

A
REPORT
On
E-commerce Website
*Submitted
In partial fulfilment
For the award of the Degree of*

**Bachelor of Technology in Department of Computer
Science Engineering**



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Candidate's Declaration

I hereby declare that the work, which is being presented in the Project Report, entitled "**Web Development with PHP**" in partial fulfilment for the award of Degree of Bachelor of Technology" in Deptt. Of **Computer Science and Engineering** and submitted to the Department of **Computer Science and Engineering, GLA University**, is a record of my own investigations carried under the Guidance of **Mr. Brajesh kumar** Department of **Computer Science and Engineering**,

GLA University

I have not submitted the matter presented in this Project Report anywhere for the award of any other Degree.

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ABSTRACT

Our project is **E-commerce**. This is a website which helps students to find and buy all type of books on internet. It is useful in the way that it makes an easier way to buy and sell books online. **E-commerce** is an interactive e-commerce solution providing users with an opportunity to buy and sell books. **E-commerce** is the first online platform which deals with new and old books of all fields.

In this website we have basically 2 modules. The first module includes the customer module and second module includes admin module.

The customer have to register for any enquiry related to books. The registered customer can view details of books and he/she can buy or sell the books of his/her need. He/she has to pay and will get home delivery.

The admin module contains the access of admin page on the website. The admin can change everything in the website. He have the ability to add, delete, and update any information regarding the books.

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CHAPTER- I

INTRODUCTION

Education, An integral part of our Indian Society and it is important for every individual to succeed in his life and help bring change to our world. In a country with more than 1.3 billion people living, for everyone individual education is essential. To keep learning and developing themselves and helping our environment, economy, social life be sustainable.

E-commerce is an interactive e-commerce solution providing users with an opportunity to buy and sell books. **E-commerce** is the first online platform which deals with new and old books of all fields, we deliver a constructive service to each and every person of Jammu & Kashmir to furnish their needs in terms of learning, education and technology by providing them with an online platform where they can Buy and sell books for affordable price and even they can sell their used books on our website and also get books on rent. **E-commerce** provides users with wide range of pre-owned books which get a check based on their condition and fixed to its best and delivered to consumer 's doorsteps.

1.1 OBJECTIVES

Online Shopping is the process whereby consumers directly buy goods and services without any intermediary service over the internet. The goal of this website is to develop a web based interface for students of Jammu and Kashmir, the website would be easy to use and hence the shopping experience pleasant for the users. The main goal of this website is:

- I. To develop an easy to use web based interface where students can search for product (books), view a complete description of the product and order the product.
- II. A student can buy and sell books from home.
- III. A student can get books on rent.

CHAPTER-2

WEB-DEVELOPMENT:

Web development is a broad term for the work involved in developing a web site for the Internet (World Wide Web) or an intranet (a private network). Web development can range from developing the simplest static single page of plain text to the most complex web-based internet applications, electronic businesses, and social network services. A more comprehensive list of tasks to which web development commonly refers, may include web engineering, web design, web content development, client liaison, client-side/side scripting, web server and network security configuration, and e-commerce development. Among web professionals, "web development" usually refers to the main non-design aspects of building web sites: writing markup and coding. Most recently Web development has come to mean the creation of content management systems or CMS. These CMS can be made from scratch, proprietary or open source. In broad terms the CMS acts as middleware between the database and the user through the browser. A principle benefit of a CMS is that it allows non-technical people to make changes to their web site without having technical knowledge.

For larger organizations and businesses, web development teams can consist of hundreds of people (web developers) and follow standard methods like Agile methodologies while developing websites. Smaller organizations may only require a single permanent or contracting developer, or secondary assignment to related job positions such as a graphic designer or information systems technician. Web development may be a collaborative effort between departments rather than the domain of a designated department. There are three kind of web developer specialization: front-end developer, back-end developer, and full-stack developer.

2.1 WEB-SITE

A **website** is a collection of related web pages, including multimedia content, typically identified with a common domain name, and published on at least one web server. A website may be accessible via a public Internet Protocol (IP) network, such as the Internet, or a private local area network (LAN), by referencing a uniform resource locator (URL) that identifies the site.

Websites have many functions and can be used in various fashions; a website can be a personal website, a commercial website for a company, a government website or a non-profit organization website. Websites are typically dedicated to a particular topic or purpose, ranging from entertainment and social networking to providing news and education. All publicly accessible websites collectively constitute the World Wide Web, while private websites, such as a company's website for its employees, and are typically a part of an intranet.

Web pages, which are the building blocks of websites, are documents, typically composed in plain text interspersed with formatting instructions of Hypertext Markup Language (HTML, XHTML). They may incorporate elements from other websites with

suitable markup anchors. Web pages are accessed and transported with the Hypertext Transfer Protocol (HTTP), which may optionally employ encryption (HTTP Secure, HTTPS) to provide security and privacy for the user. The user's application, often a web browser, renders the page content according to its HTML markup instructions onto a display terminal.

Hyperlinking between web pages conveys to the reader the site structure and guides the navigation of the site, which often starts with a home page containing a directory of the site web content. Some websites require user registration or subscription to access content. Examples of subscription websites include many business sites, news websites, academic journal websites, gaming websites, file-sharing websites, message boards, web-based email, social networking websites, websites providing real-time stock market data, as well as sites providing various other services. As of 2016 end users can access websites on a range of devices, including desktop and laptop computers, tablet computers, smartphones and smart TVs.

A web site consists of web pages which are interconnected to each other and contain various data and functionalities.

2.2 WEB-PAGE

A **web page**, or **webpage**, is a document that is suitable for the World Wide Web and web browsers. A web browser displays a web page on a monitor or mobile device. The web page is what displays, but the term also refers to a computer file, usually written in HTML or comparable markup language. Web browsers coordinate the various web resource elements for the written web page, such as style sheets, scripts, and images, to present the web page.

Typical web pages provide hypertext that includes a navigation bar or a sidebar menu to other web pages via hyperlinks, often referred to as links.

On a network, a web browser can retrieve a web page from a remote web server. On a higher level, the web server may restrict access to only a private network such as a corporate intranet or it provides access to the World Wide Web. On a lower level, the web browser uses the Hypertext Transfer Protocol (HTTP) to make such requests.

A static web page is delivered exactly as stored, as web content in the web server's file system, while a dynamic web page is generated by a web application that is driven by server-side software or client-side scripting. Dynamic website pages help the browser (the client) to enhance the web page through user input to the server.

CHAPTER-3

THE STEPS TO CREATE A WEB SITE

Creating a web site requires multiple steps which includes the following:

- Creating a UI(User interface)
- Scripting(Both at server end and client end)
- Creating a backend or the database

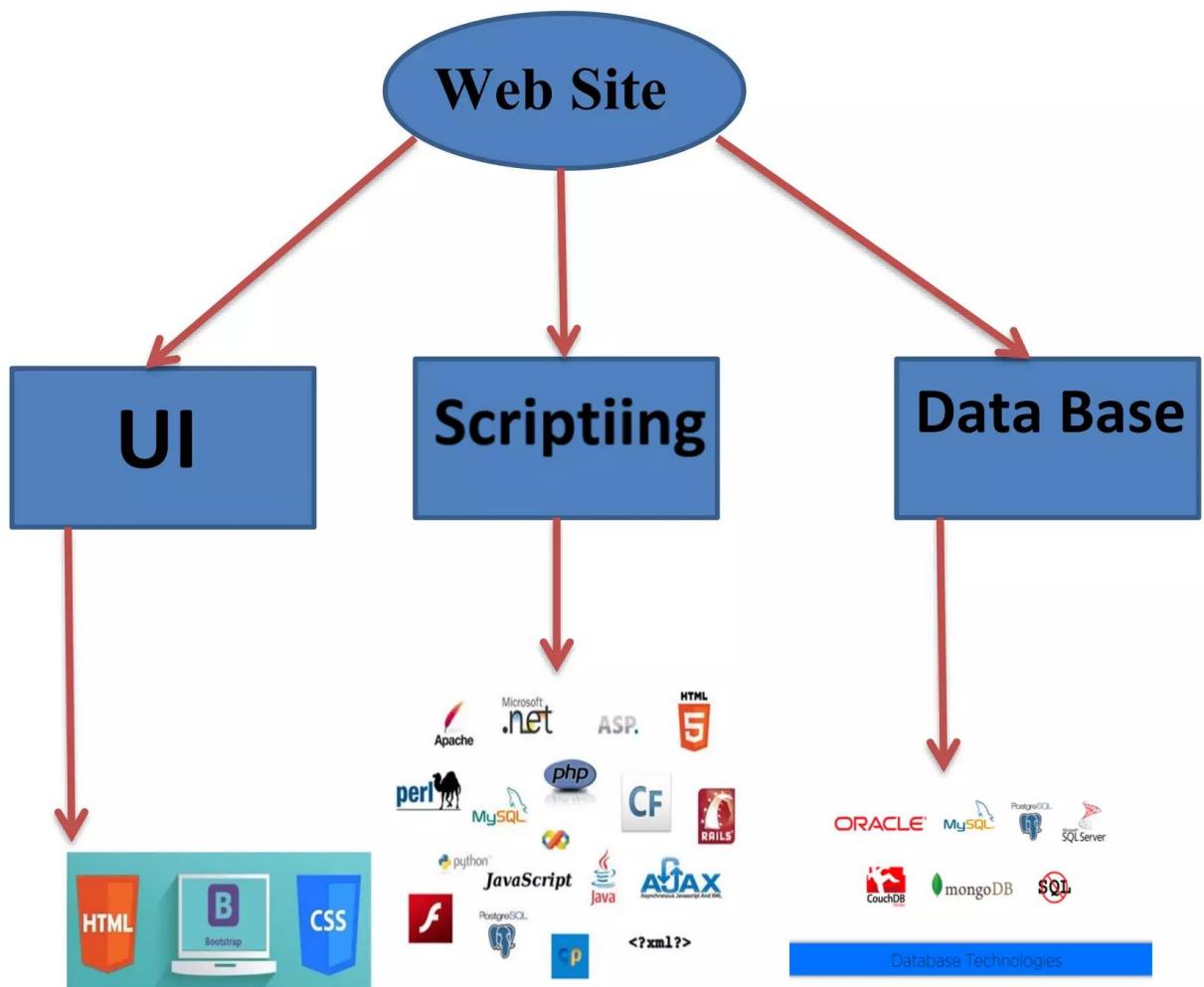


Fig 3.1

3.1 UI DEVELOPMENT

Technologies that are mostly used to develop a User Interface are:

- HTML
- CSS
- Bootstrap.

3.1.1 HTML

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a webserver or from local storage and render them into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects, such as interactive forms, may be embedded into the rendered page. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as `` and `<input />` introduce content into the page directly. Others such as `<p>...</p>` surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.

HTML can embed programs written in a scripting language such as JavaScript which affect the behavior and content of web pages. Inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), maintainer of both the HTML and the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997.

HTML markup consists of several key components, including those called tags (and their attributes), character-based data types, character references and entity references. HTML tags most commonly come in pairs like `<h1>` and `</h1>`, although some represent empty elements and so are unpaired, for example ``. The first tag in such a pair is the start tag, and the second is the end tag (they are also called opening tags and closing tags).

Another important component is the HTML document type declaration, which triggers standards mode rendering.

The following is an example of the classic Hello world program, a common test employed for comparing programming languages, scripting languages and markup languages. This example is made using 9 lines of code:

General Syntax of HTML

```
<!DOCTYPE html>
<html>
  <head>
    <title>This is a title</title>
  </head>
  <body>
    <p>Hello world!</p>
  </body>
</html>
```

(The text between `<html>` and `</html>` describes the web page, and the text between `<body>` and `</body>` is the visible page content. The markup text "`<title>This is a title</title>`" defines the browser page title.)

The Document Type Declaration `<!DOCTYPE html>` is for HTML5. If a declaration is not included, various browsers will revert to "quirks mode" for rendering.

3.1.2 CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document, including plain XML, SVG and XUL, and is applicable to rendering in speech, or on other media. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications.

CSS is designed primarily to enable the separation of presentation and content, including aspects such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple HTML pages to share formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content.

Separation of formatting and content makes it possible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speech-based browser or screen reader), and on Braille-based tactile devices. It can also display

the web page differently depending on the screen size or viewing device. Readers can also specify a different style sheet, such as a CSS file stored on their own computer, to override the one the author specified.

Changes to the graphic design of a document (or hundreds of documents) can be applied quickly and easily, by editing a few lines in the CSS file they use, rather than by changing markup in the documents.

The CSS specification describes a priority scheme to determine which style rules apply if more than one rule matches against a particular element. In this so-called cascade, priorities (or weights) are calculated and assigned to rules, so that the results are predictable.

The CSS specifications are maintained by the World Wide Web Consortium (W3C). Internet media type (MIME type) text/css is registered for use with CSS by RFC 2318 (March 1998). The W3C operates a free CSS validation service for CSS documents.

Types of CSS:

- Inline CSS:

In this CSS is applied in between the tags

Eg: <tag style="styling">Hello World</tag>

- Internal CSS:

In this Thecss code is defined inside the style tag in the head section of the HTML page.

General Syntax:

```
<html>
  <head>
    <style>
      <! -- CSS STYLING -- >
    </style>
  </head>
</html>
```

- External CSS:

In this the CSS code is written on another page and is linked to the HTML page. It is advantageous to use this type of styling as we can use the same file to style various HTML pages.

External CSS uses the extension .css and is applied using the following syntax

```
<html>
  <head>
    <link relation="stylesheet" type="css" href="url to the page">
  </head>
</html>
```

All the CSS style types are important but can be used in different situations.

- Inline CSS is used when only small changes are to be done to the HTML tag and the changes are to be reflected only to that specific tag
- Internal CSS is used when the individual HTML pages have to be designed differently. This also slows the page load system if the internal styling is long.
- External CSS files are maintained to design multiple pages and use common styles over various pages. It is useful as it helps in managing the resources in an easy manner.

Both HTML and CSS are used to create a UI but CSS behaves like a makeup on the face of an actress which makes her look even more beautiful than she is in reality.

And here is the difference:

Before using CSS in HTML page:

Enter your account details to login!

Fig 3.2

After using CSS in HTML Page:



SIGN IN

Hello, Welcome to your account.

Email Address *

Password *

[Forgot your Password?](#)

[LOGIN](#)

Fig 3.3

3.1.3 BOOTSTRAP

Bootstrap is a free and open-source front-end web framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. Unlike many web frameworks, it concerns itself with front-end development only.

Bootstrap is the second most-starred project on GitHub, with more than 107,000 stars and 48,000 forks.

Bootstrap, originally named Twitter Blueprint, was developed by Mark Otto and Jacob Thornton at Twitter as a framework to encourage consistency across internal tools. Before Bootstrap, various libraries were used for interface development, which led to inconsistencies and a high maintenance burden. According to twitter developer Mark Otto:

A super small group of developers and I got together to design and build a new internal tool and saw an opportunity to do something more. Through that process, we saw ourselves build something much more substantial than another internal tool. Months later, we ended up with an early version of Bootstrap as a way to document and share common design patterns and assets within the company.

After a few months of development by a small group, many developers at Twitter began to contribute to the project as a part of Hack Week, a hackathon-style week for the Twitter development team. It was renamed from Twitter Blueprint to Bootstrap, and released as an

open source project on August 19, 2011. It has continued to be maintained by Mark Otto, Jacob Thornton, and a small group of core developers, as well as a large community of contributors.

On January 31, 2012, Bootstrap 2 was released, which added a twelve-column responsive grid layout system, inbuilt support for Glyphicons, several new components, as well as changes to many of the existing components.

On August 19, 2013, Bootstrap 3 was released, which redesigned components to use flat design, and a mobile first approach.

On October 29, 2014, Mark Otto announced that Bootstrap 4 was in development. The first alpha version of Bootstrap 4 was released on August 19, 2015.

Bootstrap 3 supports the latest versions of the Google Chrome, Firefox, Internet Explorer, Opera, and Safari (except on Windows). It additionally supports back to IE8 and the latest Firefox Extended Support Release (ESR).

Since 2.0, Bootstrap supports responsive web design. This means the layout of web pages adjusts dynamically, taking into account the characteristics of the device used (desktop, tablet, mobile phone).

Starting with version 3.0, Bootstrap adopted a mobile-first design philosophy, emphasizing responsive design by default.

The version 4.0 alpha release added Sass and flexbox support.

Installing and linking bootstrap to the HTML page:

- Install bootstrap from <https://getbootstrap.com/>
- Copy the bootstrap.min.css file to your CSS folder and link it to the HTML page in the similar manner to how any other CSS file is linked.
- Link the bootstrap.min.js file which is present in the JS folder of the bootstrap. It can be linked using script tag.

Eg: <script src="url to bootstrap.min.js"></script>

- Now use bootstrap classes to reduce the work of designing which was earlier done through CSS.

3.2 SCRIPTING

There are two scripting methodologies.

1. Server side scripting: This scripting is done at the server end
2. Client side scripting: This scripting is done at the client end or the browser.

3.2.1 SERVER SIDE SCRIPTING

Server-side scripting is a technique used in web development which involves employing scripts on a web server which produce a response customized for each user's (client's) request to the website. The alternative is for the web server itself to deliver a static web page. Scripts can be written in any of a number of server-side scripting languages that are available (see below). Server-side scripting is distinguished from client-side scripting where embedded scripts, such as JavaScript, are run client-side in a web browser, but both techniques are often used together.

Server-side scripting is often used to provide a customized interface for the user. These scripts may assemble client characteristics for use in customizing the response based on those characteristics, the user's requirements, access rights, etc. Server-side scripting also enables the website owner to hide the source code that generates the interface, whereas with client-side scripting, the user has access to all the code received by the client. A down-side to the use of server-side scripting is that the client needs to make further requests over the network to the server in order to show new information to the user via the web browser. These requests can slow down the experience for the user, place more load on the server, and prevent use of the application when the user is disconnected from the server.

When the server serves data in a commonly used manner, for example according to the HTTP or FTP protocols, users may have their choice of a number of client programs (most modern web browsers can request and receive data using both of those protocols). In the case of more specialized applications, programmers may write their own server, client, and communications protocol that can only be used with one another.

Programs that run on a user's local computer without ever sending or receiving data over a network are not considered clients, and so the operations of such programs would not be considered client-side operations.

3.2.2 Server Side scripting Languages

There are several languages that can be used for server-side programming:

- PHP
- ASP.NET (C# OR Visual Basic)
- C++
- Java and JSP
- Python
- Ruby on Rails and so on.

Programming Language Popularity By Github Projects

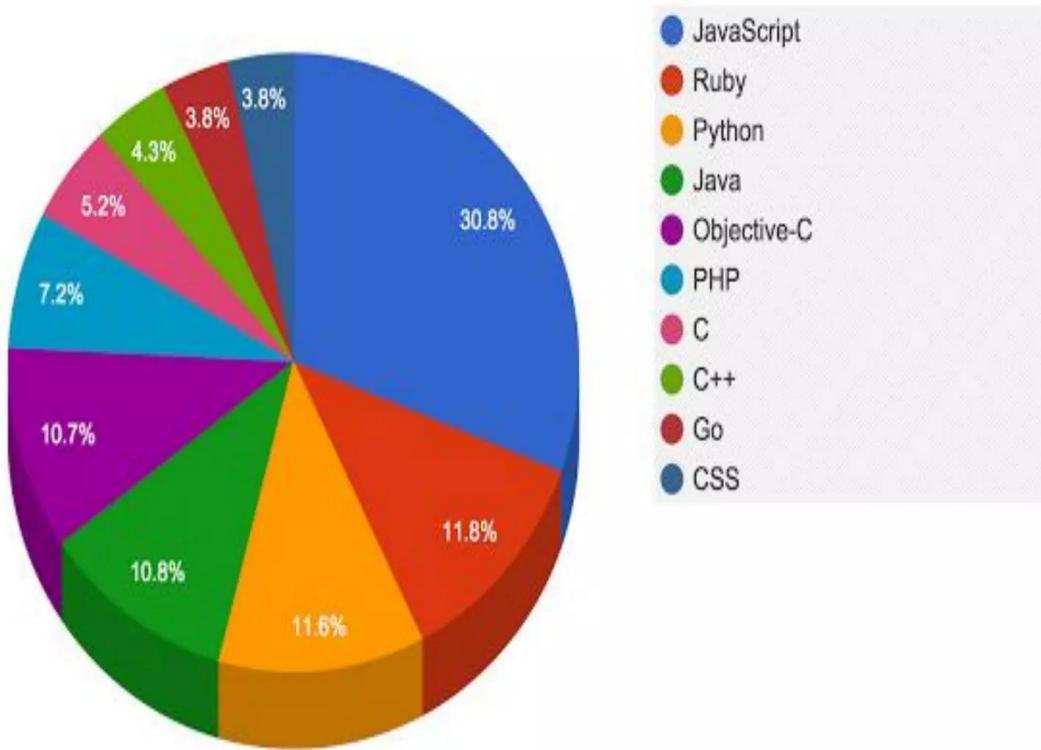


Fig 3.2.1

3.2.3 CLIENT SIDE SCRIPTING

Client-side scripting is changing interface behaviors within a specific web page in response to mouse or keyboard actions, or at specified timing events. In this case, the dynamic behavior occurs within the presentation. The client-side content is generated on the user's local computer system.

Such web pages use presentation technology called rich interfaced pages. Client-side scripting languages like JavaScript or ActionScript, used for Dynamic HTML (DHTML) and Flash technologies respectively, are frequently used to orchestrate media types (sound, animations, changing text, etc.) of the presentation. Client-side scripting also allows the use of

remote scripting, a technique by which the DHTML page requests additional information from a server, using a hidden frame, XML Http Requests, or a Web service.

The first widespread use of JavaScript was in 1997, when the language was standardized as ECMAScript and implemented in Netscape 3.

Example:

The client-side content is generated on the client's computer. The web browser retrieves a page from the server, then processes the code embedded in the page (typically written in JavaScript) and displays the retrieved page's content to the user.

The most popularly used client side scripting languages is **Java Script**. Flow of request from browser to server:

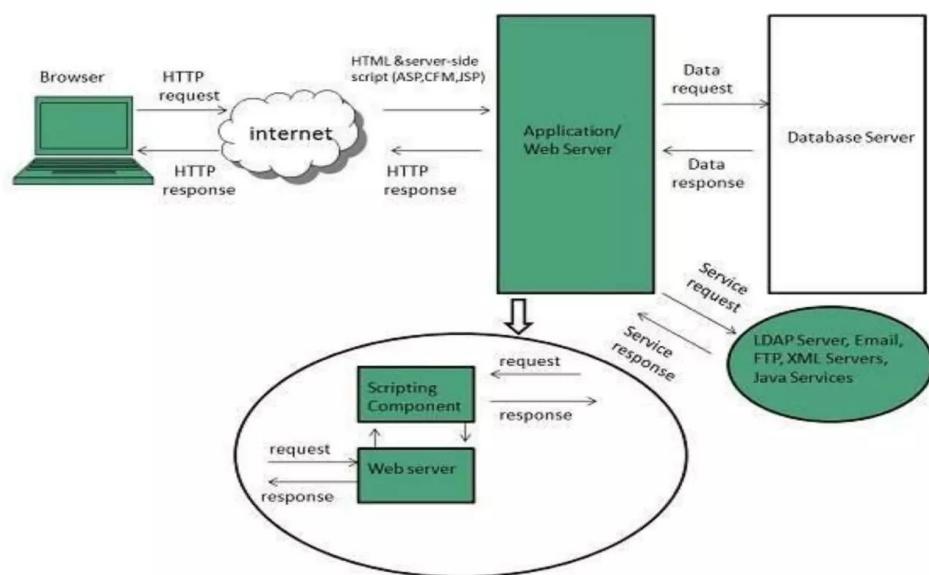


Fig 3.2.2

4.3 DATABASE

A **database** is an organized collection of data. It is the collection of schemas, tables, queries, reports, views, and other objects. The data are typically organized to model aspects of reality in a way that supports processes requiring information, such as modelling the availability of rooms in hotels in a way that supports finding a hotel with vacancies.

A **database management system (DBMS)** is a computer software application that interacts with the user, other applications, and the database itself to capture and analyze data. A general-purpose DBMS is designed to allow the definition, creation, querying, update, and administration of databases. Well-known DBMSs include MySQL, PostgreSQL, MongoDB, MariaDB, Microsoft SQL Server, Oracle, Sybase, SAP HANA, MemSQL and IBM DB2. A

database is not generally portable across different DBMSs, but different DBMS can interoperate by using standards such as SQL and ODBC or JDBC to allow a single application to work with more than one DBMS. Database management systems are often classified according to the database model that they support; the most popular database systems since the 1980s have all supported the relational model as represented by the SQL language. Sometimes a DBMS is loosely referred to as a "database".

3.4 SQL

Originally based upon relational algebra and tuple relational calculus, SQL consists of a data definition language, data manipulation language, and data control language. The scope of SQL includes data insert, query, update and delete, schema creation and modification, and data access control. Although SQL is often described as, and to a great extent is, a declarative language (4GL), it also includes procedural elements.

SQL was one of the first commercial languages for Edgar F. Codd's relational model, as described in his influential 1970 paper, "A Relational Model of Data for Large Shared Data Banks." Despite not entirely adhering to the relational model as described by Codd, it became the most widely used database language.

SQL became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987. Since then, the standard has been revised to include a larger set of features. Despite the existence of such standards, most SQL code is not completely portable among different database systems without adjustments.

3.5 QUERIES

The most common operation in SQL, the query, makes use of the declarative SELECT statement. SELECT retrieves data from one or more tables, or expressions. Standard SELECT statements have no persistent effects on the database. Some non-standard implementations of SELECT can have persistent effects, such as the SELECT INTO syntax provided in some databases.

Queries allow the user to describe desired data, leaving the database management system (DBMS) to carry out planning, optimizing, and performing the physical operations necessary to produce that result as it chooses.

A query includes a list of columns to include in the final result, normally immediately following the SELECT keyword. An asterisk ("*") can be used to specify that the query should return all columns of the queried tables. SELECT is the most complex statement in SQL, with optional keywords and clauses that include:

- The FROM clause, which indicates the table(s) to retrieve data from. The FROM clause can include optional JOIN subclauses to specify the rules for joining tables.

- The WHERE clause includes a comparison predicate, which restricts the rows returned by the query. The WHERE clause eliminates all rows from the result set where the comparison predicate does not evaluate to True.
- The GROUP BY clause projects rows having common values into a smaller set of rows. GROUP BY is often used in conjunction with SQL aggregation functions or to eliminate duplicate rows from a result set. The WHERE clause is applied before the GROUP BY clause.
- The HAVING clause includes a predicate used to filter rows resulting from the GROUP BY clause. Because it acts on the results of the GROUP BY clause, aggregation functions can be used in the HAVING clause predicate.
- The ORDER BY clause identifies which column[s] to use to sort the resulting data, and in which direction to sort them (ascending or descending). Without an ORDER BY clause, the order of rows returned by an SQL query is undefined.
- The DISTINCT keyword eliminates duplicate data.

CHAPTER-4

SCRIPTING LANGUAGES

4.1 PHP

Paradigm	Imperative, functional, object-oriented, procedural, reflective
Designed by	RasmusLerdorf
Developer	The PHP Development Team, Zend Technologies
First appeared	June 8, 1995; 21 years ago ^[1]
Stable release	7.1.5 / May 11, 2017; 16 days ago
Typing discipline	Dynamic, weak, gradual (as of PHP 7.0.0)
Implementation language	C (primarily; some components C++)
OS	Unix-like, Windows
License	PHP License (most of Zend Engine under Zend Engine License& The TSRM License)
Filename extensions	.php, .phtml, .php3, .php4, .php5, .php7, .phps
Website	php.net
Major implementations	
Zend Engine, HHVM, Phalanger, Quercus, Project Zero, Parrot	
Influenced by	
C, C++, Java, Perl, Tcl ^[1]	
Influenced	
Falcon, Hack	

PHP is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language. Originally created by RasmusLerdorf in 1994, the PHP reference implementation is now produced by The PHP Development Team. PHP originally stood for *Personal Home Page*, but it now stands for the recursive acronym *PHP: Hypertext Preprocessor*.

PHP code may be embedded into HTML or HTML5 markup, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server software combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and can be used to implement standalone graphical applications.

The standard PHP interpreter, powered by the Zend Engine, is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on almost every operating system and platform, free of charge.

The PHP language evolved without a written formal specification or standard until 2014, leaving the canonical PHP interpreter as a *de facto* standard. Since 2014 work has gone on to create a formal PHP specification.

4.2 Installing PHP

- I. Step 1: download the files. Download the latest PHP 5 ZIP package from www.php.net/downloads.php ...
- II. Step 2: extract the files. ...
- III. Step 3: configure php.ini. ...
- IV. Step 4: add C: php to the path environment variable. ...
- V. Step 5: configure PHP as an Apache module. ...
- VI. Step 6: test a PHP file.
- VII. Or we can install **Xampp** which have inbuilt php,mysql,apache server

We have used xampp to run the php files.

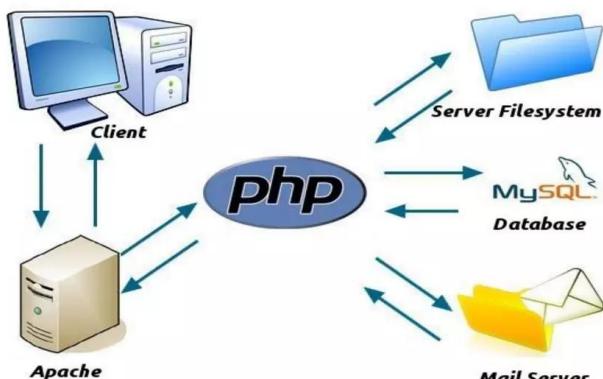


Fig 4.1.1
4.3 JAVA SCRIPT

JavaScript, often abbreviated as "JS", is a high-level, dynamic, untyped, and interpreted run-time language. It has been standardized in the ECMAScript language specification. Alongside HTML and CSS, JavaScript is one of the three core technologies of World Wide Web content production; the majority of websites employ it, and all modern Web browsers support it without the need for plug-ins. JavaScript is prototype-based with first-class functions, making it a multi-paradigm language, supporting object-oriented, imperative, and functional programming styles. It has an API for working with text, arrays, dates and regular expressions, but does not include any I/O, such as networking, storage, or graphics facilities, relying for these upon the host environment in which it is embedded.

Although there are strong outward similarities between JavaScript and Java, including language name, syntax, and respective standard libraries, the two are distinct languages and

differ greatly in their design. JavaScript was influenced by programming languages such as self and Scheme.

JavaScript is also used in environments that are not Web-based, such as PDF documents, site-specific browsers, and desktop widgets. Newer and faster JavaScript virtual machines (VMs) and platforms built upon them have also increased the popularity of JavaScript for server-side Web applications. On the client side, developers have traditionally implemented JavaScript as an interpreted language, but more recent browsers perform just-in-time compilation. Programmers also use JavaScript in video-game development, in crafting desktop and mobile applications, and in server-side network programming with run-time environments such as Node.js.

4.4 JQUERY

JQuery is a cross-platform JavaScript library designed to simplify the client-side scripting of HTML. It is free, open-source software using the permissive MIT license. Web analysis indicates that it is the most widely deployed JavaScript library by a large margin.

jQuery's syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications. jQuery also provides capabilities for developers to create plug-ins on top of the JavaScript library. This enables developers to create abstractions for low-level interaction and animation, advanced effects and high-level, themeable widgets. The modular approach to the jQuery library allows the creation of powerful dynamic web pages and Web applications.

The set of jQuery core features—DOM element selections, traversal and manipulation—enabled by its selector engine (named "Sizzle" from v1.3), created a new "programming style", fusing algorithms and DOM data structures. This style influenced the architecture of other JavaScript frameworks like YUI v3 and Dojo, later stimulating the creation of the standard Selectors API.

Microsoft and Nokia bundle jQuery on their platforms. Microsoft includes it with Visual Studio for use within Microsoft's ASP.NET AJAX and ASP.NET MVC frameworks while Nokia has integrated it into the Web Run-Time widget development platform.

4.5 AJAX

Ajax (also **AJAX** short for "asynchronous JavaScript and XML") is a set of Web development techniques using many Web technologies on the client side to create asynchronous Web applications. With Ajax, Web applications can send data to and retrieve from a server asynchronously (in the background) without interfering with the display and behavior of the existing page. By decoupling the data interchange layer from the presentation layer, Ajax allows for Web pages, and by extension Web applications, to change content

dynamically without the need to reload the entire page. In practice, modern implementations commonly substitute JSON for XML due to the advantages of being native to JavaScript.

Ajax is not a single technology, but rather a group of technologies. HTML and CSS can be used in combination to mark up and style information. The DOM is accessed with JavaScript to dynamically display – and allow the user to interact with – the information presented. JavaScript and the XMLHttpRequest object provide a method for exchanging data asynchronously between browser and server to avoid full page reloads.

4.6 JSON

In computing, **JavaScript Object Notation** or **JSON** (/dʒeɪson/ *JAY-sən*), is an open-standard file format that uses human-readable text to transmit data objects consisting of attribute–value pairs and array data types (or any other serializable value). It is a very common data format used for asynchronous browser/server communication, including as a replacement for XML in some AJAX-style systems.

JSON is a language-independent data format. It was derived from JavaScript, but as of 2017 many programming languages include code to generate and parse JSON-format data. The official Internet media type for JSON is application/json. JSON filenames use the extension .json.

Douglas Crockford originally specified the JSON format in the early 2000s; two competing standards, RFC 7159 and ECMA-404, defined it in 2013. The ECMA standard describes only the allowed syntax, whereas the RFC covers some security and interoperability considerations.^[3]

A restricted profile of JSON, known as **I-JSON** (short for "Internet JSON"), seeks to overcome some of the interoperability problems with JSON. It is defined in RFC 7493.

4.7 XAMPP



Xamp is a free and open source cross platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP stands for Cross-Platform (X), Apache (A), MariaDB (M), PHP (P) and Perl (P). It is a

simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing and deployment purposes. Everything needed to set up a web server – server application (Apache), database (MariaDB), and scripting language (PHP) – is included in an extractable file. XAMPP is also cross-platform, which means it works equally well on Linux, Mac and Windows. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server extremely easy as well.

4.8 FEATURES

XAMPP is regularly updated to the latest releases of Apache, MariaDB, PHP and Perl. It also comes with a number of other modules including OpenSSL, phpMyAdmin, MediaWiki, Joomla, WordPress and more. Self-contained, multiple instances of XAMPP can exist on a single computer, and any given instance can be copied from one computer to another. XAMPP is offered in both a full and a standard version (Smaller version).

4.9 USAGE

Officially, XAMPP's designers intended it for use only as a development tool, to allow website designers and programmers to test their work on their own computers without any access to the Internet. To make this as easy as possible, many important security features are disabled by default. XAMPP has the ability to serve web pages on the World Wide Web. A special tool is provided to password-protect the most important parts of the package.

XAMPP also provides support for creating and manipulating databases in MariaDB and SQLite among others. Once XAMPP is installed, it is possible to treat a localhost like a remote host by connecting using an FTP client. Using a program like FileZilla has many advantages when installing a content management system (CMS) like Joomla or WordPress. It is also possible to connect to localhost via FTP with an HTML editor.

CHAPTER-5

SOFTWARE REQUIREMENT SPECIFICATION

5.1 Hardware Requirements

The selection of hardware is very important in the existence and proper working of any software. When selecting hardware, the size and requirements are also important.

Processor	Intel CORE i5
RAM	4.0 GB
Hard Disk Drive	500 GB

7.2 Software Requirements

Number	Description
1	Windows 7,8,10
2	HTML/Css/Ajax/JavaScript/Bootstrap.
3	Apache server/ XAMPSERVER
4	PHP 5.5.38
4	MySQL
5	Compiler: MSVC11 (Visual C++ 2012)
6	Apache version: Apache/2.4.23 (Win32) OpenSSL/1.0.2h PHP/5.5.38

CHAPTER-6

DATA FLOW DIAGRAM

Data Flow Diagrams show the flow of data from external entities into the system, and from one process to another within the system. There are four symbols for drawing a DFD:

- I. Rectangles representing external entities, which are sources or destinations of data.
- II. Ellipses representing processes, which take data as input, validate and process it and output it.
- III. Arrows representing the data flows, which can either, be electronic data or physical items.
- IV. Open-ended rectangles or a Disk symbol representing data stores, including electronic stores such as databases or XML files and physical stores such as filing cabinets or stacks of paper.

Figures below are the Data Flow Diagrams for the current system. Each process within the system is first shown as a Context Level DFD and later as a Detailed DFD. The Context Level DFD provides a conceptual view of the process and its surrounding input, output and data stores. The Detailed DFD provides a more detailed and comprehensive view of the interaction among the sub-processes within the system.

CONTEXT LEVEL DIAGRAM



Fig 6.1

6.1 DFD-1

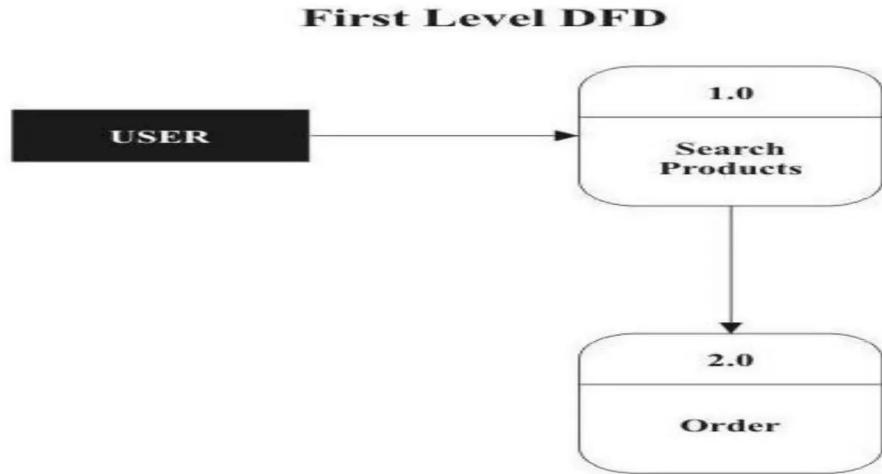


Fig 6.1.1

6.2 DFD-2

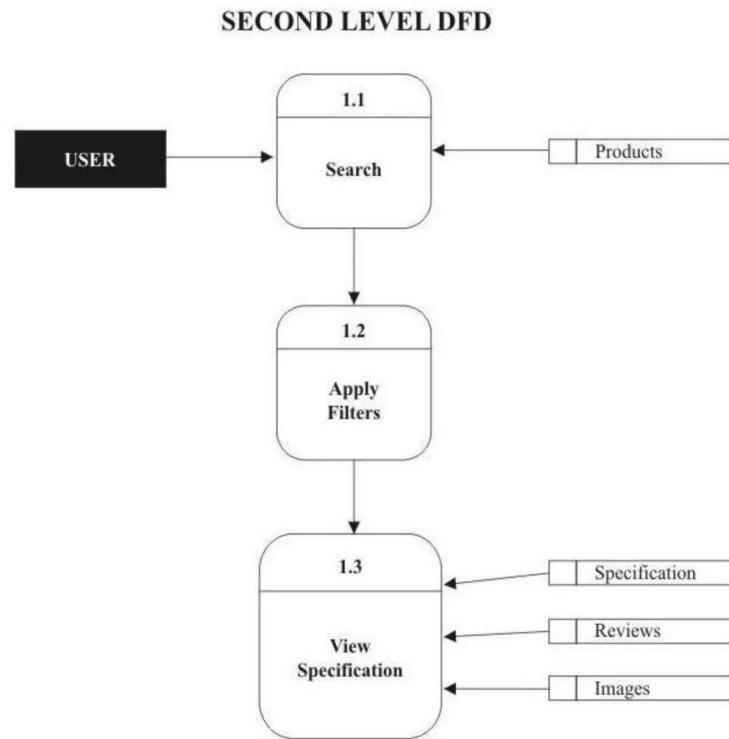


Fig 6.2.1

SECOND LEVEL DFD

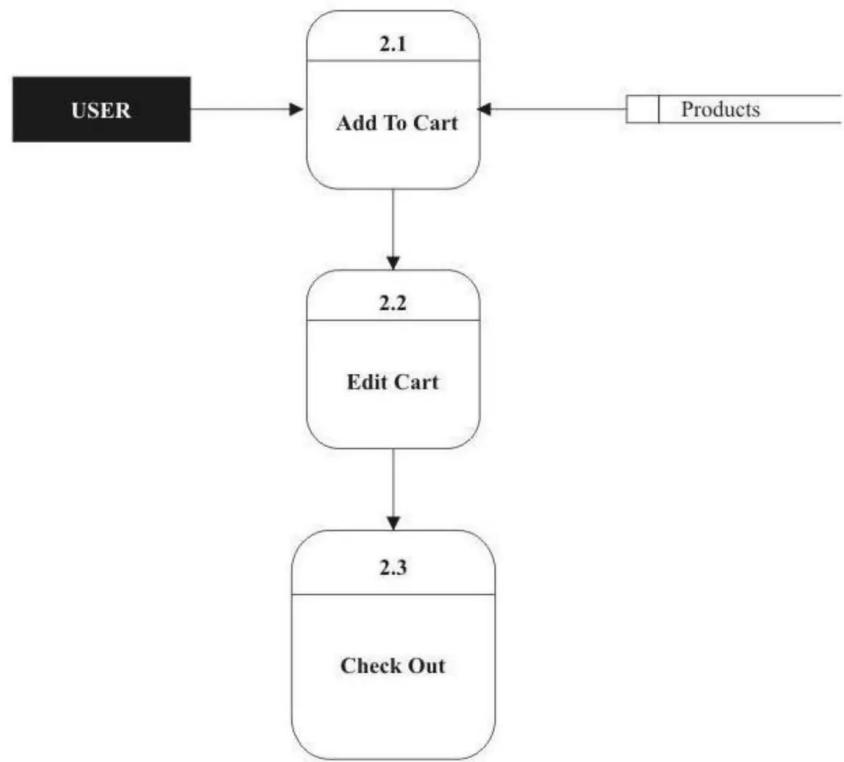


Fig 6.2.2

6.3 DFD-3

Use Case Diagram

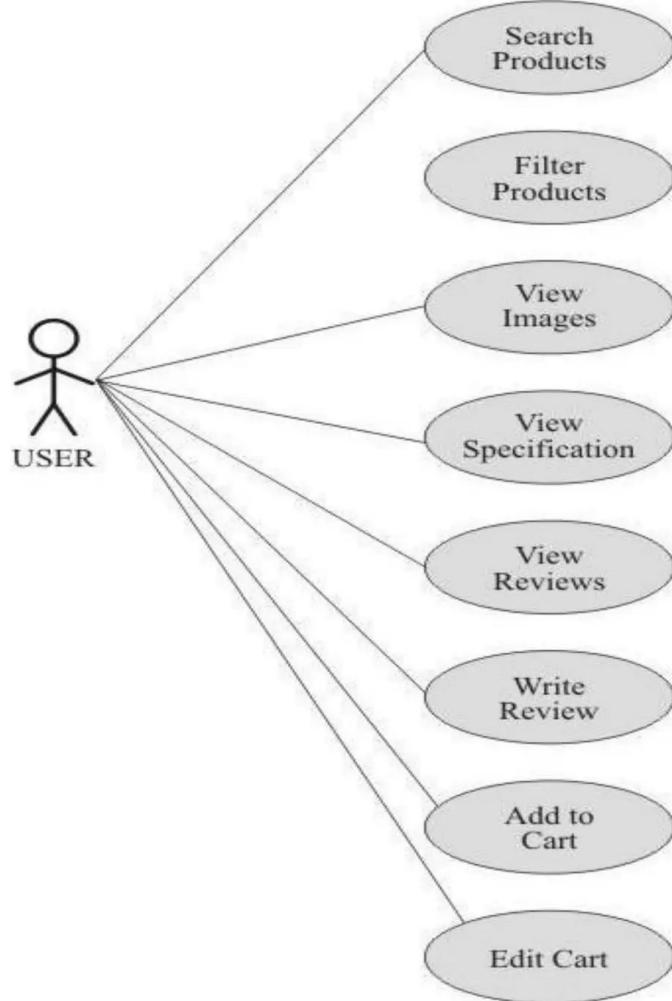


Fig 6.3.1

CHAPTER-7

PROJECT

7.1 PROJECT (Advanced Technologies):

Name: Bookz Kart

7.2 Technologies Used:

- HTML
- CSS
- Bootstrap
- Core PHP
- Java Script
- Jquery
- AJAX

Server: Apache (XAMPP)

Database: MySql

Operating System: Windows7/8/8.1/10

Wire framing tool: Balasmiq

Team Size: 3

7.3 TECHNICAL DETAILS:

- Front end is designed using HTML, CSS and Bootstrap. Ajax used to perform behind the screen requests and JavaScript used to perform client side scripting
- Backend is based on PHP + MySql based RDB(Relational Data Base) model.
- The SQL queries are run using the CI SQL library functions
- Backend online host includes a centralized database resident on the server, the script which is built in PHP used to SQL query the database on user's request for transaction of data
- The forms are made using the HTML, Bootstrap for designing and Php, sql for back-end
- JavaScript, AJAX and JQuery used for client side scripting and PHP for the server side development

CHAPTER-8

FRONTEND SCREENSHOTS

The screenshot shows a web browser window titled "eCommerce Home Page" at the URL "localhost/shopping/". The page has a header with a user profile, a search bar, and a cart icon showing "0" items. Below the header is a navigation menu with categories: HOME (highlighted in blue), BOOKS, ELECTRONICS, FURNITURE, FASHION, and GAME. To the left is a sidebar titled "CATEGORIES" with links for BOOKS, ELECTRONICS, FURNITURE, FASHION, and GAME. The main content area features a large promotional banner for "Boost Your IMMUNITY" with various health products and a person jumping. At the bottom of the page is a taskbar with several pinned icons.

The screenshot shows a web browser window titled "eCommerce Home Page" at the URL "localhost/shopping/". The page features three promotional banners: "MONEY BACK" (30 DAY MONEY BACK GUARANTEE.), "FREE SHIPPING" (FREE SHIP-ON ORDER OVER RS. 600.00), and "SPECIAL SALE" (ALL ITEMS-SALE UP TO 20% OFF). Below the banners is a section titled "FEATURED PRODUCTS" displaying four items: a TV, two smartphones, and a tablet. Each product has a thumbnail, a name, a rating, a price, and an "ADD TO CART" button. The bottom of the page includes a taskbar with pinned icons.

U eCommerce Home Page New Tab localhost/shopping/

OUR BRANDS

AOC **BAJAJ** **blackBerry** **Canon** **COMPAQ** **DAIKIN**

E-commerce

THIS IS A E-COMMERCE

[f](#) [t](#) [in](#) [w](#) [d](#)

OPENING TIME

Monday-Friday:	08.00 To 18.00
Saturday:	09.00 To 20.00
Sunday:	10.00 To 20.00

INFORMATION

ADDRESS

NUMBER

NUMBER

LOKESH@DEMO.COM

1:11 AM 11/5/2023

U Product Category New Tab localhost/shopping/category.php?cid=3

HOME BOOKS ELECTRONICS FURNITURE FASHION GAME

SUB CATEGORIES

- COMICS
- CAT

SHOP BY

Category

- Books
- Electronics
- Furniture
- Fashion
- Game

Category

BOOKS

1:12 AM 11/5/2023

E-Commerce | Sign-in | Signup × +

localhost/shopping/login.php

Incognito

HOME BOOKS ELECTRONICS FURNITURE FASHION GAME

Home / Authentication

SIGN IN

Hello, Welcome to your account.

Email Address *

Password *

Forgot your Password?

LOGIN

CREATE A NEW ACCOUNT

Create your own Shopping account.

Full Name *

Email Address *

Contact No. *

Password. *

1:12 AM
11/5/2023

My Wishlist × New Tab +

localhost/shopping/my-wishlist.php

E-commerce

Search here...

CART - RS. 00.00

HOME BOOKS ELECTRONICS FURNITURE FASHION GAME

Home / Wishlist

MY WISHLIST

 **The Wimpy Kid Do-It-Yourself Book**
★★★★★ (0 Reviews)
Rs. 205.00 ₹900.00 **ADD TO CART** **X**

 **Thea Stilton and the Tropical Treasure**
★★★★★ (0 Reviews)
Rs. 240.00 ₹900.00 **ADD TO CART** **X**

1:13 AM
11/5/2023

U My Cart New Tab

localhost/shopping/my-cart.php

Welcome -lokes | My Account | Wishlist | My Cart | Logout | Track Order

E-commerc es

Search here...

CART - Rs. 255.00

The Wimpy Kid Do -It- Yourself Book
Rs.255*1

Total : Rs.255.00

MY CART

Remove	Image	Product Name	Quantity	Price Per unit	Shipping charges
<input type="checkbox"/>		THE WIMPY KID DO -IT- YOURSELF BOOK ★★★★☆ (0 Reviews)	1	Rs 205.00	Rs 50.00

UPDATE SHOPPING CART

1:13 AM 11/5/2023

U My Cart New Tab

localhost/shopping/my-cart.php

SHIPPING ADDRESS

Billing Address*
agra road aligarh

Billing State *
Uttar Pradesh

Billing City *
Aligarh

Billing Pincode *
202001

UPDATE

BILLING ADDRESS

Shipping Address*
agra road aligarh

Shipping State *
Uttar Pradesh

Shipping City *
Aligarh

Shipping Pincode *
202001

UPDATE

GRAND TOTAL 255.00

PROCEED TO CHECKOUT

1:15 AM 11/5/2023

U Shopping Portal | Payment Method x New Tab x

localhost/shopping/payment-method.php

Welcome -lokes | My Account | Wishlist | My Cart | Logout | Track Order

E-commerc es

Search here...

CART - RS. 255.00

HOME BOOKS ELECTRONICS FURNITURE FASHION GAME

Home / Payment Method

CHOOSE PAYMENT METHOD

SELECT YOUR PAYMENT METHOD

COD Internet Banking Debit / Credit card

1:15 AM 11/5/2023

U Order History x New Tab x

localhost/shopping/order-history.php

Welcome -lokes | My Account | Wishlist | My Cart | Logout | Track Order

E-commerc es

Search here...

CART - RS. 00.00

HOME BOOKS ELECTRONICS FURNITURE FASHION GAME

Home / Shopping Cart

#	Image	Product Name	Quantity	Price Per unit	Shipping Charge	Grandtotal	Payment Method	Order Date	Action
1		THE WIMPY KID DO - IT - YOURSELF BOOK	1	205	50	255	Debit / Credit card	2023-11-05 01:15:29	Track

1:16 AM 11/5/2023

Order Tracking Details - Google Chrome

localhost/shopping/track-order.php?oid=2

Order Tracking Details !

order Id: 2
Order Not Process Yet

Track Order

CART - RS. 00.00

FASHION GAME

Home / Shopping Cart

Price Per unit	Shipping Charge	Grandtotal	Payment Method	Order Date	Action
205	50	255	Debit / Credit card	2023-11-05 01:15:29	Track

1:16 AM 11/5/2023

Detailed description: This screenshot shows a web browser window with two tabs open. The active tab is titled 'Order Tracking Details' and displays a modal window with the message 'Order Tracking Details !' and 'order Id: 2'. Below the modal, it says 'Order Not Process Yet'. To the right, the main page shows a table with columns: Price Per unit, Shipping Charge, Grandtotal, Payment Method, Order Date, and Action. The table has one row with values: 205, 50, 255, Debit / Credit card, 2023-11-05 01:15:29, and a 'Track' link. The browser's address bar shows 'localhost/shopping/track-order.php?oid=2'. The top navigation bar includes links for FASHION and GAME. The bottom of the screen shows a taskbar with various icons and the system clock at 1:16 AM on 11/5/2023.

Track Orders

localhost/shopping/track-orders.php

E-commerce

HOME BOOKS ELECTRONICS FURNITURE FASHION GAME

Search here...

CART - RS. 00.00

Home / Track your orders

TRACK YOUR ORDER

Please enter your Order ID in the box below and press Enter. This was given to you on your receipt and in the confirmation email you should have received.

Order ID

Registered Email

TRACK

1:16 AM 11/5/2023

Detailed description: This screenshot shows a web browser window with a tab titled 'Track Orders' and the URL 'localhost/shopping/track-orders.php'. The page features a header with the text 'E-commerce' and navigation links for HOME, BOOKS, ELECTRONICS, FURNITURE, FASHION, and GAME. Below the header is a search bar with placeholder text 'Search here...'. On the right side, there is a 'CART - RS. 00.00' button. The main content area has a large heading 'TRACK YOUR ORDER' and a note asking users to enter their Order ID. It includes two input fields: 'Order ID' and 'Registered Email', both with placeholder text. A prominent orange 'TRACK' button is located below the email field. The bottom of the screen shows a taskbar with various icons and the system clock at 1:16 AM on 11/5/2023.

My Account New Tab

localhost/shopping/my-account.php

1 MY PROFILE

Personal info

Name*
bhanu pratap singh

Email Address *
bhanu@gmail.com

Contact No.*
123456789

UPDATE

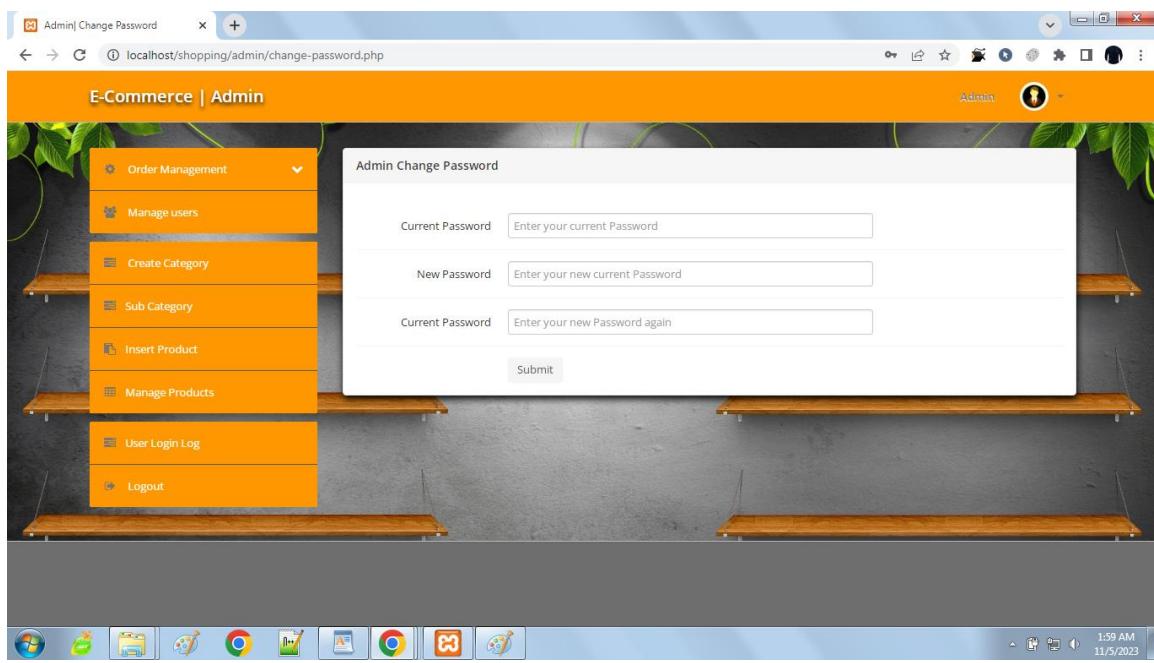
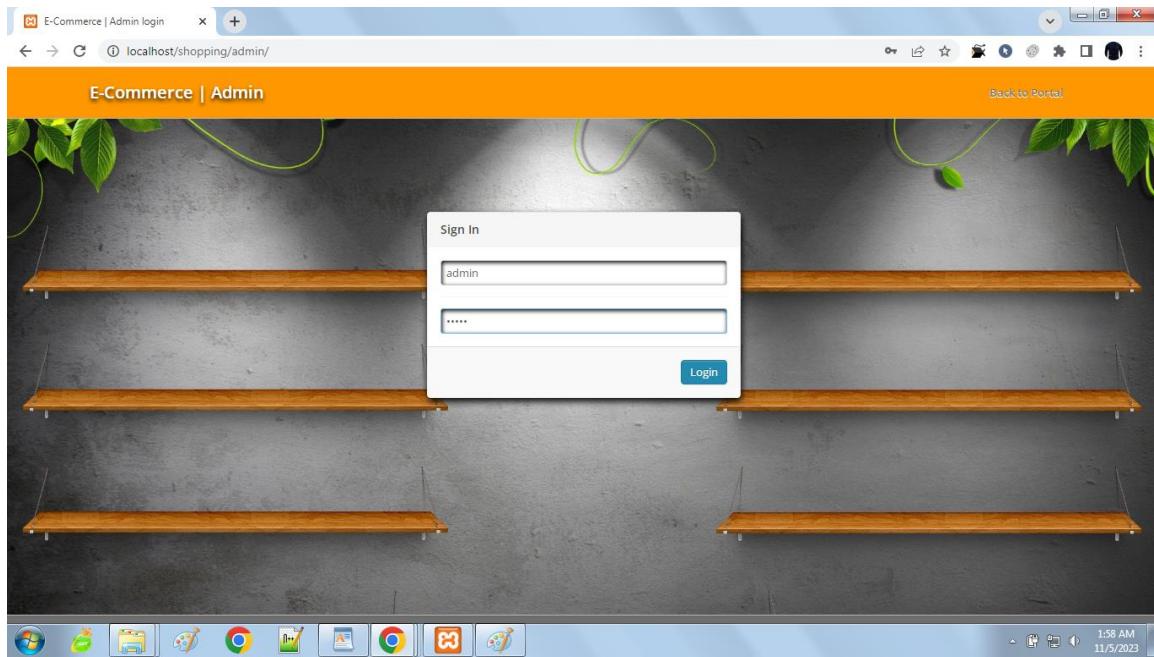
2 CHANGE PASSWORD

YOUR CHECKOUT PROGRESS

My Account
Shipping / Billing Address
Order History
Payment Pending Order

1:17 AM
11/5/2023

BACKEND SCREENSHOTS



Admin Pending Orders +

localhost/shopping/admin/todays-orders.php

E-Commerce | Admin

Order Management

- Today's Orders (1)
- Pending Orders (1)
- Delivered Orders (0)

Manage users

Create Category

Sub Category

Insert Product

Manage Products

User Login Log

Logout

Pending Orders

Show 10 entries Search:

#	Name	Email /Contact no	Shipping Address	Product	Qty	Amount	Order Date	Action
1	lokesh	lokesh@gmail.com/1234567890	9w gopal puri sasnigarh - 244005 hospitals - 244005 aupogit - 244005 meera road ali arh, Aligarh, Uttar Pradesh-202001	The Wimpy Kid Do-It-Yourself Book	1	255	2023-11-05 01:54:37	

Showing 1 to 1 of 1 entries

1:59 AM 11/5/2023

This screenshot shows the 'Pending Orders' section of the admin dashboard. It displays a single order entry for user 'lokesh'. The order details include the name, email, shipping address, product information (The Wimpy Kid Do-It-Yourself Book), quantity (1), amount (255), and the timestamp of creation (2023-11-05 01:54:37). The interface uses a dark-themed header and sidebar, with orange highlights for the active menu items.

Admin Pending Orders +

localhost/shopping/admin/todays-orders.php

E-Commerce | Admin

Order Management

- Manage users
- Create Category
- Sub Category
- Insert Product
- Manage Products

User Login Log

Logout

Update Compliant

Update Order !

order Id: 1

Status:

Remark:

1:01 AM 11/5/2023

This screenshot shows the 'Update Order' modal window. It has fields for 'order Id' (set to 1), 'Status' (with a dropdown menu open showing 'Select Status', 'In Process', and 'Delivered'), and a 'Remark' text area. At the bottom are 'update' and 'Close this Window' buttons. The background shows the same admin dashboard as the previous screenshot, with the 'Pending Orders' section visible.

Admin| Manage Users +

localhost/shopping/admin/manage-users.php

E-Commerce | Admin

Admin

Manage Users

Show 10 entries Search:

#	Name	Email	Contact no	Shipping Address/City/State/Pincode	Billing Address/City/State/Pincode	Reg. Date
1	lokesh kumar	lokeshkumar@gmail.com	123456789	"	"	2023-10-24 05:00:13
2	lokesh	lokesh@gmail.com	1234567890	this is a demo of address	this is a demo of billing address.....	2023-11-05 01:53:05

Showing 1 to 2 of 2 entries

Order Management
Manage users
Create Category
Sub Category
Insert Product
Manage Products
User Login Log
Logout

1:03 AM 11/5/2023

Admin| Category +

localhost/shopping/admin/category.php

E-Commerce | Admin

Admin

Category

Category Name

Description

Create

Manage Categories

Show 10 entries Search:

#	Category	Description	Creation date	Last Updated	Action
1	Books	Test anuj	2017-01-24 11:17:37	30-01-2017 12:22:24 AM	
2	Electronics	Electronic Products	2017-01-24 11:19:32		

localhost/shopping/admin/category.php

1:03 AM 11/5/2023

Admin|SubCategory

localhost/shopping/admin/subcategory.php

E-Commerce | Admin

Sub Category

Category: Select Category

SubCategory Name: Enter SubCategory Name

Create

Sub Category

Show: 10 entries Search:

#	Category	Description	Creation date	Last Updated	Action
1	Electronics	Led Television	2017-01-26 08:24:52	26-01-2017 11:03:40 PM	
2	Electronics	Television	2017-01-26 08:29:09		
3	Electronics	Mobiles	2017-01-30 08:55:48		
4	Electronics	Mobile Accessories	2017-02-03 20:12:40		
5	Electronics	Laptops	2017-02-03 20:13:00		

localhost/shopping/admin/subcategory.php

1:04 AM 11/5/2023

This screenshot shows the 'Sub Category' section of the E-Commerce Admin interface. It features a sidebar with various admin functions like Order Management, Manage users, Create Category, Sub Category (which is selected), Insert Product, Manage Products, User Login Log, and Logout. The main area has two parts: a top form for creating a new sub-category (with fields for Category and SubCategory Name) and a bottom table listing existing sub-categories under the 'Electronics' category. Each entry in the table includes edit and delete icons.

Admin|Insert Product

localhost/shopping/admin/insert-product.php

E-Commerce | Admin

Insert Product

Category: Select Category

Sub Category:

Product Name: Enter Product Name

Product Company: Enter Product Comapny Name

Product Price Before Discount: Enter Product Price

Product Price After Discount(Selling Price): Enter Product Price

Product Description:
Font Format:

1:04 AM 11/5/2023

This screenshot shows the 'Insert Product' page. It has a similar sidebar to the previous screen. The main area contains a form with fields for Category (a dropdown menu), Sub Category (another dropdown menu), Product Name, Product Company, Product Price Before Discount, Product Price After Discount (Selling Price), and a large Product Description field with a rich text editor toolbar below it.

Admin| Insert Product

localhost/shopping/admin/insert-product.php

Product Description

Font Format | Font Size... | Font Family...

Product Shipping Charge Enter Product Shipping Charge

Product Availability Select

Product Image1 Choose file No file chosen

Product Image2 Choose file No file chosen

Product Image3 Choose file No file chosen

Insert

1:05 AM
11/5/2023

Admin| Manage Products

localhost/shopping/admin/manage-products.php

E-Commerce | Admin

Admin

Order Management

Manage users

Create Category

Sub Category

Insert Product

Manage Products

User Login Log

Logout

Manage Products

Show 10 entries Search:

#	Product Name	Category	Subcategory	Company Name	Product Creation Date	Action
1	The Wimpy Kid Do -It- Yourself Book	Books	Comics	ABC	2017-02-03 20:35:13	
2	Thea Stilton and the Tropical Treasure	Books	Comics	XYZ	2017-02-03 20:36:23	
3	Demo cat book	Books	cat	ABC	2023-10-24 02:42:30	
4	Micromax 81cm (32) HD Ready LED TV (32T6175MHD, 2 x HDMI, 2 x USB)	Electronics	Television	Micromax test	2017-01-30 08:54:35	
5	Apple iPhone 6 (Silver, 16 GB)	Electronics	Mobiles	Apple INC	2017-01-30 08:59:00	
6	Redmi Note 4 (Gold, 32 GB) (With 3 GB RAM)	Electronics	Mobiles	Redmi	2017-02-03 20:03:15	
7	Lenovo K6 Power (Silver, 32 GB)	Electronics	Mobiles	Lenovo	2017-02-03 20:04:43	

1:06 AM
11/5/2023

CHAPTER-9

MAINTENANCE

The maintenance phase involves making changes to hardware, software, and documentation to support its operational effectiveness. It includes making changes to improve a system's performance, correct problems, enhance security, or address user requirements. To ensure modifications do not disrupt operations or degrade a system's performance or security, organizations should establish appropriate change management standards and procedures.

Routine changes are not as complex as major modifications and can usually be implemented in the normal course of business. Routine change controls should include procedures for requesting, evaluating, approving, testing, installing, and documenting website modifications. Maintaining accurate, up-to-date hardware and software inventories is a critical part of all change management processes. Management should carefully document all modifications to ensure accurate system inventories. Management should coordinate all technology related changes through an oversight committee and assign an appropriate party responsibility for administering software patch management programs. Quality assurance, security, audit, regulatory compliance, network, and end-user personnel should be appropriately included in change management processes. Risk and security review should be done whenever a system modification is implemented to ensure controls remain in place.

For maintenance of the website:

1. The database has to be updated regularly according to new available information.
2. Redundant and false information must be removed from the database.
3. Newer version of PHP and MYSQL can be used for up gradation of website and to improve the overall performance of the system.

CHAPTER-10

FUTURE SCOPE & FUTURE ENHANCEMENT

PROJECT NAME:

E-commerce

1. E-commerce would help each and every person to find any book via our website and get it at home it will save their time.
2. It would provide huge collection of books of all fields.
3. Students will also get audio/video series of courses, i.e. they can learn online/offline."
4. We will be providing some special courses both online and offline.

CHAPTER-11

CONCLUSION

We have successfully implemented the site '**E-commerce**'. With the help of various links and tools, we have been able to provide a site which will be live soon and running on the web. We have been successful in our attempt to take care of the needs of both the user as well as the administrator. Finally we hope that this will go a long way in popularizing.

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