VISVESVARAYA TECHNOLOGICAL UNIVERSITY

### C:\Users\SathishShetty\Desktop\PhD 16\vtu.pngJnana Sangama, Belagavi - 590018

**Internship Report on**

“WEB DEVELOPMENT”

Submitted in partial fulfillment for the award of the degree of

# BACHELOR OF ENGINEERING

**in**

**INFORMATION SCIENCE & ENGINEERING**

*(Accredited by NBA)*

**By**

# SINCHANA VENUGOPAL

## 4MT20IS041

**Internship Carried out at**

**INVENGER TECHNOLOGIES**

|  |  |
| --- | --- |
| **Internal Guide**  **Mr. Rajesh N Kamath Senior Assistant Professor** | **External Guide**  **Mr. Narasimha Mallya**  **General Manager** |



**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

**(*Accredited by NBA*)**

## MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

(*A Unit of Rajalaxmi Education Trust®, Mangalore - 575001*)

Autonomous Institute Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi

Accredited by NAAC with A+ Grade, An ISO 9001: 2015 Certified Institution

Badaga Mijar, Moodabidri-574225, Karnataka

### 2023-24

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***CERTIFICATE***

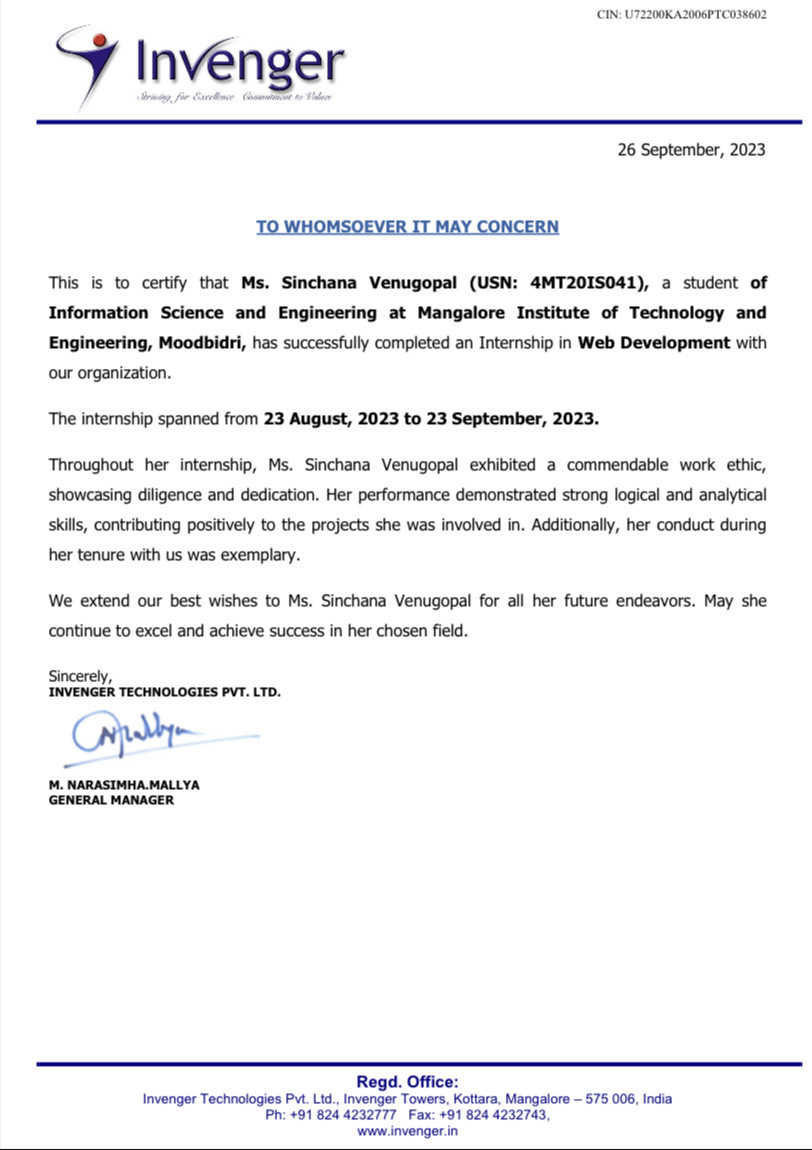
Certified that the Internship report entitled “**WEB DEVELOPMENT”** is a bonafide work carried out in the eighth semester by **SINCHANA VENUGOPAL** with USN: **4MT20IS041** in partial fulfillment for the award of degree of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year **2023 – 24.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report and deposited in the departmental library. The internship report has been approved as it satisfies the academic requirements in respect of internship work prescribed for the said degree.

|  |  |  |
| --- | --- | --- |
| **Mr. Rajesh N Kamath** | **Mr. Manjunath H.** | **Dr. Prashanth C M** |
| **Internship Guide** | **Head of the Department** | **Principal** |

**External Viva**

External Viva Name of the Examiners Signature with Date

# INTERNSHIP CERTIFICATE



**ACKNOWLEDGEMENT**

Thoughtful gratitude fills my heart, as I take a step back in time to thank people involved in successful completion of this task, without whose continuous guidance and support, it wouldn’t have been possible for me to accomplish the same.

Special thanks to **Invenger Technologies** Company for providing invaluable internship opportunity which has been instrumental in enhancing my skills and knowledge.

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SINCHANA VENUGOPAL

(4MT20IS041)

# ABSTRACT

A web development internship provides an opportunity for individuals to gain practical experience in building and maintaining websites. During this internship, interns can expect to learn about front-end web development, back-end web development, and database management. They will also learn how to use various programming languages such as HTML, CSS, JavaScript, and PHP. Throughout the internship, interns will work closely with senior developers to create dynamic and responsive websites that meet the needs of clients. They will also assist in maintaining existing websites, troubleshooting issues, and implementing updates. In addition to technical skills, interns will also develop valuable soft skills such as communication, teamwork, and time management. They will learn how to collaborate with other developers and designers, communicate effectively with clients, and manage their workload to meet project deadlines. A web development internship provides an excellent opportunity for individuals interested in pursuing a career in web development to gain practical experience and develop the skills needed to succeed in the field. It is an excellent way to gain a competitive edge in the job market and set oneself up for a successful career in web development. Furthermore, interns will have the chance to delve into emerging technologies and industry best practices, staying updated with the latest trends in web development. This exposure will enable them to adapt quickly to evolving technologies and stay ahead in the competitive landscape of web development. Moreover, interns will engage in real-world problem-solving, encountering various challenges that require innovative solutions. This hands-on experience will foster their critical thinking and problem-solving abilities, essential traits for any successful web developer. Additionally, the internship may provide opportunities for networking and building professional connections within the industry. Interns may interact with professionals from different backgrounds, gaining insights and perspectives that enrich their learning experience and broaden their professional network.

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**WEEKLY OVERVIEW OF INTERNSHIP ACTIVITIES**

|  |  |  |  |
| --- | --- | --- | --- |
| **1st Week** | **DATE** | **DAY** | **NAME OF THE TOPIC/MODULE COMPLETED** |
| **28/08/2023** | **MONDAY** | INTRODUCTION TO DATA STRUCTURES |
| **29/08/2023** | **TUESDAY** | ARRAYS AND LINKED LISTS |
| **30/08/2023** | **WEDNESDAY** | STACKS AND QUEUES |
| **31/08/2023** | **THURSDAY** | TREES AND BINARY TREES |
| **01/09/2023** | **FRIDAY** | HASHING |
| **02/09/2023** | **SATURDAY** | GRAPHS |

|  |  |  |  |
| --- | --- | --- | --- |
| **2nd Week** | **DATE** | **DAY** | **NAME OF THE TOPIC/MODULE COMPLETED** |
| **04/09/2023** | **MONDAY** | INTRODUCTION TO DBMS |
| **05/09/2023** | **TUESDAY** | RELATIONAL DATABASE CONCEPTS |
| **06/09/2023** | **WEDNESDAY** | NORMALIZATION AND DATA INTEGRITY |
| **07/09/2023** | **THURSDAY** | SQL BASICS |
| **08/09/2023** | **FRIDAY** | ADVANCED SQL |
| **09/09/2023** | **SATURDAY** | INDEXING, VIEWS, AND TRANSACTIONS |

|  |  |  |  |
| --- | --- | --- | --- |
| **3rd Week** | **DATE** | **DAY** | **NAME OF THE TOPIC/MODULE COMPLETED** |
| **11/09/2023** | **MONDAY** | INTRODUCTION TO HTML |
| **12/09/2023** | **TUESDAY** | HTML SEMANTICS AND MULTIMEDIA |
| **13/09/2023** | **WEDNESDAY** | INTRODUCTION TO CSS |
| **14/09/2023** | **THURSDAY** | CSS BOX MODEL AND LAYOUT |
| **15/09/2023** | **FRIDAY** | INTRODUCTION TO SCSS |
| **16/09/2023** | **SATURDAY** | VARIABLES AND DATA TYPES IN SCSS |

|  |  |  |  |
| --- | --- | --- | --- |
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| **18/09/2023** | **MONDAY** | INTRODUCTION TO JAVASCRIPT |
| **19/09/2023** | **TUESDAY** | CONTROL FLOW AND FUNCTIONS |
| **20/09/2023** | **WEDNESDAY** | OBJECTS AND FUNCTIONS |
| **21/09/2023** | **THURSDAY** | DOM MANIPULATION |
| **22/09/2023** | **FRIDAY** | LOCAL STORAGE AND APIS |
| **23/09/2023** | **SATURDAY** | IMPLEMENTATION OF PROJECT |

*Web Development, 2023-24*

# INTRODUCTION

This internship was done at Invenger Technologies located in Mangalore. It focused on the programming languages such as HTML, CSS and Java Script. They also gave us chance to explore various features of every language we used.

Training was given to us before the project was started. There they taught us how real-world projects works, brushed up on our languages, programming skills, also made us ready to deal with the issues which would be faced while working on the project.

The training sessions conducted prior to project assignments were instrumental in preparing interns for the challenges of working on live projects. These sessions not only refreshed their programming skills but also equipped them with problem-solving techniques essential for navigating through project complexities.

When the training ended, they assigned us with the projects we had to work on. We were a team of four out of which 3 of the students belonged to a different college, which helped me to gain experience in working with new people deal with them and complete the work given. This internship shaped me in every aspect possible to make me more familiar with the industry, the way it works also the way they look at problems and solve it.

Being part of a team of four interns enabled participants to develop essential teamwork and communication skills. Collaborating with diverse individuals provided exposure to different working styles and perspectives, fostering adaptability and interpersonal skills crucial for success in the industry.

Overall, the internship experience at Invenger Technologies was transformative, shaping interns into proficient developers capable of tackling real-world challenges with confidence and efficiency. It provided a comprehensive understanding of industry practices, project dynamics, and problem-solving methodologies, laying a solid foundation for a successful career in web development.

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## CHAPTER 1

# ABOUT THE COMPANY

Company: Invenger Technologies,Mangalore India

Established on: 2012



Invenger’s array of Technology services, IT consultancy, and outsourcing services is designed to upscale companies across multiple industries, address a range of customer operational challenges, and help to tap their undiscovered possibilities. Invenger first laid out its vision in 2004, and with almost 2 decades of the operational roll-out, Invenger has earned immense expertise to help you deliver to the best of your potential and surpass customer expectations.

A trailblazer in building innovative solutions tailor-made for your requirements. Pioneered in digital product engineering and now offering a vast radius of services to give your company a game-changing breakthrough. Invenger has emerged reliable for its clients to understand and map different dimensions of their technical and business needs from planning, operations, and support. Leveraging strong partnerships, Invenger has mapped its global presence across countries to serve its patrons the best.

Here are some of the software development services provided by Invenger Technologies:

Data Entry Solutions: Tap the perfect boost of productivity and efficiency under the benefits of ultimate data entry solutions! We let quality and security join hands as we provide responsive

attention to every client’s unique needs. Blending in with the culture and skin of the client company, Invenger offers you personalized data entry solutions, with our forefront technology and skill set.

Customer Support Solutions: Invenger takes care of inbound and outbound customer support services with a trained and committed band workforce. Letting no cultural blockades intervene in productivity, Customer support outsourcing services have proactive, round-the-clock, polylingual service providers on board that prioritize people solutions with a new outlook on technology.

Operation Consultation: At Invenger, our Operation consultation team are skilled to analyze and evaluate an organization’s operations, identify areas of improvement, and provide recommendations for optimizing efficiency and effectiveness. The process involves examining various aspects of the organization, such as supply chain management, production processes, marketing strategies, financial management, and more. The ultimate goal of an operation consultation is to help the organization reduce costs, increase productivity, improve customer satisfaction, and achieve other operational objectives.

##### OBJECTIVES:

To continue to thrive as a strong business in the future, we look ahead, understand the trends and forces that will shape our business, and take proactive steps to meet the future gracefully. Our vision serves as a roadmap and guides every aspect of our business to continue achieving sustainable, quality growth. By integrating the best resources, knowledge, and values, we derive the maximum returns for our customers, investors, and employees.

Right from the process of planning to execution, we believe in working with utmost transparency, mutual trust, and respect. We believe we can tap the many benefits of a resource when it is well explored collaboratively. We address each project to reap outputs of value, surpass customer expectations, and bring new perspective.

## CHAPTER 2

# TECHNICAL ASPECTS

For the completion of the tasks the following web languages and scripts have been used: HTML, CSS, JavaScript, PHP, and Python, which are used to build the structure and design of web pages. Web development frameworks like React, Angular, and Vue.js are used to develop dynamic and responsive web applications. Version control systems like Git are used to manage code changes and collaboration. Server-side scripting languages like PHP are used to interact with databases and generate dynamic web pages. Web design is also an essential aspect of web development, which involves creating visually appealing and user- friendly websites using design principles and tools like Adobe Photoshop and Sketch. Finally, web hosting and deployment using services like AWS or Heroku ensures that web applications are accessible to users.

### Domain:

##### HTML

What I had to take in mind prior to starting the project was accessibility issues and web standards.

I had written a strict XHTML file that contains two sections - one list (<ul>) section for the flag buttons and another (<div>) for the modification buttons. One major concern of web accessibility is the use of images. It is considered best practice to add “alt” and “title” attributes for users who cannot distinct images.

The lang attribute is also set as English (lang=”en”) in order to inform the browser of the default human language of the script, which is essential for the proper reading of the web page by certain technologies for the disabled.

##### CSS

The main styling is stored in an external spreadsheet, although the HTML DOM style object has also been used to change some settings while the JavaScript is being loaded. For example the Save button for the edit module has set visibility to “hidden” in the external stylesheet,

but the property changes to “visible” when the edit button is clicked to avoid potential confusion. I have also used SCSS .

Another method I have used to change properties inside JS is the jQuery CSS () method. I have found it to be effective in changing background and border properties of objects.

##### JAVA SCRIPT

JavaScript is a programming language that is widely used in web development. It is a key component of front-end web development, used to create interactive and dynamic web pages. JavaScript is used to add interactivity to web pages, validate user input, and create animations and effects. It is also used on the server-side using Node.js to build back-end applications, APIs, and real-time web applications. JavaScript frameworks and libraries like React, Angular, and Vue.js are used to build complex web applications quickly and efficiently. Overall, JavaScript is a critical technology for web development and is used in various domains, including e-commerce, social media, entertainment, and education.

## CHAPTER 3

## INTERNSHIP DETAILS

* 1. **FIRST WEEK****: [23/08/2023 TO 02/09/2023]**

**3.1.1 DSA**

DSA or Data Structures and Algorithms is an essential field of study within computer science education. It deals with the organization, storage, and retrieval of data in computer programs, and also involves designing efficient algorithms for manipulating and processing data quickly. DSA plays a critical role in helping programmers solve complex problems, optimize code, and develop scalable software applications. To achieve these objectives, DSA relies on a range of fundamental data structures like arrays, linked lists, trees, stacks, and queues, which are used to store and organize data. Additionally, DSA algorithms are used to solve a wide range of computational problems such as sorting, searching, and graph traversal. Ultimately, the goal of DSA is to create reliable, efficient, and scalable software solutions capable of handling large volumes of data. Mastery of DSA requires a solid foundation in computer programming, mathematical skills, and logical reasoning. Fortunately, several programming languages such as C++, Python, and Java have built-in libraries and frameworks to aid in implementing DSA algorithms and data structures.

##### OOPS CONCEPT

Object-oriented programming (OOP) is a programming paradigm that revolves around the concept of "objects" and their interactions. In OOP, an object is an instance of a class, which encapsulates data and behavior into a single unit. There are four main pillars of OOP: encapsulation, inheritance, polymorphism, and abstraction.

Encapsulation refers to the ability to hide data and methods within a class, protecting them from external access and manipulation. Inheritance allows classes to inherit properties and methods from parent classes, reducing code duplication and promoting code reuse. Polymorphism allows objects of different classes to be treated as if they were of the same class, simplifying code and increasing flexibility. Abstraction is the process of hiding implementation details while exposing only the necessary functionality.

OOP is beneficial for many reasons, including code organization, maintainability, and scalability. By encapsulating data and methods within a class, OOP promotes modularity and reduces the likelihood of naming conflicts. Inheritance promotes code reuse, saving developers time and effort. Polymorphism simplifies code, making it easier to read and understand. Abstraction reduces complexity, making it easier to reason about code.

Overall, OOP is a powerful programming paradigm that offers many benefits to developers. By leveraging the principles of encapsulation, inheritance, polymorphism, and abstraction, developers can create well-organized, maintainable, and scalable codebases that are flexible and easy to work with.

## SECOND WEEK: [04/09/2023 TO 09/09/2023]

##### DATABASE

A database is a separate application that stores a collection of data. Each database has one or more distinct APIs for creating, accessing, managing, searching and replicating the data it holds. A database is similar to a data file in that it is storage place for data. Like a data file, a database does not present information directly to a user, the user runs an application that accesses data from the database and presents it to the users in an untestable format. A database typically ha two components: the files holding the physical database access data.

##### STRUCTURED QUERY LANGUAGE (SQL)

To work with data in a database, you must use a set of commands and statements (language) defined by the DBMS software. There are several different languages that can be used with relational database; the most common is SQL. Both the American national standards institute (ANSI) and the International Standards Organization (ISO) has defined standards for SQL.

## THIRD WEEK: [11/09/2023 TO 16/09/2023]

##### HYPERTEXT MARKUP LANGUAGE (HTML)

Hyper Text Markup Language is the set of Markup symbols or codes inserted into a file intended for display on the Internet. The markup tells web browsers how to display a web pages words and images.

Each individual’s piece markup code would fall between “<” and “>” is referred to as an element, though many people also refer to it as a tag. Some elements come in pairs that indicates when some displays effect is to begin and when it is to end.

Key Take ways:

Hyper Text Markup Language (HTML)is the basic scripting language used by web browsers to render pages on the world wide web.

Hypertext allows a user to click a link and be redirected to a new page referenced by that link.

Early versions of HTML were static, while newer interactions feature a great deal of dynamic flexibility.

Markup is the text that appears between two pointed brackets and contents is everything else. Example:

<!DOCTYPE>

<html>

<head>

<title>This is the document title</title>

</head>

<body>

<h2>This is header</h2>

</body>

</html>

##### CASCADING STYLE SHEETS (CSS)

**CSS** is acronym of **Cascading Style Sheets.** It helps to define the presentation of HTML elements as a separate file known as CSS file having **.css** extension. CSS helps to change formatting of any HTML element by just making changes at one place. All changes made

would be reflected automatically to all of the web pages of the website in which that element appeared.

CSS Rules

CSS Rules are the styles that we have to create in order to create style sheets. These rules define appearance of associated HTML element. The general form of CSS syntax is as follows:

Selector {property: value;}

**Key Points**

* Selector is HTML element to which CSS rule is applied.
* Property specifies the attribute that you want to change corresponding to the selector.
* Property can take specified value.
* Property and Value are separated by a colon (:).
* Each declaration is separated by semi colon (;). Advantages of CSS:
* CSS saves time: It can be written once and can be reused any number of times in building pages.
* Easy maintenance: To make a global change, simply change the style and all elements in the webpages update automatically.

Platform independence: The script offers consistent platform independence and can support latest browsers also.

##### SASSY CASCADING STYLE SHEETS (SCSS):

SCSS, or **Sassy Cascading Style Sheets**, is a preprocessor scripting language that is used to generate CSS stylesheets. SCSS is a superset of CSS, which means that it includes all the features of CSS and adds additional functionality to make styling easier and more efficient. It uses nested syntax, which helps to organize CSS code, and allows the use of variables, functions, and mixins to reduce the amount of code needed to create stylesheets. SCSS can be compiled into CSS using various tools, such as Sass and Compass, which makes it

compatible with all web browsers. Additionally, SCSS has a large community of developers and is widely used in web development. It can be used to create responsive and scalable websites, as well as to simplify the styling of complex web applications.

SCSS is particularly useful for large-scale web development projects, as it allows for the creation of reusable code and improves the maintainability of CSS stylesheets. Overall, SCSS is a powerful tool for web developers looking to streamline their styling process and create more efficient, scalable, and maintainable CSS code.

## FOURTH WEEK: [18/09/2023 TO 23/09/2023]

##### JAVASCRIPT (JS)

Client-side JavaScript is the most common form of the language. The script should be included in or referenced by an HTML document for the code to be interpreted by the browser.

It means that a web page need not be a static HTML, but can include programs that interact with the user, control the browser, and dynamically create HTML content.

The JavaScript client-side mechanism provides many advantages over traditional CGI server side scripts. For example, you might use JavaScript to check if the user has entered a valid email address in a form field.

The JavaScript code is executed when the user submits the form, and only if all the entries are valid, they would be submitted to the Web Server.

JavaScript can be used to trap user-initiated events such as button clicks, link navigation, and other actions that the user initiates explicitly or implicitly.

**Advantages of JavaScript:**

The merits of using JavaScript are –

* Less server interaction− You can validate user input before sending the page off to the server. This saves server traffic, which means less load on your server.
* Immediate feedback to the visitors− They don't have to wait for a page reload to see if they have forgotten to enter something.
* Increased interactivity− You can create interfaces that react when the user hovers over them with a mouse or activates them via the keyboard.
* Richer interfaces− You can use JavaScript to include such items as drag-and-drop components and sliders to give a Rich Interface to your site visitors.

**Limitations of JavaScript**:

We cannot treat JavaScript as a full-fledged programming language. It lacks the following important features −

* Client-side JavaScript does not allow the reading or writing of files. This has been kept for security reason.
* JavaScript cannot be used for networking applications because there is no such support available.
* JavaScript doesn't have any multi-threading or multiprocessor capabilities.

Once again, JavaScript is a lightweight, interpreted programming language that allows you to build interactivity into otherwise static HTML pages.

## CHAPTER 4

# IMPLEMENTATION

### 4.1 Crime Report Management

### Index.html

<!DOCTYPE html>

<html lang="en">

<head>

<html>

<head>

<link rel="stylesheet" type="text/css" href="bootstrap.css">

<link rel="stylesheet" type="text/css"

href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">

<link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/fontawesome/

4.4.0/css/font-awesome.min.css">

<link href="http://fonts.googleapis.com/css?family=Lato:300,400,700,300italic,400italic,700italic"

rel="stylesheet" type="text/css">

<title>Head Login</title>

<?php

if(isset($\_POST['s']))

{

session\_start();

$\_SESSION['x']=1;

$conn=mysqli\_connect("localhost","root","");

if(!$conn)

{

die("could not connect".mysqli\_error());

}

mysqli\_select\_db($conn,"crime\_portal");

if($\_SERVER["REQUEST\_METHOD"]=="POST")

{

$name=$\_POST['email'];

$pass=$\_POST['password'];

$result=mysqli\_query($conn,"SELECT h\_id,h\_pass FROM head where h\_id='$name' and

h\_pass='$pass' ");

if(mysqli\_num\_rows($result)==0)

{

$message = "Id or Password not Matched.";

echo "<script type='text/javascript'>alert('$message');</script>";

}

else

{

header("location:headHome.php");

}

}

}

?>

</head>

<body style="color: black;background-image: url(locker.jpeg);background-size: 100%;backgroundrepeat:

no-repeat;back">

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<a class="navbar-brand" href="home.php"><b>Crime Portal</b></a>

</div>

<div id="navbar" class="collapse navbar-collapse">

<ul class="nav navbar-nav">

<li><a href="official\_login.php">Official Login</a></li>

<li class="active"><a href="headlogin.php">HQ Login</a></li>

</ul>

</div>

</div>

</nav>

<div align="center" >

<div class="form" style="margin-top: 15%">

<form method="post">

<div class="form-group" style="width: 30%">

<label for="exampleInputEmail1" ><h1 style="color:white">HQ Id</h1></label>

<input type="email" name="email" class="form-control" id="exampleInputEmail1" ariadescribedby="emailHelp" size="5" placeholder="Enter user id" required>

</div>

<div class="form-group" style="width:30%">

<label for="exampleInputPassword1"><h1 style="color:white">Password</h1></label>

<input type="password" name="password" class="form-control" id="exampleInputPassword1"

placeholder="Password" required>

</div>

<button type="submit" class="btn btn-primary" name="s">Submit</button>

</form>

</div>

</div>

<div style="position: fixed;

left: 0;

bottom: 0;

width: 100%;

height: 30px;

background-color: rgba(0,0,0,0.8);

color: white;

text-align: center;">

<h4 style="color: white;">&copy <b>Suman MH</b></h4>

</div>

</body>

</html>

### Style.css

@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;400;

700&display=swap');

\*{

    box-sizing: border-box;

    margin:0;

    padding:0;

}

body {

  display: flex;

  justify-content: center;

  margin: 0;

  margin-top: 1.2em;

  font-family: 'Open Sans', sans-serif;

  background: #222;

  background-image: url('https://source.unsplash.com/1600x900/');

  background-size:cover;

  overflow:hidden;

  font-size: 120%;

}

.card {

  background: #000000d0;

  color: white;

  padding: 0.8em;

  border-radius: 20px;

  width: 100%;

  max-width: 420px;

  margin: 0.1em;

}

.search {

  display: flex;

  align-items: center;

  justify-content: center;

}

button {

  margin: 0.5em;

  border-radius: 50%;

  border: none;

  height: 44px;

  width: 44px;

  outline: none;

  background: #7c7c7c2b;

  color: white;

  cursor: pointer;

  transition: 0.2s ease-in-out;

}

input.search-bar {

  border: none;

  outline: none;

  padding: 0.4em 1em;

  border-radius: 24px;

  background: #7c7c7c2b;

  color: white;

  font-family: inherit;

  font-size: 105%;

  width: calc(100% - 100px);

}

button:hover {

  background: #7c7c7c6b;

}

h1.temp {

  margin: 0;

  margin-bottom: 0.4em;

}

.flex {

  display: flex;

  align-items: center;

  justify-content: center;

}

.description {

  text-transform: capitalize;

  margin-left: 8px;

}

.report.loading {

  visibility: hidden;

  max-height: 20px;

  position: relative;

}

.report.loading:after {

  visibility: visible;

  content: "Loading...";

  color: white;

  position: absolute;

  top: 0;

  left: 20px;

}

### Complaints.php

<?php

session\_start();

if(!isset($\_SESSION['x']))

header("location:userlogin.php");

$conn=mysqli\_connect("localhost","root","");

if(!$conn)

{

die("could not connect".mysqli\_error());

}

mysqli\_select\_db($conn,"crime\_portal");

$u\_id=$\_SESSION['u\_id'];

$result=mysqli\_query($conn,"SELECT a\_no FROM user where u\_id='$u\_id' ");

$q2=mysqli\_fetch\_assoc($result);

$a\_no=$q2['a\_no'];

$result1=mysqli\_query($conn,"SELECT u\_name FROM user where u\_id='$u\_id' ");

$q2=mysqli\_fetch\_assoc($result1);

$u\_name=$q2['u\_name'];

if(isset($\_POST['s'])){

$con=mysqli\_connect('localhost','root','');

if(!$con)

{

die('could not connect: '.mysqli\_error());

}

if($\_SERVER["REQUEST\_METHOD"]=="POST")

{

$location=$\_POST['location'];

$type\_crime=$\_POST['type\_crime'];

$d\_o\_c=$\_POST['d\_o\_c'];

$description=$\_POST['description'];

$var=strtotime(date("Ymd"))-strtotime($d\_o\_c);

if($var>=0)

{

$comp="insert into complaint(a\_no,location,type\_crime,d\_o\_c,description)

values('$a\_no','$location','$type\_crime','$d\_o\_c','$description')";

mysqli\_select\_db($con,"crime\_portal");

$res=mysqli\_query($conn,$comp);

if(!$res)

{

$message1 = "Complaint already filed";

echo "<script type='text/javascript'>alert('$message1');</script>";

}

else

{

$message = "Complaint Registered Successfully";

echo "<script type='text/javascript'>alert('$message');</script>";

}

}

else

{

$message = "Enter Valid Date";

echo "<script type='text/javascript'>alert('$message');</script>";

}

}

}

?>

<script>

function f1()

{

var sta1=document.getElementById("desc").value;

var x1=sta1.trim();

if(sta1!="" && x1==""){

document.getElementById("desc").value="";

document.getElementById("desc").focus();

alert("Space Found");

}

}

</script>

<head>

<title>Complainer Home Page</title>

<link rel="stylesheet" type="text/css"

href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">

<link rel="stylesheet" type="text/css" href="https://maxcdn.bootstrapcdn.com/fontawesome/

4.4.0/css/font-awesome.min.css">

<link

href="http://fonts.googleapis.com/css?family=Lato:300,400,700,300italic,400italic,700ital

ic" rel="stylesheet" type="text/css">

<link href="complainer\_page.css" rel="stylesheet" type="text/css" media="all" />

</head>

<body style="background-size: cover;

background-image: url(home\_bg1.jpeg);

background-position: center;">

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button type="button" class="navbar-toggle collapsed" data-toggle="collapse" datatarget="#

navbar" aria-expanded="false" aria-controls="navbar">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a class="navbar-brand" href="home.php"><b>Home</b></a>

</div>

<div id="navbar" class="collapse navbar-collapse">

<ul class="nav navbar-nav">

<li ><a href="userlogin.php">User Login</a></li>

<li class="active"><a href="complainer\_page.php">User Home</a></li>

</ul>

<ul class="nav navbar-nav navbar-right">

<li class="active"><a href="complainer\_page.php">Log New Complain</a></li>

<li><a href="complainer\_complain\_history.php">Complaint History</a></li>

<li><a href="logout.php">Logout &nbsp <i class="fa fa-sign-out" ariahidden="

true"></i></a></li>

</ul>

</div>

</div>

</nav>

<div class="video" style="margin-top: 5%">

<div class="center-container">

<div class="bg-agile">

<br><br>

<div class="login-form"><p><h2 style="color:white">Welcome <?php echo

"$u\_name" ?></h2></p><br>

<p><h2>Log New Complain</h2></p><br>

<form action="#" method="post" style="color: gray">Aadhar

<input type="text" name="aadhar\_number" placeholder="Aadhar Number"

required="" disabled value=<?php echo "$a\_no"; ?>>

<div class="top-w3-agile" style="color: gray">Location of Crime

<select class="form-control" name="location">

<?php

$loc=mysqli\_query($conn,"select location from police\_station");

while($row=mysqli\_fetch\_array($loc))

{

?>

<option> <?php echo $row[0]; ?> </option>

<?php

}

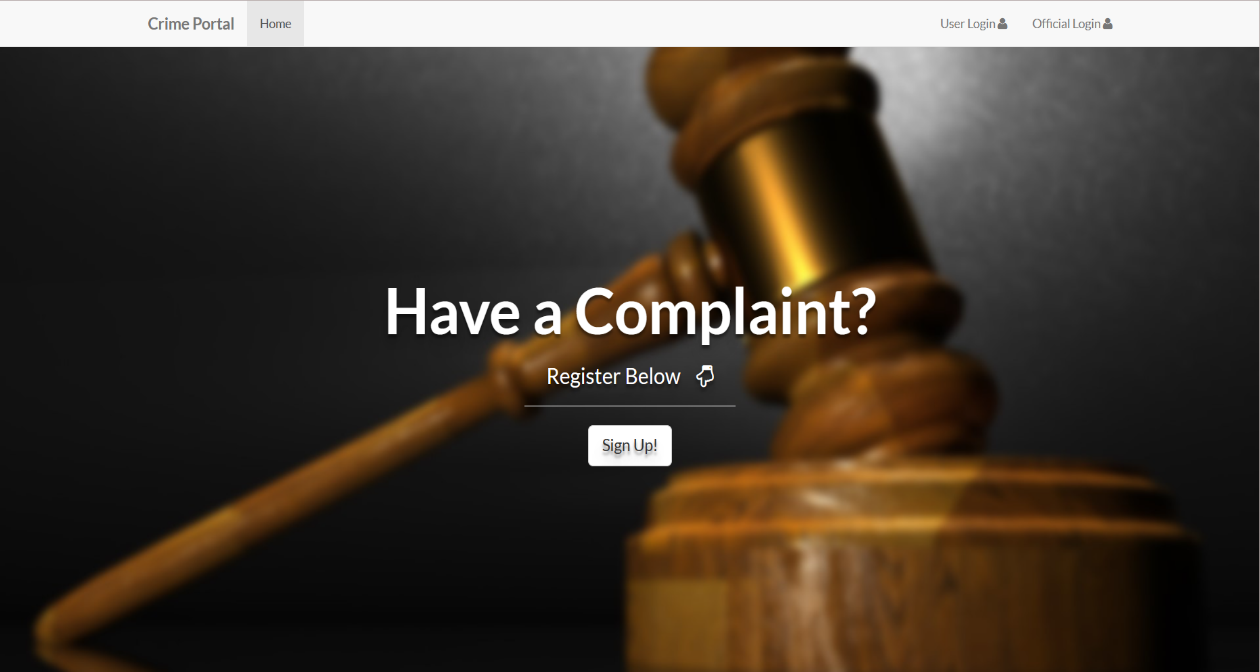
?>

## CHAPTER 5

# SNAPSHOTS

### Crime Report Management Project

### Home Page

A Home page will allow users to register their account and the officials to login to their account.

**Figure 5.1 Home page**

### 5.2 Registration page

A Registration page will ask users various details to register their account.

**A screen shot of a login form

Description automatically generated**

**Figure 5.2 Registration Page**

### 5.3 Complaint Page to report crimes

A Complaint Page allows users to register any crimes they witnessed in their surroundings.

A screenshot of a login form

Description automatically generated

**Figure 5.3 Complaint Page to report crimes**

## CHAPTER 6

# REFLECTION

There is currently no web site available online for reporting crime online. To report any crime related complaint, people should contact the nearest police station. People in a particular city

do not know about crime related things like the list of most wanted criminals in their city, the

latest crime stories, missing people in their area etc. and people should watch the news media

or read the newspaper to get such information related to crime. We can therefore say that the

current system works manually and does not provide all the information from a single source.

This reporting system will be very helpful in saving time, as it will be an immediate response

application where the user can upload the details or register the complaint immediately as soon as after the crime has been occurred. Also, the victim or the complaint giver need not to wait to reach the nearest police station or call the police for help the individual can simply login and register about the incident that has taken place. So, that the case can be assigned to the police officer in charge who can see all the details of what kind of crime has been done and all the necessary details related to the crime so that the time will be saved for writing the FIR.

**6.1 Skills Learned**

• **Programming Languages:** Proficient in HTML, JavaScript, and CSS, crucial components in developing dynamic and interactive web applications. These languages are integral to fetching and presenting data retrieved from the UserComplaints API to users in a clear and engaging manner.

• **Handling of API:** Most APIs require authentication to access their resources securely. This often involves obtaining an API key or token, which is included in API requests. Understand the different endpoints provided by the API and their functionalities

• **Data Security:** Knowledgeable about authentication mechanisms and secure data transmission protocols, critical for safeguarding user data and maintaining privacy. Implementing encryption protocols and authentication procedures ensures that sensitive information, such as user preferences and location data, remains protected throughout the data transmission process.

* 1. **Challenges Faced**

• **Handling Asynchronous Data Loading:** Crime Report retrieval from the API typically involves asynchronous operations using JavaScript's fetch API or XMLHttpRequest. Managing asynchronous data loading requires understanding concepts like promises, callbacks, or async/await syntax to handle data responses effectively.

**• Error Handling and Response Validation:** Crime Report responses may not always return the expected data due to network errors, server downtime, or invalid input parameters. Implementing robust error handling mechanisms is crucial to gracefully handle API errors, network failures, and unexpected responses, providing informative feedback to users.

**• API Rate Limiting and Quotas:** CrimeReport API, like many other external APIs, may enforce rate limits or quotas on the number of requests allowed per time interval. Developers need to implement strategies such as caching, request batching, or rate-limiting mechanisms to prevent exceeding API usage limits and ensure continuous service availability.

**• User Interface Design Challenges:** Designing an intuitive and visually appealing user interface (UI) to display crime report information can be challenging, especially for displaying complex data like whether the report is pending or not. CSS styling, layout design, and responsive web design techniques are essential for creating an engaging UI that adapts seamlessly across different devices and screen sizes.

## CHAPTER 7

# CONCLUSION

In conclusion, we can say that this internship was a great experience. Thanks to this project, we acquired deeper knowledge concerning my technical skills, but we also personally benefited. Currently HTML is a common part of web applications, and it is one of the most popular languages for web designing used by professionals worldwide. If we surf internet, we can see millions of websites designed with HTML and CSS. I learned to live in a different environment from the one we used to. Indeed, I grew more independent in work and also in everyday life. We realized that we could do more things than we thought, like learning new things by myself.

There are huge opportunities available for the students who want to work in this field. Many private and public organizations hire web designer for their online work and website development. With the rapid advent of online industry, the demand of web development. Also, an experienced person in this field can also work as a freelancer; there are many online companies which provide online projects to the individuals.

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