

WEB DEVELOPMENT

A SUMMER TRAINING REPORT

Submitted by

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19BCS4275

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of*

**BACHELOR OF ENGINEERING
IN
CSE-MOBILE COMPUTING**



**APEX INSTITUTE OF TECHNOLOGY
CHANDIGARH UNIVERSITY, GHARUAN
MOHALI, PUNJAB**

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COMPANY

Internshala is an internship and online training platform, based in Gurgaon, India. Founded by **Sarvesh Agrawal**, an IIT Madras alumnus, in 2010, the website helps students find internships with organisations in India. The platform, which was founded in 2010, started out as a WordPress blog that aggregated internships across India and articles on education, technology and skill gap. Internshala launched its online trainings in 2014. As of 2018, the platform had 3.5 million students and 80,000 companies.

Internshala is a dot com business with the heart of dot org. Internshala is a technology company on a mission to equip students with relevant skills & practical exposure through internships and online trainings with a vision of world full of freedom and possibilities. A world where one can discover one's passion and turn it into their career. A world where your practical skills matter more than your university degree. A world where you do not have to wait till 21 to taste your first work experience (and get a rude shock that it is nothing like you had imagine it to be). A world where you graduate fully assured, fully confident, and fully prepared to stake claim on your place in the world.

Internshala signed an MoU in 2017 with AICTE, the regulatory body governing technical education in the country. As the official internship partner for AICTE, Internshala is helping students in 10,000 colleges across India get an internship of their dreams. Apart from this, Internshala have also partnered with NPTEL and state level skill development bodies like TASK (in Telangana), APSSDC (in Andhra Pradesh), and ICTAK (in Kerala). With 2.5 Mn+ registered students, Internshala is just getting started on our mission to equip each of the 30 Mn college students in India with practical knowledge and skills so that they can build their dream careers. While Internshala continue to help students from cities and metros, they have also started concentrated efforts in smaller cities (and towns and villages subsequently) to take the message of meaningful internships and trainings to youth there as well. Historically, there is no dearth of talent in our Tier-2 or Tier-3 cities – Internshala just need to bring awareness and opportunities to them if India were to reap true benefits of its demographic dividend. Internshala offers following products & services to its users:

Internship and Job Posting: Organization & individuals looking to hire interns and/or full-time employees can post their internship and/or job requirement on Internshala. Currently, internships are posted for free and a fee of INR 4999 is charged from the employers for posting a full-time job.

Internship and Job search: Internship and job seekers from all over India can search and apply for internships and jobs relevant to their coursework and interest free of cost.

CERTIFICATE



ACKNOWLEDGEMENT

I would like to acknowledge the contributions of the following people without whose help and guidance this report would not have been completed.

I acknowledge the counsel and support of our training coordinator, **Mr. Ashish Rastogi, Assistant Professor, Training /Internship Co-ordinator**, with respect and gratitude, whose expertise, guidance, support, encouragement, and enthusiasm has made this report possible. Their feedback vastly improved the quality of this report and provided an enthralling experience. I am indeed proud and fortunate to be supported by him/her.

I am also thankful to **Mr. Aman Kaushik, H.O.D of AIT-Computer Science Engineering Department** for his constant encouragement, valuable suggestions and moral support and blessings. Although it is not possible to name individually, I shall ever remain indebted to the faculty members of **Apex Institute of Technology, Chandigarh University** for their persistent support and cooperation extended during this work.

This acknowledgement will remain incomplete if I fail to express our deep sense of obligation to my parents and God for their consistent blessings and encouragement.

Shubham Mahajan

19BCS4275

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ABSTRACT

Industrial training is an important phase of a student life. A well planned, properly executed and evaluated industrial training helps a lot in developing a professional attitude. It develops an awareness of industrial approach to problem solving, based on a broad understanding of process and mode of operation of organization. The aim and motivation of this industrial training is to receive discipline, skills, teamwork and technical knowledge through a proper training environment, which will help me, as a student in the field of Information Technology, to develop a responsiveness of the self-disciplinary nature of problems in information and communication technology. During a period of six weeks training at **INTERNSHALA**, I was trained to create web-pages and finally develop an E-Commerce website. Throughout this industrial training, I have been learned new programming and Markup languages that required for the web development.

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1. INTRODUCTION

1.1. OBJECTIVE

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 an e-commerce store where product like smartphones can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online shopping for smartphones. An E-store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option. The main goal of this website is to develop an easy-to-use web-based interface where Customer can search for products (Smartphones), view a complete description of the product and order the product.

- Any member can register and view available products.
- Only registered member can purchase multiple products regardless of quantity.
- Contact Us page is available to contact Admin for queries.

1.2. SPECIFICATIONS

4GB RAM Minimum, 8GB RAM Recommended

3GB of available disk space Minimum, 4GB Recommended

1280*800 Minimum screen resolution

Microsoft Windows 7/8/10(32 bit or 64 bit)

1. Windows Requirements

- 2GB of available disk space Minimum, 4GB Recommended
- Microsoft Windows 7/8/10(32 bit or 64 bit)
- 1280*800 Minimum screen resolution
- 3GB RAM Minimum, 8GB RAM Recommended

2. MAC OS Requirements

- Mac OS X 10.10 or higher, up to 10.13
- 3GB RAM Minimum, 8GB RAM Recommended
- 2GB of available disk space Minimum, 4GB Recommended
- 1280*800 Minimum screen resolution

2. THEORY

2.1 GENERAL THEORY: 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/server-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: frontend developer, back-end developer, and full-stack developer.

2.2 HTML:

- Stands for **Hypertext Markup Language**.
- It is the standard markup language for documents designed to be displayed in a web browser.
- It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.
- HTML describes the structure of a web page semantically.
- With HTML constructs, images and other objects such as interactive forms may be embedded into the page.

2.3 CSS:

- Stands for **Cascading Style Sheets**.
- It is a style sheet language used for describing the presentation of a document written in a markup language like HTML.
- CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts.
- It Consists of a list of *rules*. Each rule or rule-set consists of one or more *selectors*, and a *declaration block*.
- Elements specified by attribute, in particular:
 - ❖ *id*: an identifier unique within the document
 - ❖ *class*: an identifier that can annotate multiple elements in a document

2.4 BOOTSTRAP:

- It is a free and open-source CSS framework directed at responsive, mobile-first front-end web development
- It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.
- It focuses on simplifying the development of informative web pages.
- It provides basic style definitions for all HTML elements.

2.5 SQL:

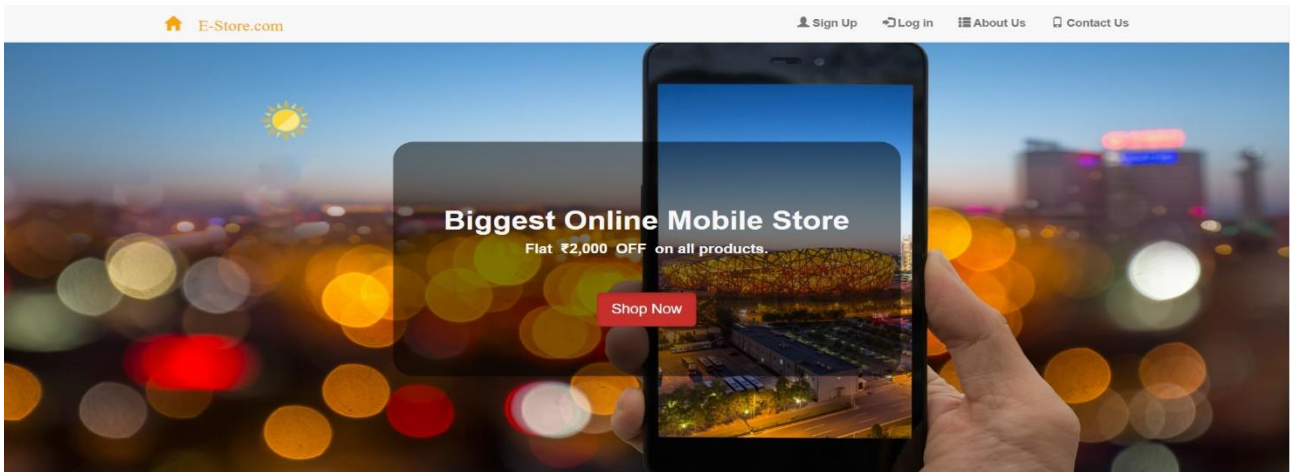
- SQL stands for **Structured Query Language**.
- It is designed for managing data in a relational database management system (RDBMS).
- SQL is a database language, it is used for database creation, deletion, fetching rows, and modifying rows, etc.
- SQL is based on relational algebra and tuple relational calculus.
- It allows the user to describe and define the data in the database and manipulate it when needed.
- It allows the user to create a view, stored procedure, function in a database.

2.6 PHP:

- PHP is an acronym for "**PHP: Hypertext Preprocessor** “
- A general-purpose scripting language that is especially suited to web development.
- PHP code is usually processed on a web server by a PHP interpreter implemented as a module.
- Can be deployed on most web servers on almost every operating system and platform, free of charge.

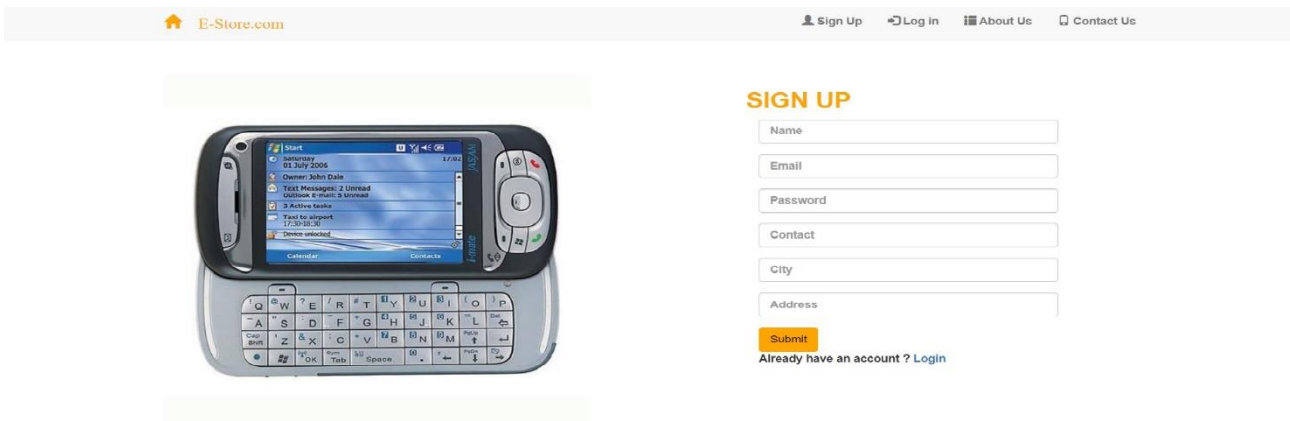
3. PROJECT SCREENSHOTS

Main Page of the website.



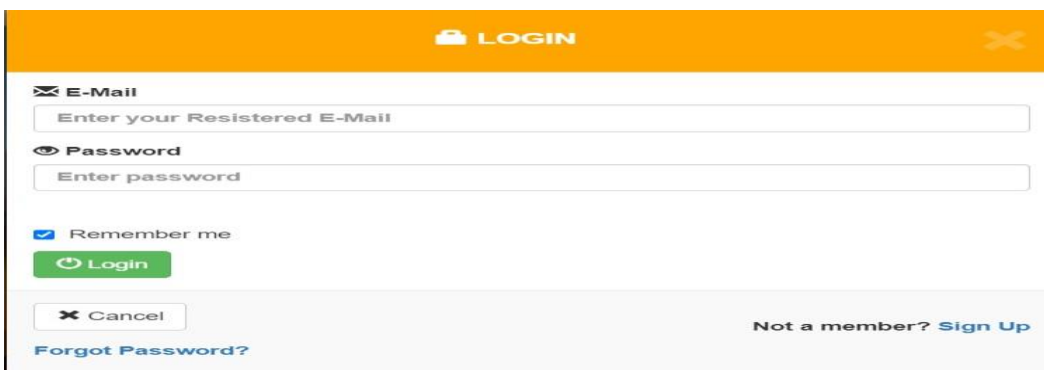
IMG. 1

Sign up Page of the website.



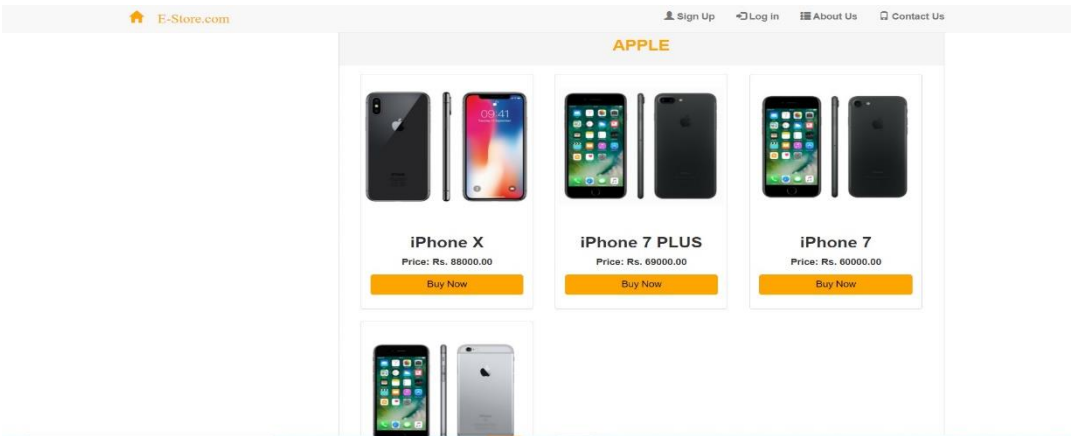
IMG. 2

Login Page of the website.



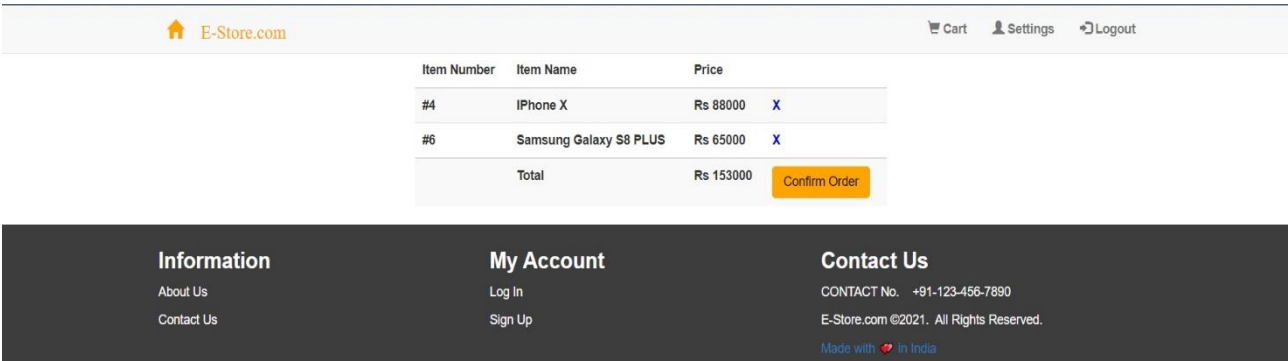
IMG. 3

Home Page of the website.



IMG. 4

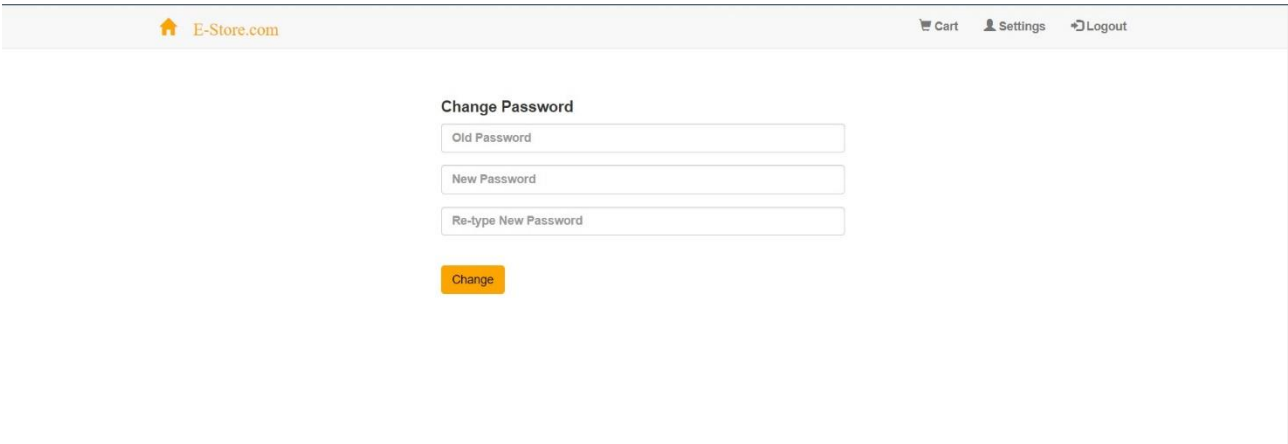
Cart Page of the website.



IMG. 5

5

Setting Page of the website.



IMG. 6

6

Contact Us Page of the website.

E-Store.com

Sign Up

Log In

About Us

Contact Us

LIVE SUPPORT

24 hours|7 days a week| 365 days a year Live Technical Support

It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters. There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or randomised words which don't look even slightly believable. If you are going to use a passage of Lorem Ipsum, you need to be sure there isn't anything embarrassing hidden in the middle of text.

Get In Touch

Name

Email

Your Message Here

Submit

Contact Info

500 Lorem Ipsum Dolar Sit,
22-56-3-5 Sit Amet, Lorem,
USA
Phone:(00) 222 555 3333
Fax:(000) 222 55 33 6
Email: info@estore.com

Follow Us On:



IMG. 7

About Us page of the website.

E-Store.com


Sign Up

Log In

About Us

Contact Us

WHO WE ARE



Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

OUR HISTORY

1988-

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum. It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout.

2002-

OPPORTUNITIES

Available Roles

- Jr./Sr. Web Developer [Full Time Role + also available as a 6 Months Internships]
- Business Apprentice [6 Months Internships]
- Manager at backend operations[Full Time Role + also available as a 6 Months Internships]

IMG. 8

4. METHODOLOGY ADOPTED

Technologies that are used to develop A website are:

- HTML
 - CSS
 - Bootstrap
 - SQL
 - PHP
- ❖ Front end is designed using HTML, CSS and Bootstrap.
 - ❖ Backend is based on PHP + SQL 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, SQLi` for back-end.

5. RESULTS AND DISCUSSIONS

After learn web development tools to create international standard websites by our own. Following are the learning outcomes of the industrial training on web development.

- Able to use the HTML programming language. o Resolves written HTML codes. o Runs the page designed using HTML codes.
- Be able to use CSS for styling the web pages.
- Able to modify Site Designs to look how we Want Them to Look.
- Discover how does web works really, what makes web sites work.
- Able to use Simple and impressive design techniques, from basics till advanced to focus on goal oriented and user centric designs.
- Able to plan for website & actually build excellent web sites.
- Pro level skills in SEO with keyword research and content strategy for our website.
- Able to create web elements like buttons, banners & Bars and of course complete UI designs.
- Ale to create Forms and validations for our website.
- Setting up page layout, color schemes, contract, typography in the designs.
- Writing valid and concise code for webpages.
- Best use of social media for revenue generation.
- Setting up a perfect landing page for business, clients and yourself.
- Publishes the site designed.
- Be able to make changes on the Site.

6. CONCLUSIONS AND FUTURE SCOPE

CONCLUSION

The Internet has become a major resource in modern business, thus electronic shopping has gained significance not only from the entrepreneur's but also from the customer's point of view. For the entrepreneur, electronic shopping generates new business opportunities and for the customer, it makes comparative shopping possible. As per a survey, most consumers of online stores are impulsive and usually make a decision to stay on a site within the first few seconds. "Website design is like a shop interior. If the shop looks poor or like hundreds of other shops the customer is most likely to skip to the other site. Hence, we have designed the project to provide the user with easy navigation, retrieval of data and necessary feedback as much as possible. In this project, the user is provided with an ecommerce web site that can be used to buy books online. To implement this as a web application we used PHP as the Technology. PHP has several advantages such as enhanced performance, scalability, built-in security and simplicity. A good shopping cart design must be accompanied with user-friendly shopping cart application logic. It should be convenient for the customer to view the contents of their cart and to be able to remove or add items to their cart. The shopping cart application described in this project provides a number of features that are designed to make the customer more comfortable. This project helps in understanding the creation of an interactive web page and the technologies used to implement it. The design of the project which includes Data Model Web-Development project: E-Store 40 Dept. of CEA, GLAU, Mathura and Process Model illustrates how the database is built with different tables, how the data is accessed and processed from the tables. The building of the project has given me a precise knowledge about how PHP is used to develop a website, how it connects to the database to access the data and how the data and web pages are modified to provide the user with a shopping cart application.

SCOPE: Scope of this project is very broad in terms of other manually functioning.

- It can be used by user to get information about the latest smartphones.
- It can be used for corporate world person to sell their products.
- It is based on web application we can easily access it from anywhere.

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