

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI – 590018, Karnataka



INTERNSHIP REPORT
ON
“FULL STACK WEB DEVELOPMENT”
BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

Submitted By:

Gowra Sai Santhosh [1VE20CS044]

Conducted at



VARCONS TECHNOLOGIES



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Sri Venkateshwara College of Engineering Vidyanagar,
Kempegowda International Airport Road, Bengaluru – 562 157

**Sri Venkateshwara College of Engineering Vidyanagar,
Kempegowda International Airport Road, Bengaluru – 562 157
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



CERTIFICATE

This is to certify that the internship report entitled “**Full Stack Web Development**” is a bonafied work carried out by **GOWRA SAI SANTHOSH (1VE20CS044)**, student of 6th semester, B.E, Computer Science And engineering, **Sri Venkateshwara College Of Engineering Bengaluru** in partial fulfilment for the award of the degree of **Bachelor Of Engineering in Computer Science & Engineering** of the **Visvesvaraya Technological University, Belagavi**, during the academic year 2022-23. It is certified that all the suggestions and corrections are indicated for the internal assessment have been incorporated in the department library. The report has been approved as it satisfies the requirements in respect of internship work prescribed for the said degree.

Signature of Guide

Signature of HOD

Signature of Principal

DECLARATION

I, **Gowra Sai Santhosh**, 3rd year student of Computer Science & Engineering Branch, **Sri Venkateshwara College of Engineering Bengaluru -562157**, declare that the Internship has been successfully completed, in **Vacrons Technologies**. This report is submitted in partial fulfilment of the requirements for award of Bachelor Degree on Department of Computer Science & Engineering, during the academic year 2022-23.

Date:

Place: Bengaluru

USN: 1VE20CS044

NAME: Gowra Sai Santhosh

INTERNSHIP OFFER LETTER PROVIDED BY THE COMPANY



Date: 13th March, 2023

Name: **Gowra Sai Santhosh**
USN: **1VE20CS044**

Dear Student,

We would like to congratulate you on being selected for the **Full Stack Web Development** Internship position with **Varcons Technologies**, effective Start Date **13th March, 2023**. All of us are excited about this opportunity provided to you!

This internship is viewed as being an educational opportunity for you, rather than a part-time job. As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts of **Full Stack Web Development** through hands-on application of the knowledge you learn while you train with the senior developers. You will be bound to follow the rules and regulations of the company during your internship duration.

Again, congratulations and we look forward to working with you!

Sincerely,

Spoorthi H C
Director
VARCONS TECHNOLOGIES
213, 2nd Floor, 18 M G Road, Ulsoor,
Bangalore-560001

ACKNOWLEDGEMENT

This Internship is a result of accumulated guidance, direction and support of several important persons. We take this opportunity to express our gratitude to all who have helped us to complete the Internship.

We express our sincere thanks to our Principal, for providing us adequate facilities to undertake this Internship.

We would like to thank our Head of Dept – branch code, for providing us an opportunity to carry out Internship and for his valuable guidance and support.

We would like to thank our (Lab assistant name) Software Services for guiding us during the period of internship.

We express our deep and profound gratitude to our guide, Guide name, Assistant/Associate Prof, for her keen interest and encouragement at every step in completing the Internship.

We would like to thank all the faculty members of our department for the support extended during the course of Internship.

We would like to thank the non-teaching members of our dept, for helping us during the Internship.

Last but not the least, we would like to thank our parents and friends without whose constant help, the completion of Internship would have not been possible.

NAME: Gowra Sai Santhosh

USN: 1VE20CS044

ABSTRACT

A Stock Photos are the way to present a narrative through a series of images. A great photo essay is powerful, able to evoke emotion and understanding without using words. A photo essay delivers a story using a series of photographs and brings the viewer along your narrative journey.

A photographic essay is a form of visual storytelling, a way to present a narrative through a series of images. A great photo essay is powerful, able to evoke emotion and understanding without using words. A photo essay delivers a story using a series of photographs and brings the viewer along your narrative journey.

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Chapter 1

COMPANY PROFILE

Varcons Technologies thrive to empower and enhance the lives of the people through profound IT Innovative solutions, with the help of our competent technical team specialized in providing very effective and efficient solutions.

Core Values:

1. Our cross-functional team structure and collaborative approach ensures that all reviews and client feedback are incorporated in the development process. This is done in order to obtain satisfactory outcomes on time, without compromising on cost or quality.
2. We provide services to cover all aspects of app creation This saves our partners the trouble of managing multiple teams and allows them to focus on core business objectives.
3. We understand the vital importance of getting your product to market at the earliest to stay ahead of the competition. Our team will coordinate with you every step of the way to make sure that your product is released well within defined time frame

Varcons Technologies

213, 2nd Floor, 18 M G Road, Ulsoor,

Bangalore-560001

Chapter 2

ABOUT THE COMPANY

Varcons technologies providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever increasing automation requirements, Compsoft Technologies specialize in ERP, Connectivity, SEO Services, Conference Management, effective web promotion and tailor-made software products, designing solutions best suiting client's requirements. The organization where they have a right mix of professionals as a stakeholder to help us serve our clients with best of our capability and with at par industry standards. They have young, enthusiastic, passionate and creative Professionals to develop technological innovations in the field of Mobile technologies, Web applications as well as Business and Enterprise solution. Motto of our organization is to "Collaborate with our clients to provide them with best Technological solution hence creating Good Present and Better Future for our client which will bring a cascading a positive effect in their business shape as well". Providing a Complete suite of technical solutions is not just our tag line, it is Our Vision for Our Clients and for Us, we strive hard to achieve it.

Internship Program Objective

The major objectives of internship are:

- To expose students to a particular job and a profession or industry.
- To provide students with opportunity to develop skills in the field of interest
- To assist students in gaining vital work-related experience and building strong resume for bright career.
- To help students in developing business contacts i.e creating network contacts.
- To help students potentially land permanent or contractual jobs from host company.

Chapter 3

INTRODUCTION

Web applications are similar to the traditional applications you'd install on your Information, such as Microsoft Office. They are able to perform the same kinds of tasks, they look the same and they feel the same but there is one key difference - the application itself is not installed on your phone or Information, but lives in the cloud. Web apps are not new, but it used to be that they were often unable to compete with more traditional applications for business critical functions or where rich user interaction was required. This is no longer the case. With the power of modern web technologies, we are able to design and build performing, secure, and feature rich applications that live in the cloud and bring with them a huge number of benefits.

1.They can be accessed from anywhere

- Because web applications are built with web technologies and they run in a web browser Internet Explorer, Google Chrome, Mozilla Firefox – this allows them to be accessed from every web enabled tool. As long as you have an internet connection you can use them.
- It allows for remote working, it allows for rapid publishing of content, it allows for real time collaboration between teams. If you have web access, you have the ability to access your business tools.

2. They are cost effective.

- Web applications are cheaper to produce and maintain than traditional applications. No matter how many platforms your business uses (Mac, Linux, Windows) web application build can be used across them all.

3. They benefit from more rapid update cycles.

- A huge benefit of web applications is that when an update is released, all of your users are immediately using that version. This doesn't happen with installed applications, especially in large organizations with IT policies that restrict administrator access

Chapter 4

REQUIREMENT ANALYSIS

Hardware Requirement Specification

1. MySQL
2. NODE JS
3. Notepad++ Editor
4. Processor: Intel core i5 processor
5. Memory: 15.6 GB
6. Hard Disk: 40 GB
7. Linux 7.1 or windows xp/7/8/9/10 or any operating system
8. Any IDE

System Requirements

➤ Functional Requirement

Functional requirement of the system describes what the system does. The main functional requirements of this system are as follows

- User should be able to view all the necessary information and specification about this project.
- Browser compatibility.
- Responsive to all devices.
- Administrator (Theme Developer) can modify theme under GPL license

➤ Non-Functional Requirements

A non-functional requirement describes how the system performs a certain function. Non-functional requirements generally specify the system's quality attributes or characteristics. Puranobooks follows properties such as reliability, usability, storage occupancy, performance, and response time

➤ **Feasibility Analysis**

A feasibility study is an analysis of how successfully a project can be completed, accounting for factors that affect it such as economic, technological, legal, and scheduling factors. Project manager use feasibility studies to determine potential positive and negative outcomes of a project investing a considerable amount of time and money into it. Feasibility studies allow companies to determine and organize all of the necessary details to make business work. A feasibility study helps to identify logistical problems, and nearly all business-related problems, along with the solutions to alleviate them. Feasibility studies can also lead to the development of marketing strategies that convince investors or a bank that investing in the business is a wise choice.

➤ **Economic Feasibility**

Economically, the theme PuranoBooks is bound to do well. There is little cost associated for using the system. Hence, the system is economically feasible. If owner needs any supports on this theme then they will be available upon Email Request.

➤ **Operational Feasibility**

Operational feasibility asks if the system will work when developed and installed. The system is user friendly so the user can use this system more enthusiastically. The following points were taken into account for operational feasibility of the system:

- The system causes no harm
- The theme is affordable and has low operational cost.

➤ **Schedule Feasibility**

Schedule feasibility is a measure of how reasonable the project timetable is. So, feasible schedule had been managed through proper time schedule.

Chapter 5

DESIGN ANALYSIS

1. Theme Design Layout

The theme used for our project is a trending theme which has a good layout format. The theme was developed by our own referring some of the websites.



2. Navigation Bar

Navigation bar is the place where users can go through all the items that are selected from website back-end. Actually, it is a page type of the site. We can create menus. This will bring to the edit menus screen which is divided into two columns. The column on our left has our pages, categories, and custom links tab. The column on the right is where we can add and adjust menu items.

3. Slider

Slider is the part of website that contains image that continuously changes. In this theme, Slider Revolution plugin is used to define slider with proper front- end and back-end tools. Sliders can run slideshows automatically without user input by moving slides on pre-defined time interval. Sliders can also respond to user interaction like click or swipe to view next or previous slides. Additionally, sliders can also have buttons or thumbnails which users can click to view a particular slide in the slide

4.Sidebar

Sidebar is the section where recently viewed products, search filter etc. are placed as a short cut for the content of the site especially for product shop pages. themes to display information that is not a part of the main content. It is not always a vertical column on the side. It can be a horizontal rectangle below or above the content area, footer, header, or anywhere in the file

5. Footer

The footer area of a website is usually defined in the template file footer.html. In some themes, the area may also contain a widget zed area with multiple columns that you can use

Chapter 6

IMPLEMENTATION

Implementation Tools

Implementation is an activity that is contained throughout the development phase. It is the process of bringing designed system into operational use. The system is tested first and then turned into working system. Every task identified in the design specification is carried out in this phase.

Front End Tools

1. HTML

HTML known as Hyper Text Mark-up Language, the authoring language used to create documents on the World Wide Web. HTML defines the structure and layout of a Web document by using a variety of tags and attributes. Theme or plugin does exactly what you need it to do, and looks almost exactly how you need it to look. But still, you wish it would look slightly different. For this reason, HTML was used. HTML tags were used in posts, pages, sidebar text widgets to code a hyperlink by hand, or adjust the header size.

2. CSS

CSS stands for Cascading Style Sheets. It describes how HTML elements are to be displayed onscreen or in other media. In this project, additional CSS was used when further customization on the site was required. Sometimes, the theme does not work as per the requirement of the user so to meet the requirement of the user additional CSS was used. To add in the icons, to scale the logo properly, change the font size of the specified content, to add a specific callout box, or style just a section of a post differently CSS was used. The theme option does provide certain features but to add the features according to the client's requirement additional CSS was applied.

3. JavaScript

JavaScript (sometimes abbreviated JS) is a prototype-based scripting language that is dynamic, weakly typed. JavaScript is a client-side scripting language meaning that JavaScript code is written into an HTML page. When a user requests an HTML page with JavaScript in it, the script is sent to the browser and it's up to the browser to do something with it. It is used to make webpage more interactive, check or modify the contents of forms, change images, open new windows and write dynamic page content

4. Back End Tools XAMPP

XAMPP 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. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible. XAMPP's ease of deployment means a WAMP or LAMP stack can be installed quickly and simply on an operating system by a developer, with the advantage a number of common add-in applications such as WordPress and Joomla! can also be installed with similar ease using Bitnami.

Chapter 7

SOURCE CODE

Html code

1. Home page

```
<!DOCTYPE html>
<html>
  <head>
    <title>LearnTech | Home</title>

    <!--Start normalize css-->
    <link rel="stylesheet" type="text/css" href="css4/normalize.css">

    <!--Start Custom css-->
    <link rel="stylesheet" type="text/css" href="css4/home.css">

    <!--Start global css-->
    <link rel="stylesheet" type="text/css" href="css4/global.css">

  </head>
  <body>

    <header>



    <nav>
      <a href="Home.html">Home</a>
      <a href="Library.html">Library</a>
      <a href="Contribute.html">Contribute</a>
    </nav>

    </header>

    <section id="slideshow">
      <section id="content">
        <h2>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;& Stock
Photos</h2>
        <p>The list below features some of the best websites where you <br>
your students can access public domain and free images. <br>
All of these platforms offer premium plans with more features
<br>and perks in case you want to upgrade.
Before you use any of the materials provided in these websites
```

```
<br>(and any website for that matter), I recommend that you check
<br>their license requirement to make sure you are not inadvertently
<br>breaching any of their usage rules.</p>
```

```
</section>
```

```

```

```

```

```

```

```
</section>
```

```
</body>
```

```
</html>
```

2. Library page

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>LearnTech | Home</title>
```

```
<!--Start normalize css-->
```

```
<link rel="stylesheet" type="text/css" href="css4/normalize.css">
```

```
<!--Start Custom css-->
```

```
<link rel="stylesheet" type="text/css" href="css4/Library.css">
```

```
<!--Start global css-->
```

```
<link rel="stylesheet" type="text/css" href="css4/global.css">
```

```
</head>
```

```
<body>
```

```
<header>
```

```

```

```
<nav>
```

```
<a href="Home.html">Home</a>
```

```
<a href="Library.html">Library</a>
```

```
<a href="Contribute.html">Contribute</a>
```

```
</nav>
```

```
<div>
```

```

```

```

```

```













</div>
</header>
</body>
</html>

```

3. Contribute page

```

<!DOCTYPE html>
<html>
<head>
<title>LearnTech | Home</title>

<!--Start normalize css-->
<link rel="stylesheet" type="text/css" href="css4/normalize.css">

<!--Start Custom css-->
<link rel="stylesheet" type="text/css" href="css4/Contribute.css">

<!--Start global css-->
<link rel="stylesheet" type="text/css" href="css4/global.css">

</head>
<body>

<header>

<nav>
<a href="Home.html">Home</a>
<a href="Library.html">Library</a>
<a href="Contribute.html">Contribute</a>
</nav>
</header>
<section id="slideshow">

```

```

<section id="content">
  <div class="FisrtName">
    First Name : <br>
    <input type="text" name="firstname" value="">
  </div>
  <br>
  <div class="Last Name">
    Last Name : <br>
    <input type="text" name="lastname" value="">
  </div>
  <br>
  <div class="Email">
    Email: <br>
    <input type="text" name="email" value="">
  </div>
  <br>
  <br>
  <div class="type">
    <input type="text"> <a href="https://www.pexels.com/"><input type="button"
name="browse" value="browse"></a>
  </div>
  <br>
  <br>
  <div class="Submit">
    <a href="index.html"><input type="button" name="submit" value="submit"></a>
  </div>

</section>



</section>
</body>
</html>

```

CSS code

1. Home.css

```
section#content {  
    position: absolute;  
    width: 945px;  
    height: 300px;  
    left: 16px;  
    top: 267px;  
  
    font-family: 'inter';  
    font-style: normal;  
    font-weight: 700;  
    font-size: 15px;  
    line-height: 34px;  
  
    color: #000000;  
  
}  
  
img#slide {  
    width: 100%;  
    height: 10%;  
}  
  
img#slide1 {  
    position: absolute;  
    width: 400px;  
    height: 606px;  
    left: 1004px;  
    top: 226px;  
}  
  
img#slide2 {  
    position: absolute;  
    width: 477px;  
    height: 369px;  
    left: 243px;  
    top: 624px;  
  
}
```

2. Global.css

```
/*  
===== Start Global Properties =====  
*/  
body {  
    font-family: roboto;  
}  
  
header {  
    width: 100%;  
    height: 80px;  
    background: #172035;  
}  
  
img#logo {  
    margin-left: 50px;  
    margin-right: 500px;  
    position: absolute;  
    top: 17px;  
    left: 0;  
}  
  
nav {  
    display: inline-block;  
    margin-left: 400px;  
    margin-top: 30px;  
}  
  
a {  
    color: white;  
    text-decoration: none;  
    font-weight: 2em;  
    font-family: 'roboto';  
    margin-right: 20px;  
    padding: 30px;  
}  
  
a:hover {  
    color: white;  
    background: #09568d;  
    padding: 30px;  
}  
  
button {
```

```
width: 50%;  
height: 50px;  
background: #172035;  
color: white;  
font-size: 2em;  
border:none;  
}
```

```
button:hover {  
    background: #09568d;  
}
```

```
img#L1 {  
    position: absolute;  
width: 272px;  
height: 337px;  
left: 0px;  
top: 216px;  
}
```

```
img#L2 {  
    position: absolute;  
width: 274px;  
height: 404px;  
left: 295px;  
top: 113px;  
}
```

```
img#L3 {  
    position: absolute;  
width: 276px;  
height: 451px;  
left: 594px;  
top: 182px;  
}
```

```
img#L4 {  
    position: absolute;  
width: 300px;  
height: 384px;  
left: 893px;  
top: 113px;  
}
```

```
img#L5 {  
    position: absolute;  
width: 400px;
```

```
height: 267px;  
left: 57px;  
top: 633px;  
}
```

```
img#L6 {  
    position: absolute;  
width: 400px;  
height: 267px;  
left: 493px;  
top: 721px;  
}
```

```
img#L7 {  
    position: absolute;  
width: 400px;  
height: 400px;  
left: 978px;  
top: 553px;  
}
```

```
img#D1 {  
    position: absolute;  
width: 60px;  
height: 61px;  
left: 212px;  
top: 492px;  
}
```

```
img#D2 {  
    position: absolute;  
width: 60px;  
height: 61px;  
left: 509px;  
top: 456px;  
}
```

```
img#D3 {  
    position: absolute;  
width: 60px;  
height: 61px;  
left: 810px;  
top: 572px;  
}
```

```
img#D4 {
```



```
    position: absolute;
width: 60px;
height: 61px;
left: 1133px;
top: 436px;
}
```

```
img#D5 {
    position: absolute;
width: 60px;
height: 61px;
left: 397px;
top: 839px;
}
```

```
img#D6 {
    position: absolute;
width: 60px;
height: 61px;
left: 833px;
top: 927px;
}
```

```
img#D7 {
    position: absolute;
width: 60px;
height: 61px;
left: 1318px;
top: 892px;
}
/*
```

```
=====
                        End Global Properties
=====
```

```
*/
```

3. Contribute.css

```
section#content {  
    position: absolute;  
    width: 945px;  
    height: 332px;  
    left: 16px;  
    top: 267px;  
  
    font-family: 'inter';  
    font-style: normal;  
    font-weight: 700;  
    font-size: 30px;  
    line-height: 34px;  
  
    color: #fdf6f6;  
  
}  
  
img#bg {  
    width: 100%;  
    height: 10%;  
}  
  
div.FirstName {  
    position: absolute;  
    width: 660px;  
    height: 84px;  
    left: 660px;  
    top: 221px;  
  
    background: #D9D9D9;  
}
```

Chapter 8

Snapshots

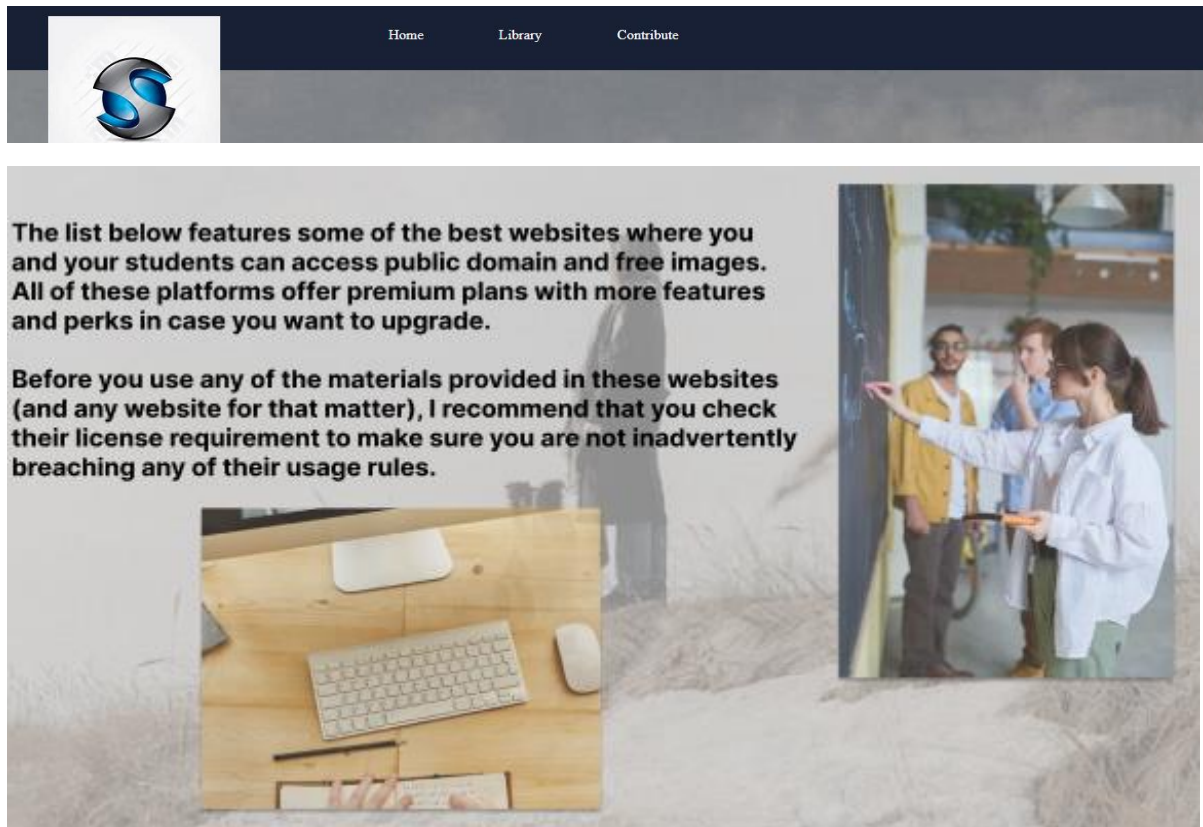


FIG 8.1 HOME PAGE

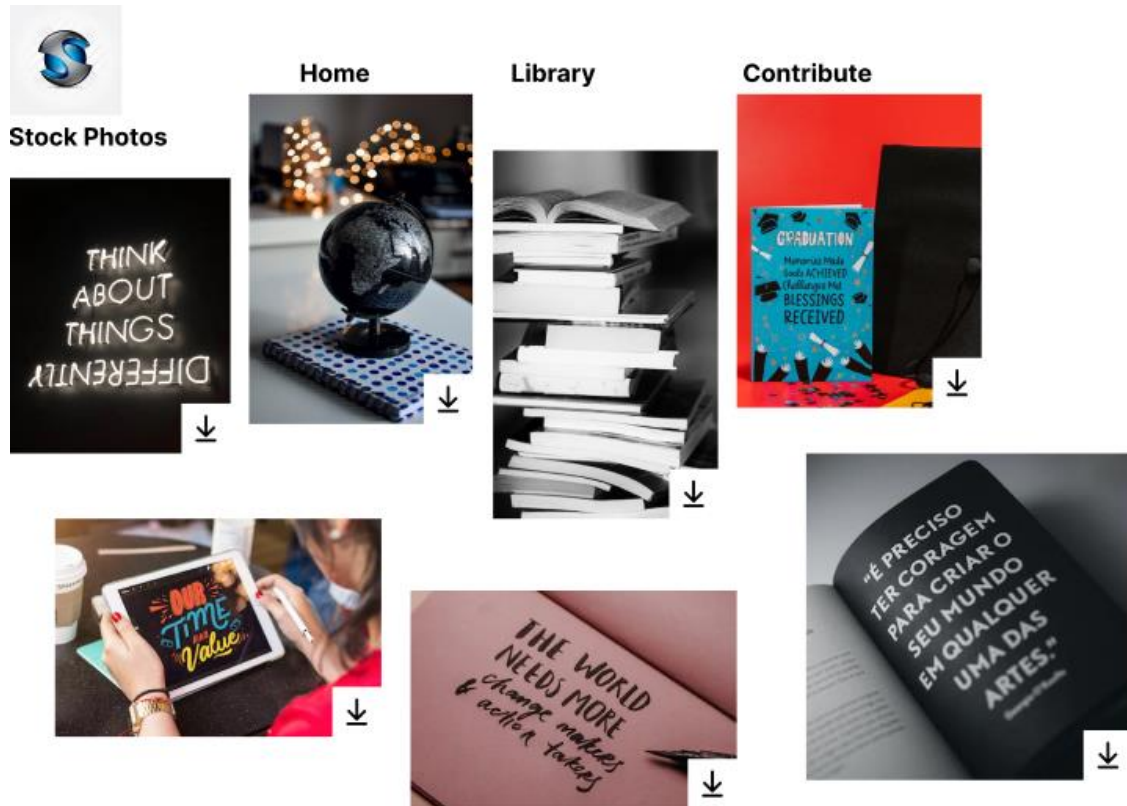


Fig 8.2 Library page

The image shows a web page titled 'Contribute' in the top navigation bar. The page has a dark blue background with a subtle pattern of light blue lines. On the left side, there is a registration form with the following fields and labels:

- First Name :** followed by a white text input field.
- Last Name :** followed by a white text input field.
- Email:** followed by a white text input field.
- A fourth white text input field, likely for a password, is located below the email field.

To the right of the password field is a button labeled 'browse'. At the bottom left of the form area is a button labeled 'submit'.

Fig 8.3 Contribute Page

Chapter 9

CONCLUSION

Working as an intern in the company provided various benefits and they are as follows:

- Gained valuable experience An internship provides the opportunity to gain hands on work experience that is not possible to get in the classroom and also companies train interns and help in gaining the experience required to get a job.
- Got an edge in the job market Employers are usually more concerned with the work experience than the qualifications and internships are often the only way to get the work experience that is required to secure a job, so pursuing internship have a vital role in the resume. Many employers prefer or require applicants pursuing internship or relevant work experience.
- Transition into a job Employers see interns as prospective employees, so by performing well one can finish internships and continue working with the company.
- Apply classroom knowledge It's a chance for interns to prove the worth of the qualifications and to show the ability to perform a role that has been assigned.
- Developing new skills Our strengths and weaknesses can be learnt by creating learning objectives and receiving feedback from our supervisor

Challenges faced

Many challenges were faced in the company during the internship period and they are as follows:

- The internship was much different from college academics and it takes little time to adjust to the environment and schedule.
- Initially it is difficult to understand the works assigned to us.

Chapter 10

REFERENCES

1. <https://www.w3schools.com/>
2. <http://www.udemy.com/>
3. <http://www.pexels.com/>