

**Edit Item**

**View Customer**

**View Orders**

**8. CFD (Control Flow Diagram)**

* **Control Flow Diagram from Admin Side**

**Home**

**Administrator**

**Admin**

**Login**

**Login**

**Page**

No

* **Control Flow Diagram from User side**

**Log-in**

**All Users**

**Home**

**Register User**

**User has to Register first then, he/she can Login**

**Non-Register User**

**9. Implementation Planning and Details**

* **Implementation Environment**
* This application is made by keeping in mind the basic Concept of Website Development, the Website can be used by each of the Person at a time on their respective Systems.
* This Website is also made in such a way as to provide user with the most Effective Graphical Interface. So that the user can easily search out for Vegetables & fruits and Navigate through out the Website with the ease of using this Website.
* So, As the conclusion of above two points, this Website is having the multi-user and Effective GUI environment for the users.

**10. Testing**

* This includes the methods that were used for testing, Validating, and evaluating the System. The Conclusion and the Future Work for the Software are also given.
* Start with a base Function that you want to implement.
* Create a document with the detailed requirement definition, an activity diagram with a description of the Flow, Database tables to be used, a Component diagram, and a Description of each component with the precondition and tables that would be affected by the component.
* Give the document to the tester, and work with the tester while he or she writes the code to check if the steps in the document can be implemented and if the result of each use case can be achieved.
* Ask the tester to log on all the errors and difficulties he or she encountered while working on the prototype implementation.
* When the testing approach was implemented, the following pros and cons regarding the testing approach were realized.
* Pros of using the methodology
* Helps give a better understanding about the requirements.
* Better design at the end of the cycle.
* Reduced testing to be performed at the end of the cycle.
* Documents produced would be of higher quality.
* Cons of using the methodology
* The person working on the document should be experienced.
* There are increased time and money involved with testing.
* Different view points for the same problem can lead to varying results.
* **Testing Method:**

There are mainly Four Strategies are there.

* Static Testing
* Dynamic Testing
* Black Box Testing
* White Box Testing
* **StaticTesting:**

The Verification activities fall into the Category of Static Testing.

During Static testing, you have a Checklist to check whether the work you are doing is going as per the set standards of the organization.

These Standards can be for Coding, Integrating and Deployment. Reviews, Inspection’s and Walkthrough’s are Static Testing methodologies.

* **Dynamic Testing:**

Dynamic Testing involves working with the Software, giving input Values and Checking if the output is as expected.

These are the Validation activities. Unit Test, Integration Tests, System Tests and Acceptance Tests are few of the Dynamic Testing methodologies.

As we go further, let us understands the various test of Life Cycle’s and get to know the Testing Terminologies. To understands more of Software testing, various methodologies, tools and Techniques.

* **Black Box Testing:**

Black Box Testing is testing without knowledge of the internal workings of the Item being tested. For example, when black box testing is applied to Software Engineering, the tester would only know the legal Inputs and what the expected Outputs should be, but not how the Program actually arrives at those outputs.

It is because of this that black box testing can be considered testing with respect the specifications, on other knowledge of the program is necessary.

For this reason, the tester and the programmer can be independent of one another, avoiding programmer bias toward his own work. For this Testing, test groups are often used.

Also, due to the nature of black box testing, the test planning can begin as soon as the specifications are written.

This Strategy has some advantage like it is more effective on larger units of code than glass box testing, tester needs no knowledge of implementation, including specific programming.

* **White Box Testing:**

White box testing strategy deals with the internal logic and structure of the code. White box testing is also called as glass, structural, open box or clears box testing.

The tests written based on the white box testing strategy incorporate coverage of the code written, branches, paths, statements and internal logic of the code etc.

In order to implement white box testing, the tester has to deal with the code and hence is needed to possess knowledge of coding and logic i.e. internal working of the code.

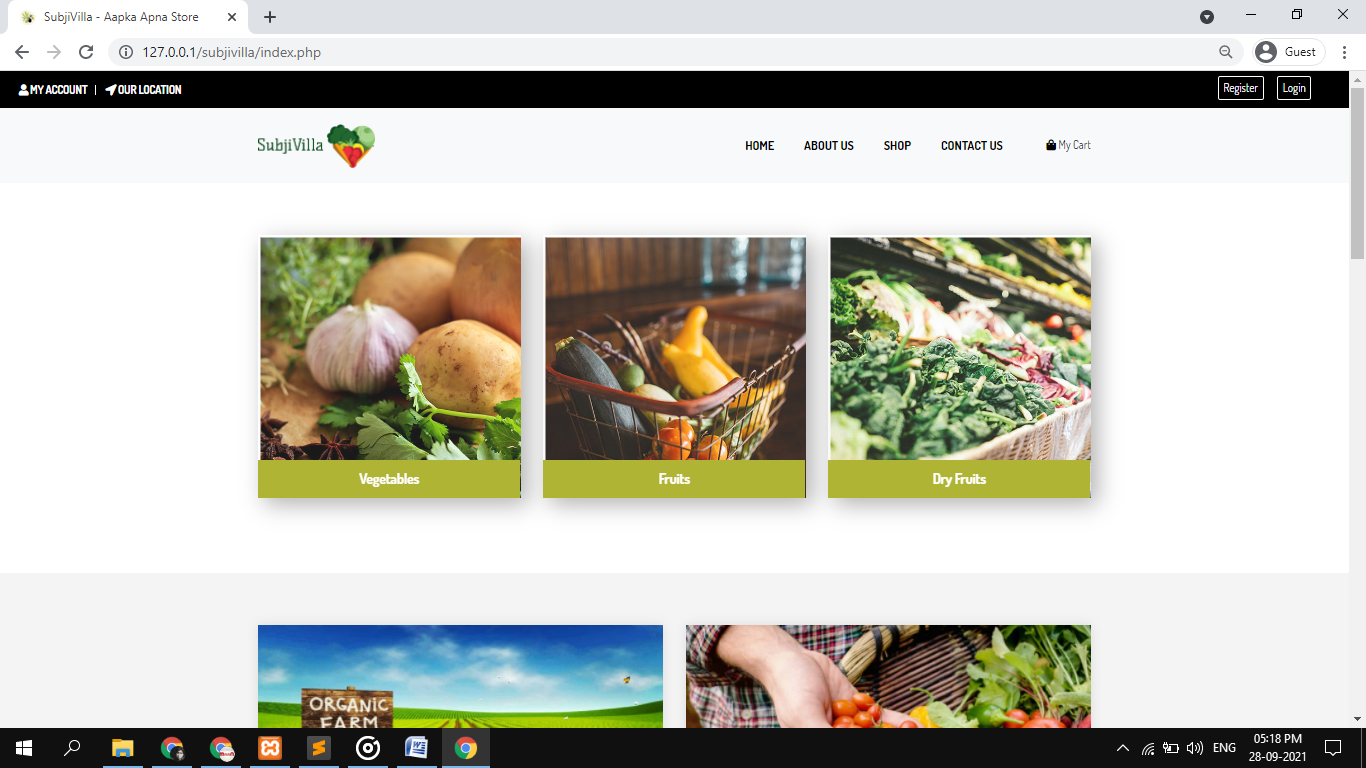
White box test also needs the tester to look into the code and find out which unit/statement/chunk of the code is malfunctioning.

The White Box Testing has also some advantages like as the Knowledge of internal coding structure is prerequisite. It becomes very easy to find out which type of input/data can help in testing the website effectively.

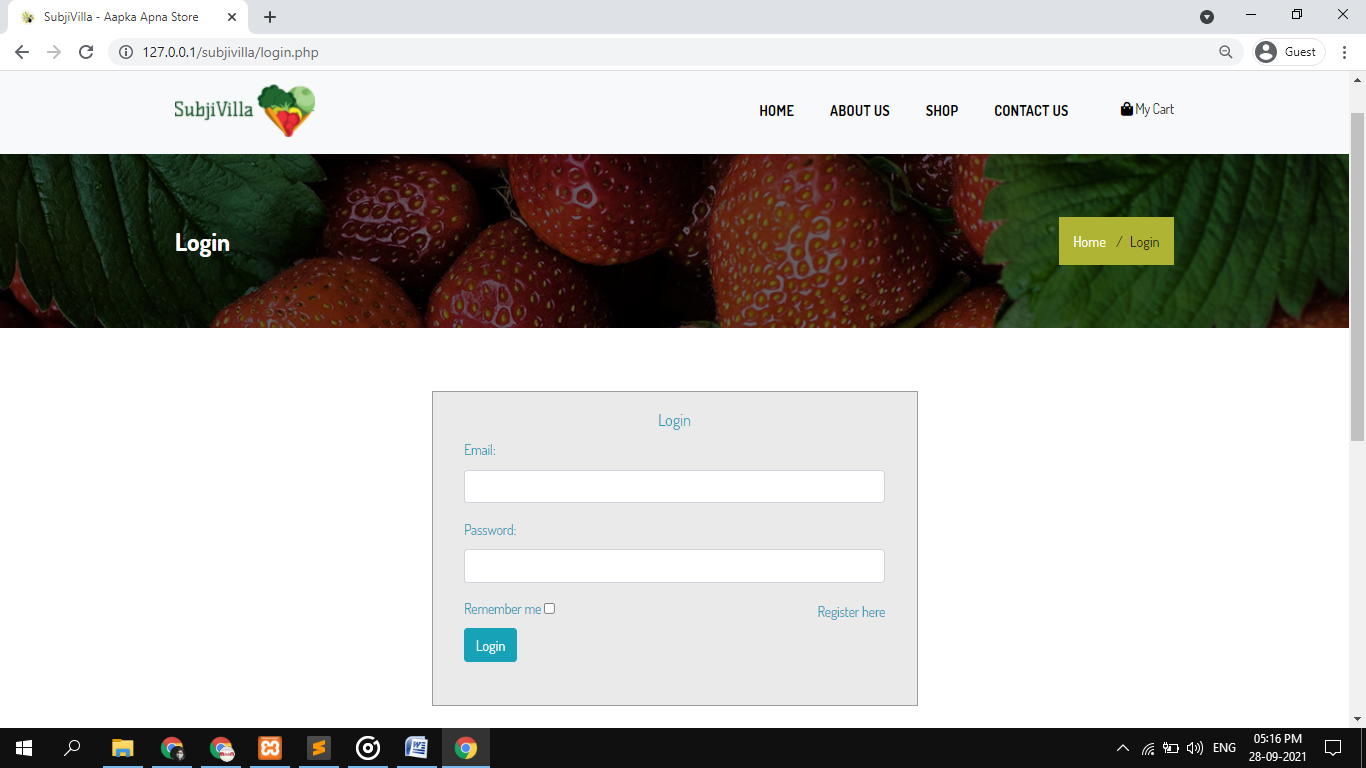
It helps in optimizing the code it helps in removing the extra lines of code, which can bring in hidden defects.

**11. ScreenShot**

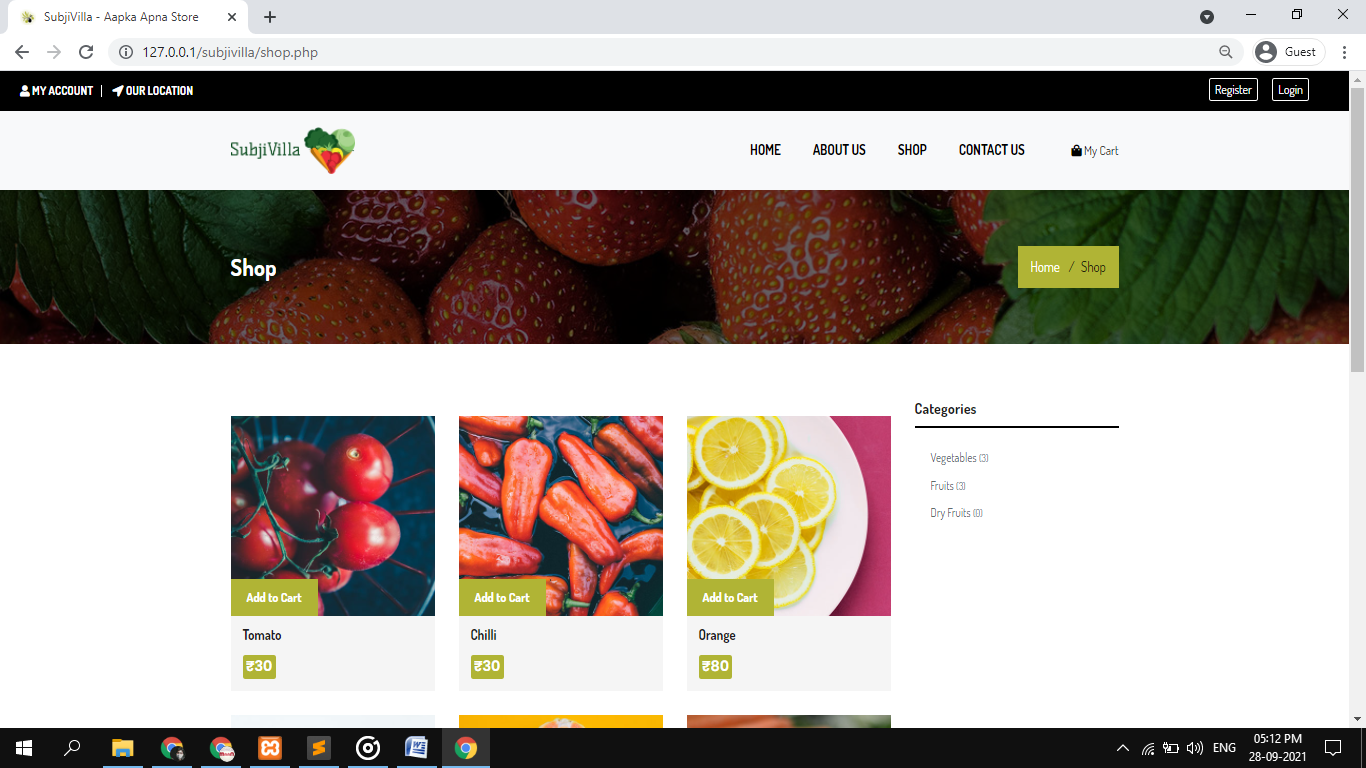
* **Client side home page: -**



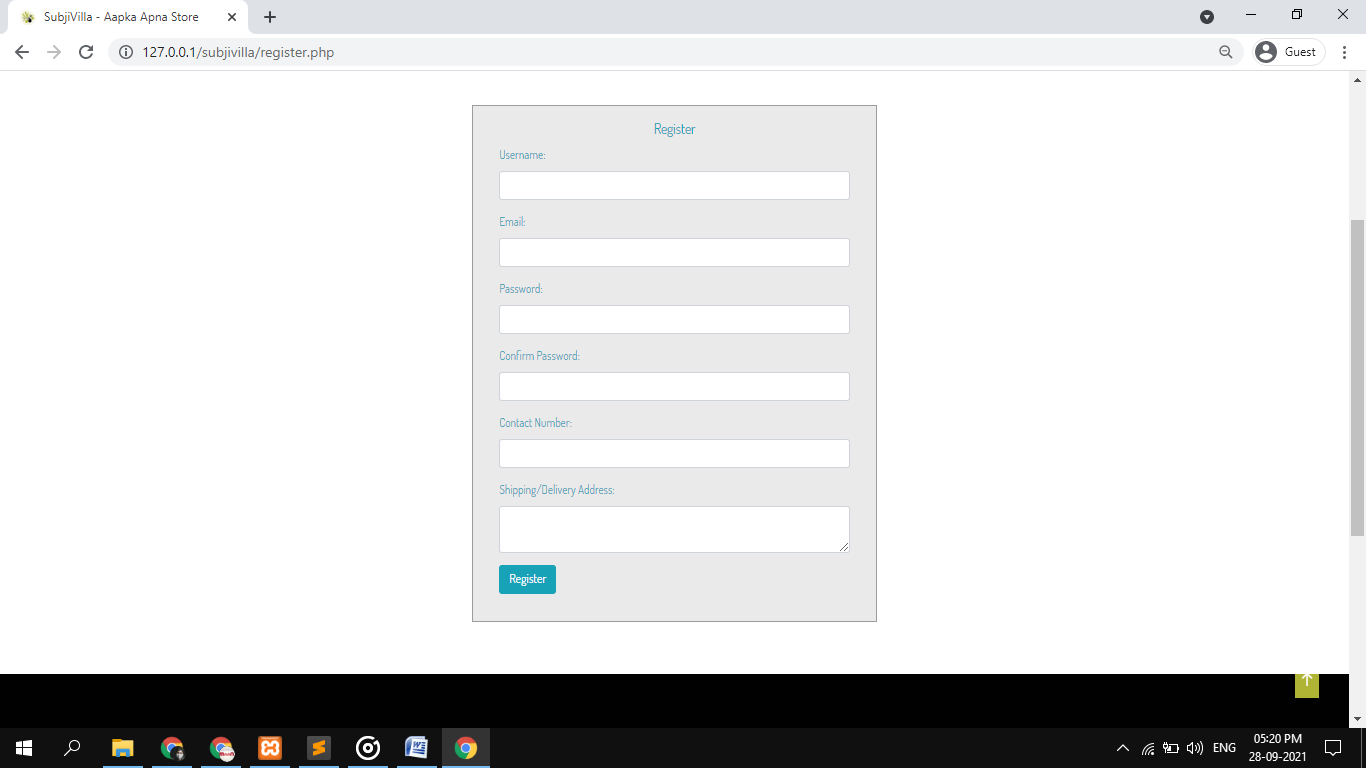
* **Client side Login Page :-**



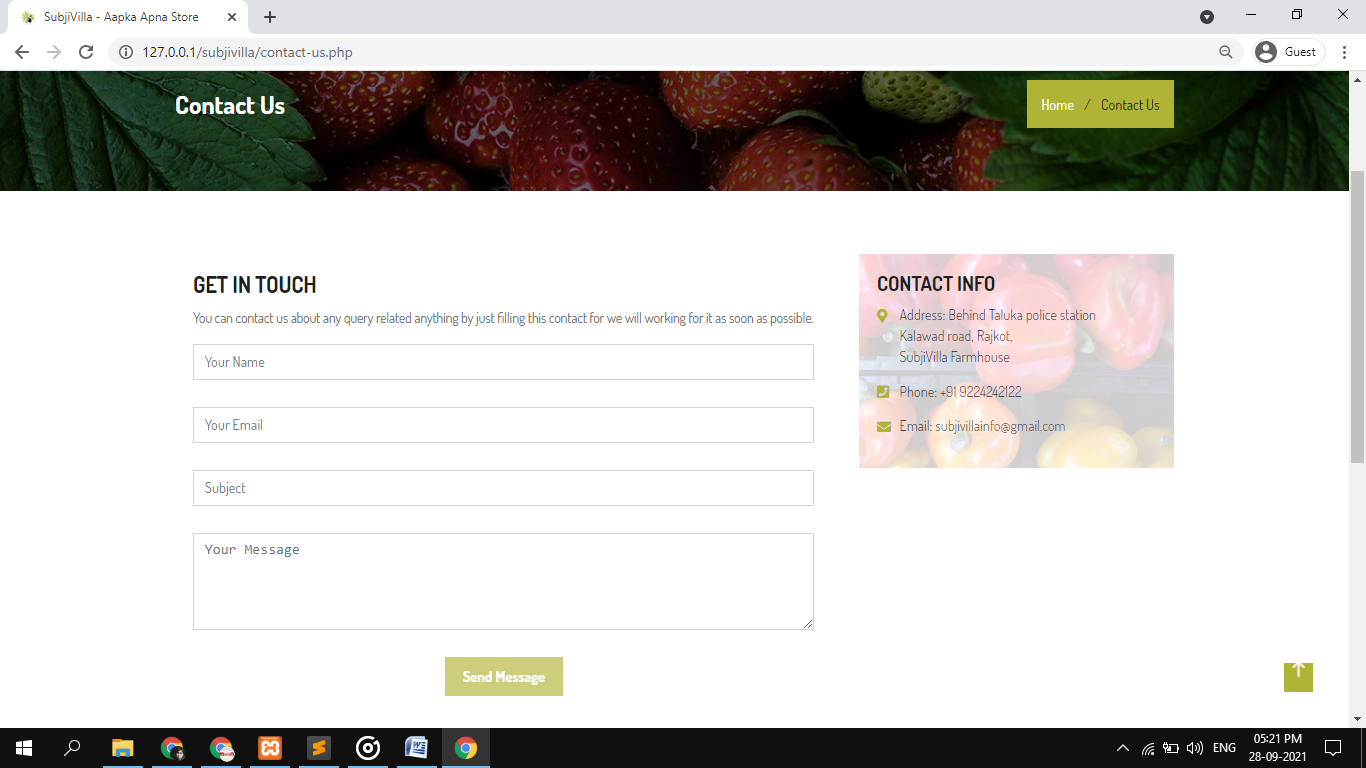
* **Client side shopping page:**



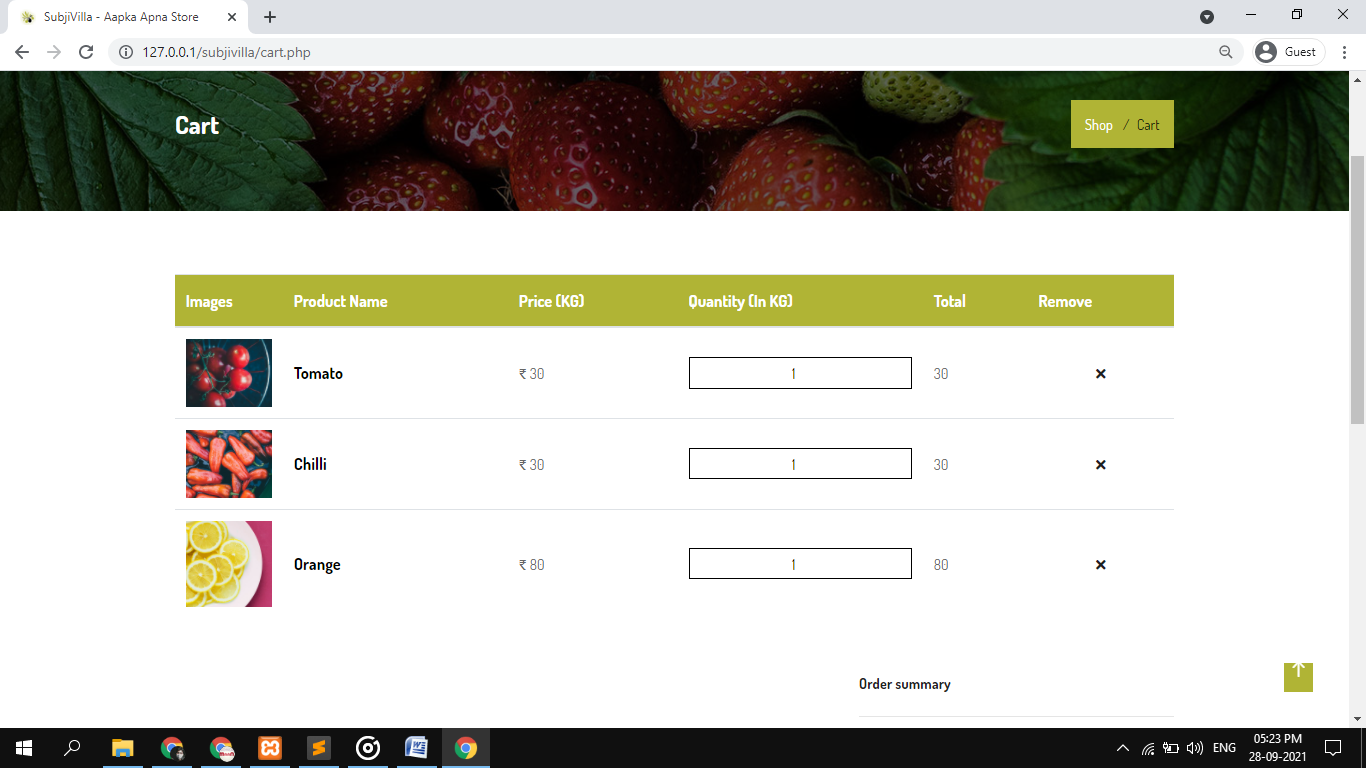
* **Client side Registration Page:**



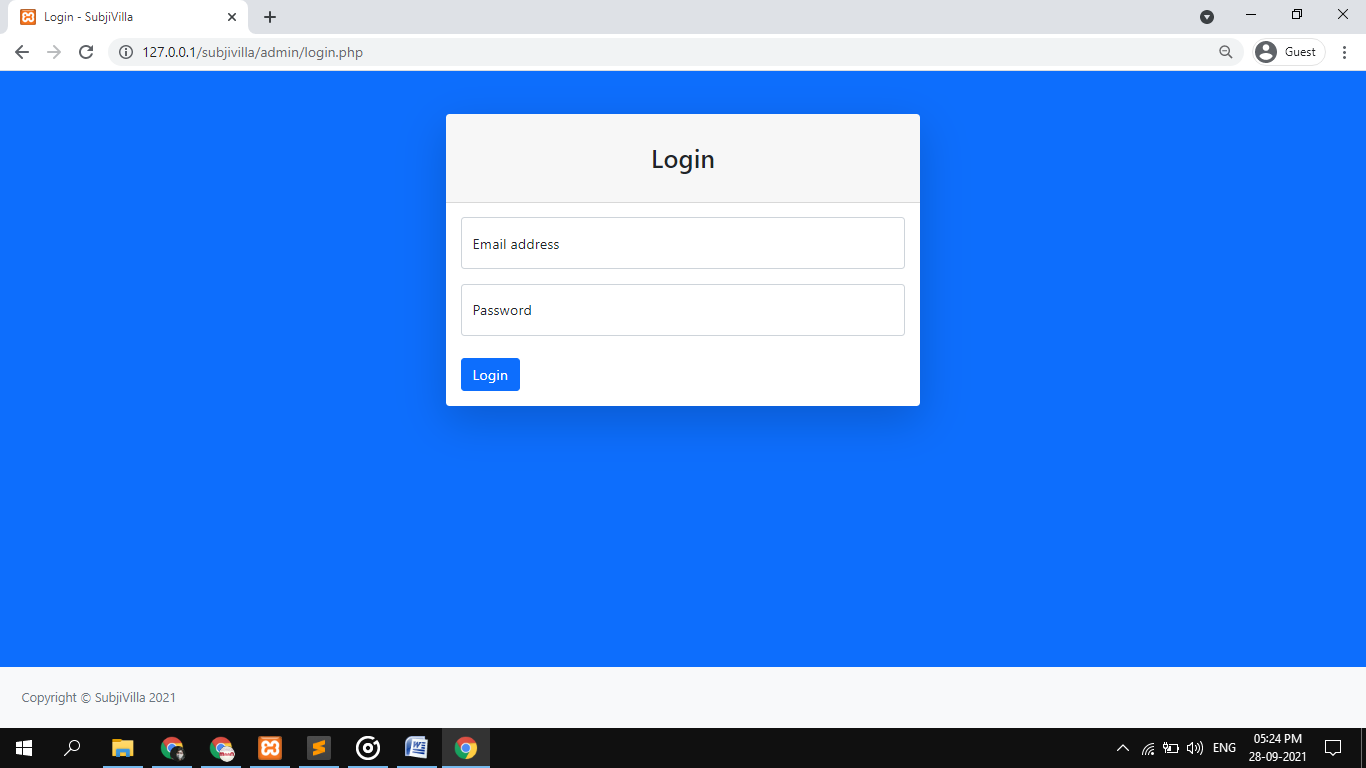
* **Client side Contact Page:**



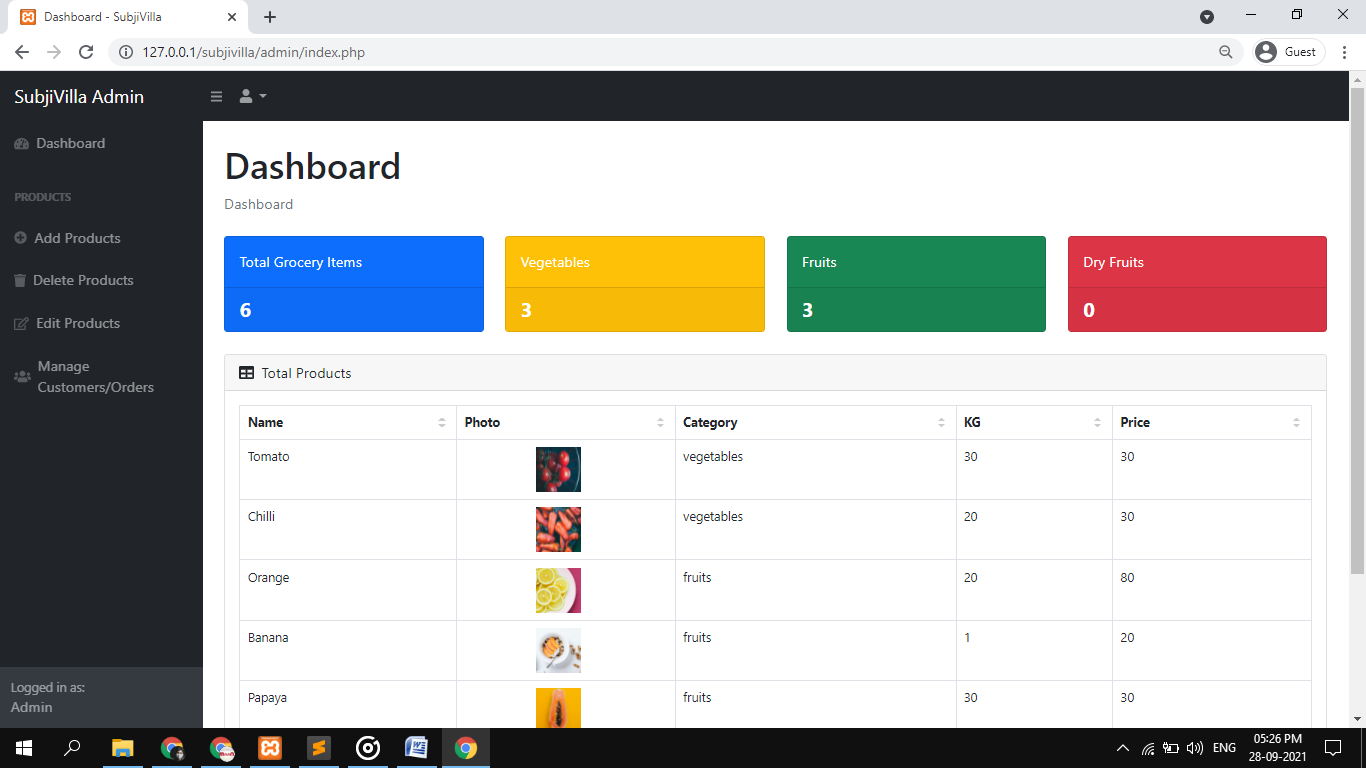
* **Cart Page:**



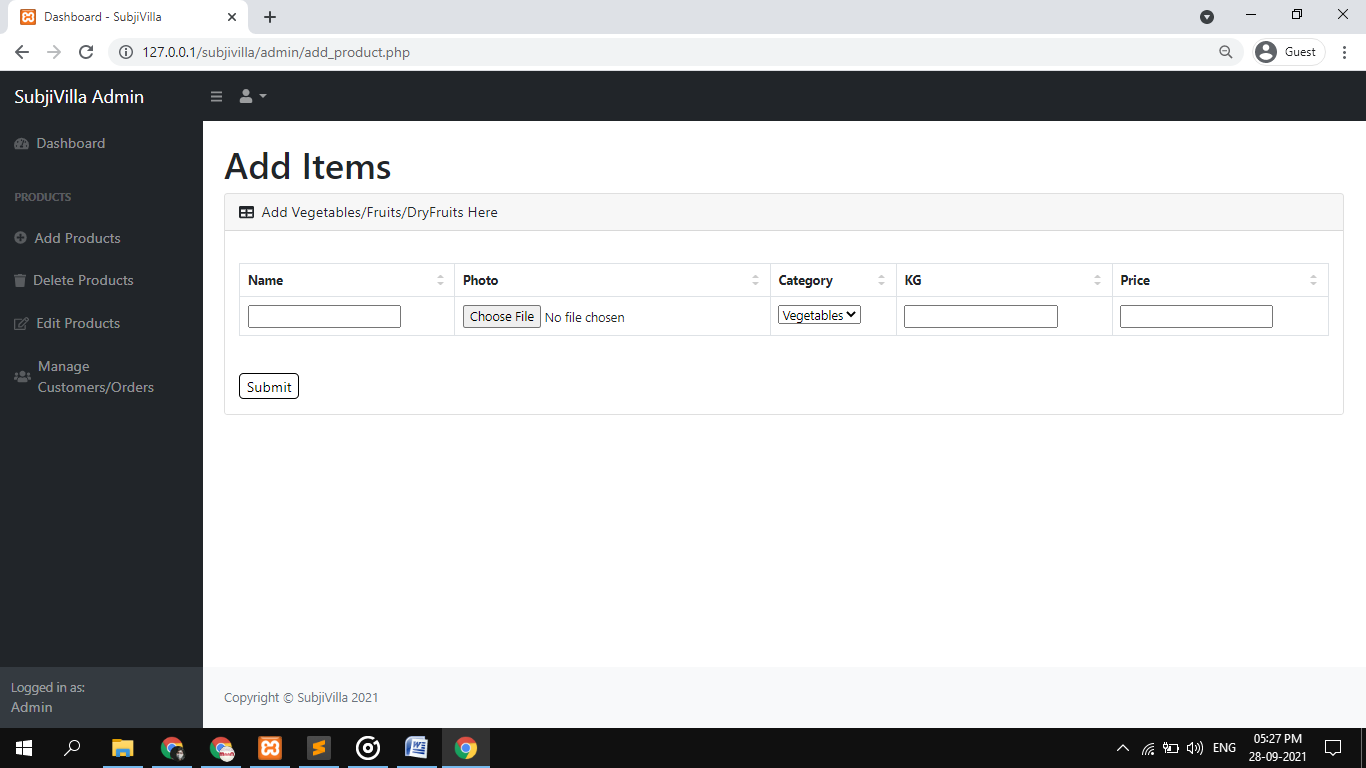
* **Admin side Login Page:**



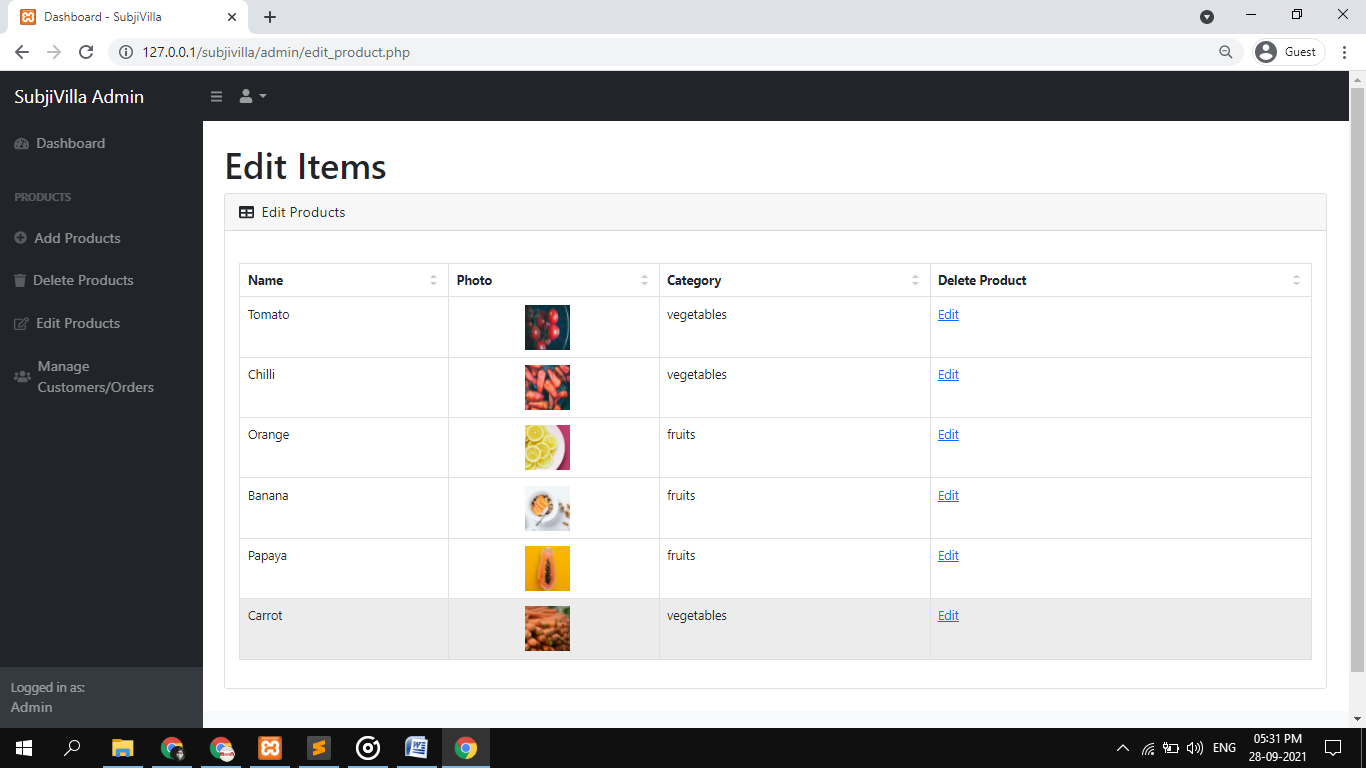
* **Admin side Home Page:**



* **Admin side Add Vegetable Page:**



* **Admin Side Edit Product Page:**



**12. Limitation and Future Enhancement**

* **Limitation**
* **Future Enhancement**
* **Conclusion**
* **References**
* **Limitation**
* Our Website not Provide Online Banking Facilities.
* **Future Enhancement**
* We want to expand our business other places.
* We also add more grocery items in future.
* **Conclusion**
* The Project report entitled “Kruap jwellery” has come to its conclusion.
* The new System has been developed with so much care that it is free of errors and at the same time efficient and less time consuming.
* System is robust. Also Provision is provided for future Developments in the System.
* **References:**
* **Websites**
* [www.google.com](http://www.google.com/)
* [www.wikipedia.com](http://www.wikipedia.com/)
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* [www.youtube.com](http://www.youtube.com/)