PHP WEB DEVELOPMENT

AN INTERNSHIP REPORT

Submitted by

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180390107028

In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

Computer Engineering

S.P.B Patel Engineering College,

Mehsana-Ahmedabad Highway

Gujarat Technological University, Ahmedabad

April, 2022

S.P.B Patel Engineering College

Near Shanku's Water Park, Ahmedabad – Mehsana Highway, Linch, Gujarat

CERTIFICATE

This is to certify that the internship report submitted along with the project entitled **Internship** has been carried out by **Niyati K Patel** under my guidance in partial fulfillment for the degree of Bachelor of Engineering in Information Technology, 8th Semester of Gujarat Technological University, Ahmadabad during the academic year 2021-22.

Prof. Nishi Patwa
Internal Guide

Prof. Akshay Kansara
Head of the Department

Date: 2nd May, 2022

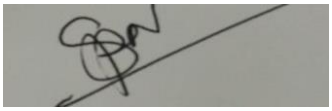
INTERNSHIP CERTIFICATE

This is to certify that **Ms. Niyati Patel** has successfully completed her internship at Krish Compusoft ServicesPvtLtd. in **PHP Department** from 7th Feb, 2022 to 30th April, 2022.

We found her sincere, hardworking and result oriented.

For,

Krish Compusoft Services Pvt. Ltd.



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DECLARATION

We hereby declare that the Internship / Project report submitted along with the Internship entitled Internship submitted in partial fulfillment for the degree of Bachelor of Engineering in Computer Engineering to Gujrat Technological University, Ahmedabad, is a bonafide record of original project work carried out by me at The supervision of Heena Dohare and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of the Student Sign of Student

Niyati K Patel

ACKNOWLEDGEMENT

I wish to express our sincere gratitude to our External guide Ms. Heena Dohare for continuously guiding me at the company and answering all my doubts with patience.

We also thank our parents, friends and all the members of the family for their precious support and encouragement which they had provided in completion of our work. In addition to that, we would also like to mention the company personals who gave us the permission to use and experience the valuable resources required for the internship.

Thus, in conclusion to the above said, we once again thank the staff members **PHP Developer** for their valuable support in completion of the project.

Thank You
Niyati Patel

ABSTRACT

PHP is widely used for developing small-scale and medium-scale mobile and web applications. Java has strong support for web development. The internship will provide the industrial exposure of working and implementations of projects developed in PHP. At the end of the internship, the intern is expected to have a sound knowledge of core PHP and Laravel concepts. The intern will work on various mini projects and is expected to complete all the tasks assigned to them during their internship timeline.

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Chapter 1
Overview of the Company

1.1 History:

Krish CompuSoft service company having team of 30 in house resources maintaining that fine balance between IT & software development services and IOE (Internet of Everything) with in-house capability to deliver the complete solution. We have experience delivering tailor-made solutions for our clients on web & mobile platform in various domains like Education, E-Learning, Healthcare, Automotive, Food & Restaurants, Travel & Tourism, Connected Car, IOT, Retail & E-commerce, Marketplaces, Smart Cities & Smart Home, Social Networking, Manufacturing & Business Automation software solution.

We have experience in working with start-ups for building Prototype, MVP development and defining road map for the product as well as we have expertise to work with giant organizations for their solutions in SaaS Development & PaaS Development with SDK's & open APIs available for users under license, by understanding of the process , standards & architecture.

We have experienced & competant team with latest technology stack which enable us to provide end to end software development services such as intuitive web development, mobile application development, Device server communication development, IOT Application Development, embedded software development & integrated solutions with data analysis & predictive analytics supported by an intuitive backend system & user interface.

1.2 Different product/ Scope of work:

The company provides solutions in various domains like medical, educational, consumer based products and many more. Our company aims to provide timely and excellent quality with a client centered approach. Well experienced developers in our company transforms the client vision into incredible applications and software by leveraging the latest technologies.

Vision of our company: The vision of our company is to enhance the business growth of our customers by delivering high-quality development services and solutions with unmatched support.

Mision of our company: Our mission is to design and develop software and applications that create value for our client

1.3 Organization Chart:

Vishak Shukla is the founder of Krish CompuSoft Services Pvt Ltd

1.4 Capacity of plant:

Our company harbors 6 Project managers under which there are 25 Team Leaders which leads a team with senior and junior developers counting about 250-300 employees

Chapter 2
Overview of different department

2.1 Details of department:

There is types of departments:

1. PHP
2. Java
3. Salesforce
4. SharePoint
5. Full Stack
6. Dot Net

   Etc….

We also have digital marketing team, testing and Quality assessment and network team with continuous support to our hardworking professionals.

2.2 List of technical specification of equipment:

Hardware Requirement	16 GB Ram, 256 GB SSD, min. 4 GB Graphics card Latest version iPad, Android Tab for testing
Software Requirements	Visual studio, VS code, VPN, X-Code, Simulators
OS Requirements	Windows 10/11, Ubuntu, MacOS, Linux
Processor	Intel I 7th/10^{th} gen

2.3 Stage of production:

There are main 3 stage of every productions: First is development and testing after that in stage and then it will be uploaded on production mode and it will be live.

Chapter 3
Introduction of Internship

3.1 Internship summary:

The internship was started on 7th February 2022 and on first day I have done my all joining process as trainee engineers and completed the paperwork.

I started off with my basic training on HTML/CSS, JS & SQL, BOOTSTRAP. When I became trained, I was assigned into dedicated technologies based on my skillful performance.

I am assigned as a junior PHP developer from March 15, 2022. In starting there are only introduction of PHP and Laravel. I started learning new things and perform practical which was given by trainer.

3.2 Purpose:

My main purpose for joining into this industrial training was to develop my skills and enhance my knowledge to become a skillful developer in this field.

3.3 Objective:

I trained rigorously for 3 months and gained a lot from our supporting seniors and from online sources too.

3.4 Scope:

There are lots of scope in internship because if I do UDP then I can't get hands on experience in well-established technology in market because in internship I get professional to guide me very perfectly.

3.5 Technology and Literature review:

I am assigned as PHP trainee. PHP is a server-side scripting language designed specifically for web development. PHP has frameworks like Laravel, Symfony, Zend framework, etc. It used in virtual Dom it means it just reload the component that is changed, and rest of components are as it is and it should not reload whole site.

3.6 Internship Planning:

3.6.1 Internship approach and justification:

Internships are very efficient for fresher in every industry as practical approach is necessary for any individual to contribute to their respective fields. They get real world experience as they face difficulties and solve their issues to make the world a better place.

3.6.2 Internship Effort and Time, Cost Estimation:

There are mainly 6 months of training provided in my company and if any trainee needs more training, organization also available to train perfect trainee in their respective work again. Even if anyone is able to do work on live then they welcome with confirmation.

I was taught on how to estimate the cost of our service with accurate planning to provide service/product to the clients.

3.6.3 Roles and Responsibilities:

As an intern I am not yet trusted with dedicated projects, but mentors give small modules/components to build which are tested by respected mentors/seniors and then implemented in specific live projects.

As time passes, I eventually get my dedicated projects to work on and deal with clients directly.

3.6.4 Group Dependencies:

As an intern I am not able to do big task in live projects so seniors gives trainee some dedicated tasks.

Projects are usually divided among a group to complete with a deadline. And there arrives a time where a module of a project gets dependent on another module to provide essential data. Dependency occurs in such timeframe.

Dependencies have a direct impact on the progress of product development, and arise frequently in cross-functional product teams. That’s why it’s so important that dependencies are clearly mapped out and planned for, to avoid any disruptions to overall product development.

Chapter 4
System Analysis:

4.1 Study of current system:

I am using windows system with version 10 and size of RAM is 8 GB and there are 4 GB Graphics also available of Intel.

4.2 Problem and weaknesses of current system:

As I get systems with 256 GB of SSD and I usually use software like visual studio, Xampp Server, SQL or Heavy run time engines, sometime the system runs out of memory.

4.3 Requirement of new system:

I require 512 GB SSD to run smoothly and comfortable system environment with comparably faster execution of programs. Also, I require key-board like TVS for fast typing.

4.4 System Feasibility:

The analysis of data is done which determine the requirement specification, description of features for new system, and specifying what information requirements will be provided. It includes analysis of factual data, identification of essential requirements, and selection of Requirement-fulfillment strategies.

4.4.1 Technical Feasibility:

Technical Feasibility deals with the hardware as well as software requirements. Technology is not a constraint to type system development. I must find out whether the necessary technology, the proposed equipment has the capacity to hold the data, which is used in the project, should be checked to carry out this technical feasibility.

The technical feasibility issues usually raised during the feasibility stage of investigation includes these.

This software is running in windows 2000 Operating System, which can be easily installed. The hardware required is Pentium based server. The system can be expanded.

4.4.2 Economic Feasibility:

This feasibility study present tangible and intangible benefits from the prefect by comparing the development and operational cost. The technique of cost benefit analysis is often used as a basis for assessing economic feasibility. This system needs some more initial investment than the existing system, but it can be justifiable that it will improve quality of service.

The project is economically feasible. It does not require much cost to be involved in the overall process. The overall objectives are in easing out the requirement processes.

4.4.3 Behavioral Feasibility:

This analysis involves how it will work when it is installed and the assessment of managerial environment in which it is implemented. People are inherently resistant to change, and computers have been known to facilitate change. The new proposed system is very much useful to the users and there for it will accept broad audience from around the world.

4.5 Process in New System / Proposed System:

The project aimed at creating a software for selling niche product online and it is delivered to customer through the shipping company. It makes the process less cumbersome and totally computerized ensuring clear transparency. Some niche (unique) Product is available in a particular area or city.

A person who required a product, but he lives far from the city so that it can’t get it easily available.

4.6 Features of Proposed System:

It provides a secure format between various client transactions and it is a flexible for all the client on the network. The main module here is the Admin, Vendor and Customer.

4.7 List Main Modules of Proposed System:

1. Admin is a main part of system: All controls about the system are configuring by the admin like User Permission, User Role, Module Rights and all other system configurations.
2. Vendor: The vendor will be connected with our system and get permission to access this system. The vendor is a seller who sells his product which is not easily available and, well-reputed.
3. Customer: Customers can order the product through the Application. Get product deliver through the shipping company on the cash on delivery payment method and also can use make payment online.

4.8 Selection of Hardware and Software:

In order to run the project system needs to have following hardware and software requirement.

Hardware Requirement

- ✓ Processor: Intel Core i3 (minimum)
- ✓ RAM: Minimum 4 GB
- ✓ Hard disk: Minimum 80 GB
- ✓ Android Phone

Software Requirement

- ✓ Windows 7 or Above
- ✓ Android SDK for development
- ✓ MySQL Database

Chapter 5
System Design

Systems design is the process of defining the architecture, product design, modules, interfaces, and data for a system to satisfy specified requirements. Systems design could be seen as the application of systems theory to product development.

5.1 System Design and Methodology:

- There are 11 different pages on one single application contains Login Page, Logout Page, Registration Page, Edit Page, Delete Page, Update Page, List Page, Upload File Page, JavaScript Page, CSS Page, Database Connection Page.
- Fully task is deployed on GitHub.
- Mainly Use PHP and HTML in specific training tasks.
- For designing CSS is used.
- For validation JavaScript is used.

5.2 Structure Design:

- How we manage our whole website or app in single page.
- How we make responsive website.
- Where we put our navbar, buttons, logo.
- How we divide our page in different different components.

Chapter 6
Implementation

6.1 Implementation Platform:

Visual Studio Code:

My main code of php as well as html is written in vs code with their respective extensions.

I get features like syntax highlighting and bracket matching, IntelliSense (code completion), and snippets out of the box and you can add more functionality through community-created VS Code extensions. I also use xampp to connect with server.

Database (PhpMyAdmin):

phpMyAdmin is a free software tool written in PHP that is intended to handle the administration of a MySQL or MariaDB database server. You can use phpMyAdmin to perform most administration tasks, including creating a database, running queries, and adding user accounts.

6.2 Technology:

Mainly I work in many technologies like HTML, CSS, Bootstrap, PHP JavaScript.

In backend department I use XAMPP server for SQL

Queries. In main task there are two technologies:

HTML:

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

CSS:

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files

PHP:

- PHP stands for Hypertext Preprocessor.
- It is easy to learn and simple to use.
- It is open-source and free.
- It is secure, fast and powerful.
- It is well connected with database.
- Php is a server-side scripting language, and a powerful tool for making dynamic and interactive Web Pages.
- Php works on various plate-forms (Windows, Linux, Unix, Mac OS X etc).
- Php support wide range of database.

6.3 Outcomes:

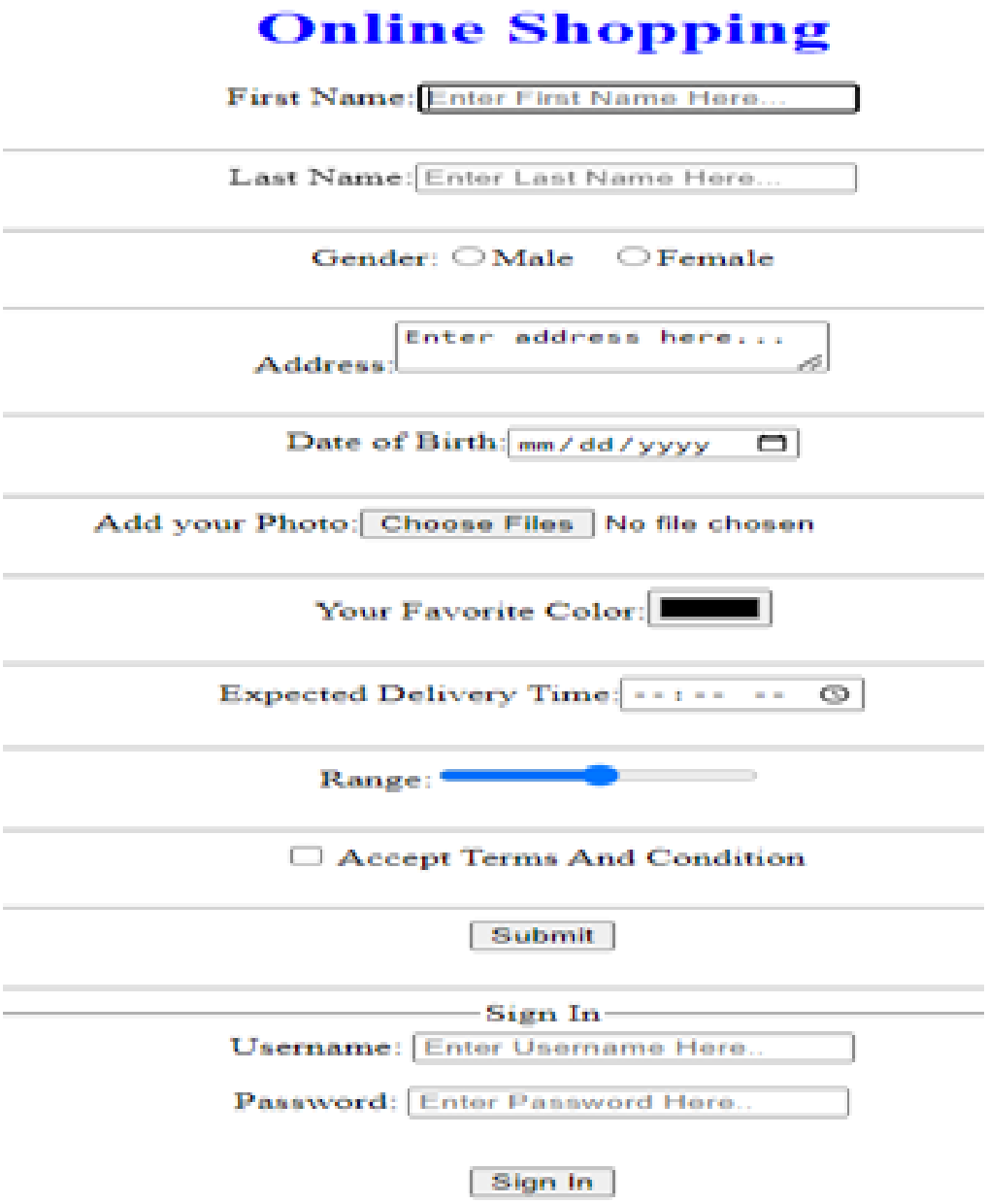


Fig 6.3.1 Html & CSS Form

Fig 6.3.2 Html & CSS Table List

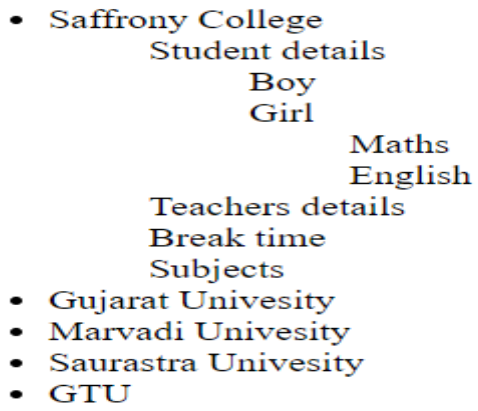


Fig 6.3.3 CSS Hover

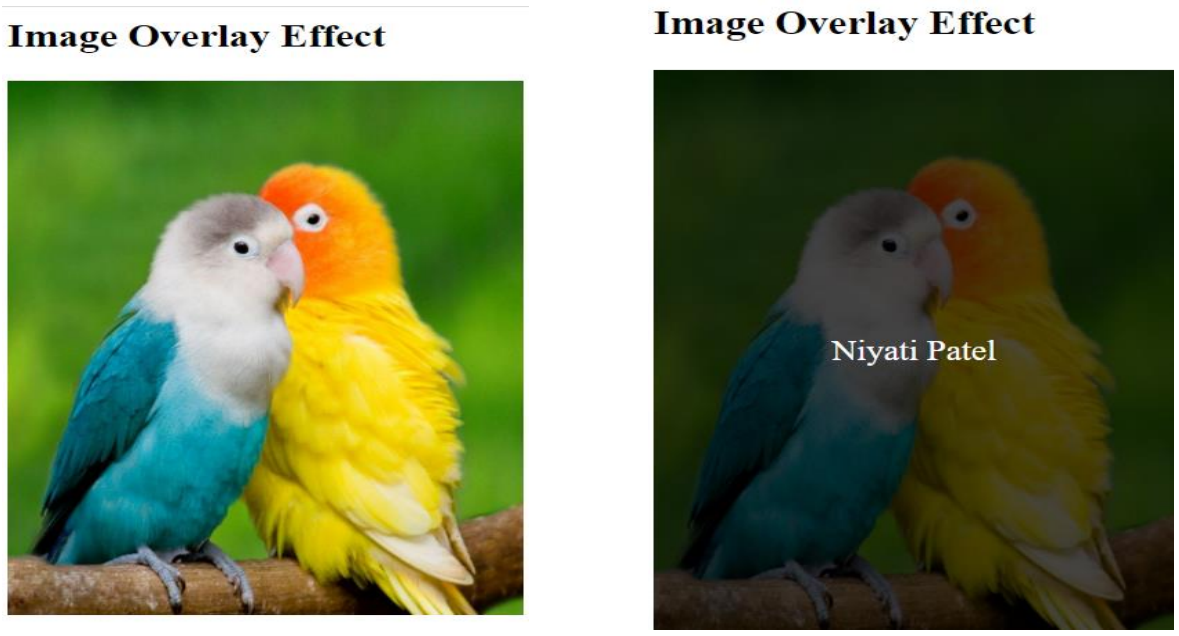


Fig 6.3.4 CSS ImageHover

Fig 6.3.5 Jquery Validation

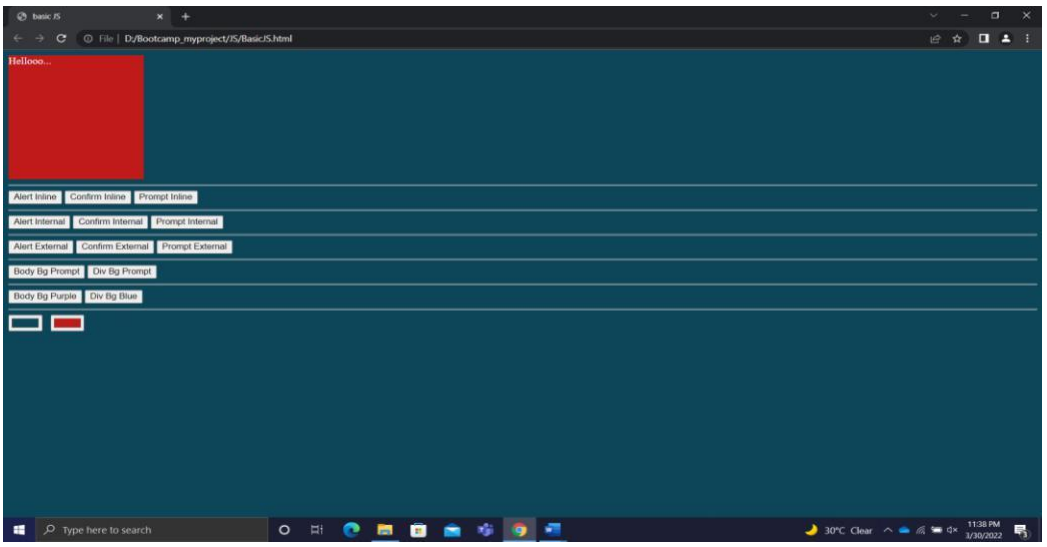


Fig 6.3.6 JS Color Change

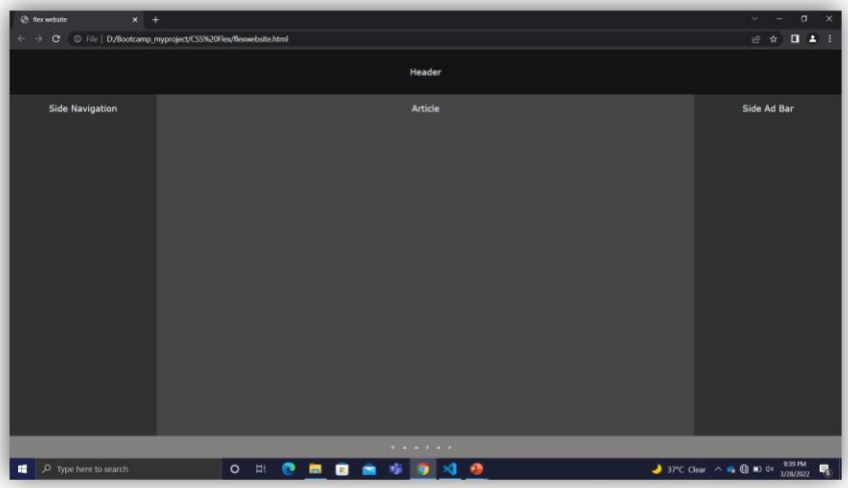


Fig 6.3.7 CSS FLEX WEBSITE

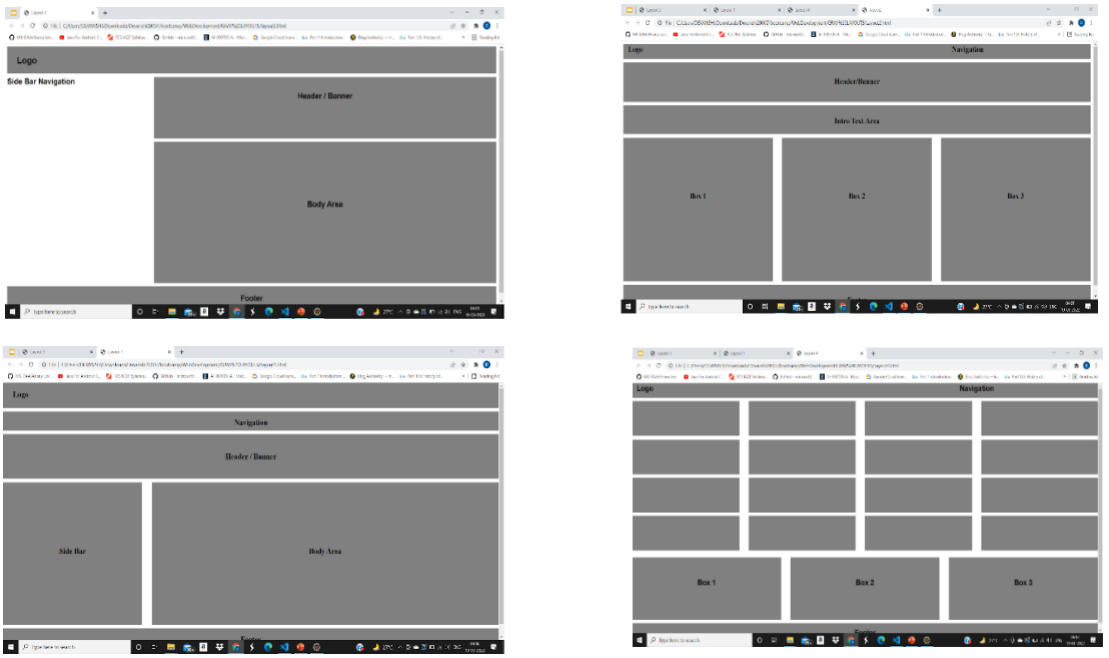


Fig 6.3.8 CSS Gray Layouts

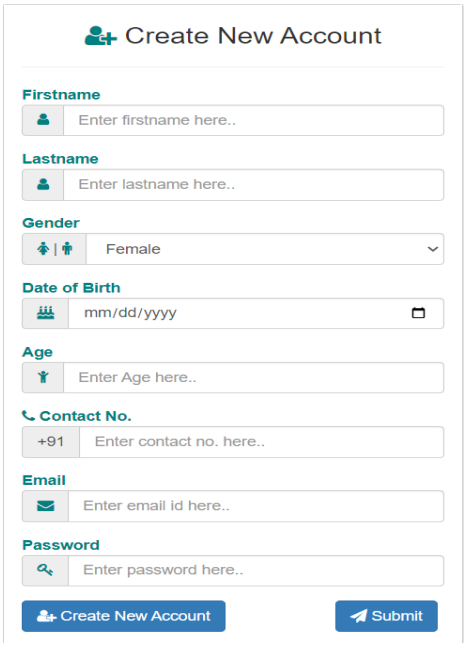
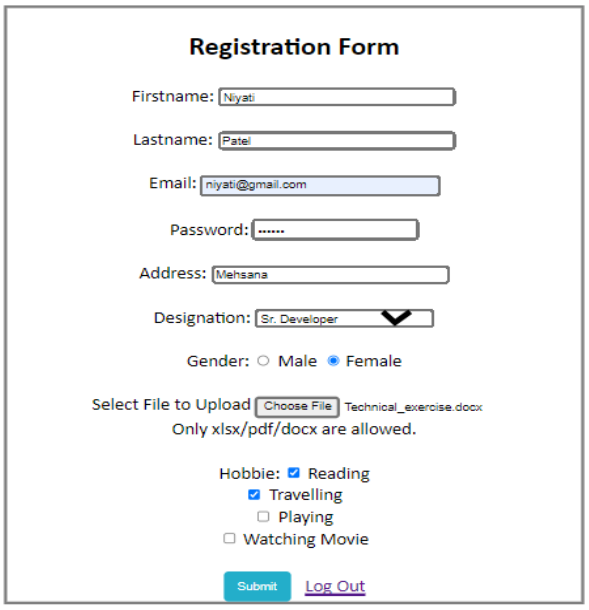
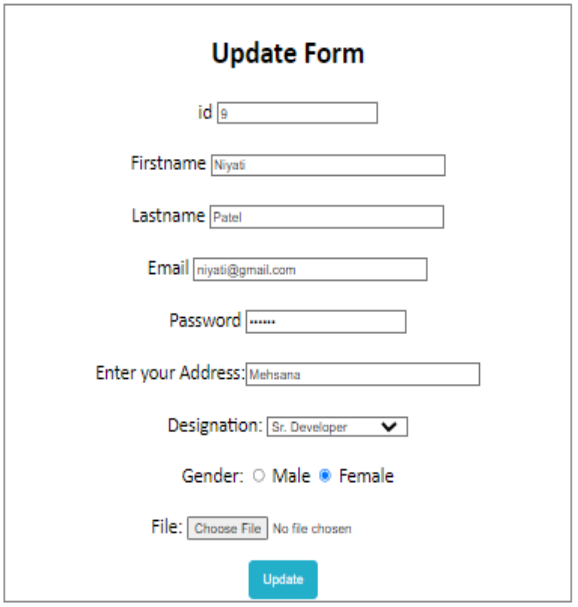
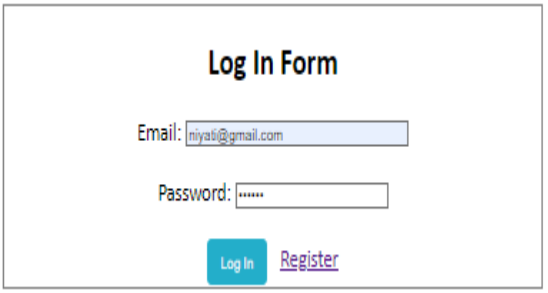


Fig 6.3.9 Bootstrap Form







Form Details

ID	Fname	Lname	Email	Password	Address	Designation	Gender	Files	Hobbie	Operation
1	Niyati	Patel	niyati@gmail.com	niyati	Mehsana	Sr. Developer	1	niyati.docx	Reading, Travelling	Delete Update
2	Anand	Patel	anand@gmail.com	anand	Ahmedabad	Project Manager	0	niyati.docx	Travelling, Watching Movie	Delete Update
4	Shreyas	Patel	shreyas@gmail.com	shreyas	Ahmedabad	Jr. Developer	0	niyati.docx	Playing, Watching Movie	Delete Update
5	Yashvi	Suthar	yashvi@gmail.com	yashvi	Kalol	Sr. Developer	1	niyati.docx		Delete Update
6	aaa	bbbb	ab@gmail.com	aaa	mehsana	Jr. Developer	0	Remaining Excersise.txt	Travelling, Playing	Delete Update
8	Shruti	Shah	shruti@gmail.com	shruti	Kalok	Jr. Developer	1	niyati.docx	Reading, Travelling	Delete Update

Fig 6.3.10 PHP Crud

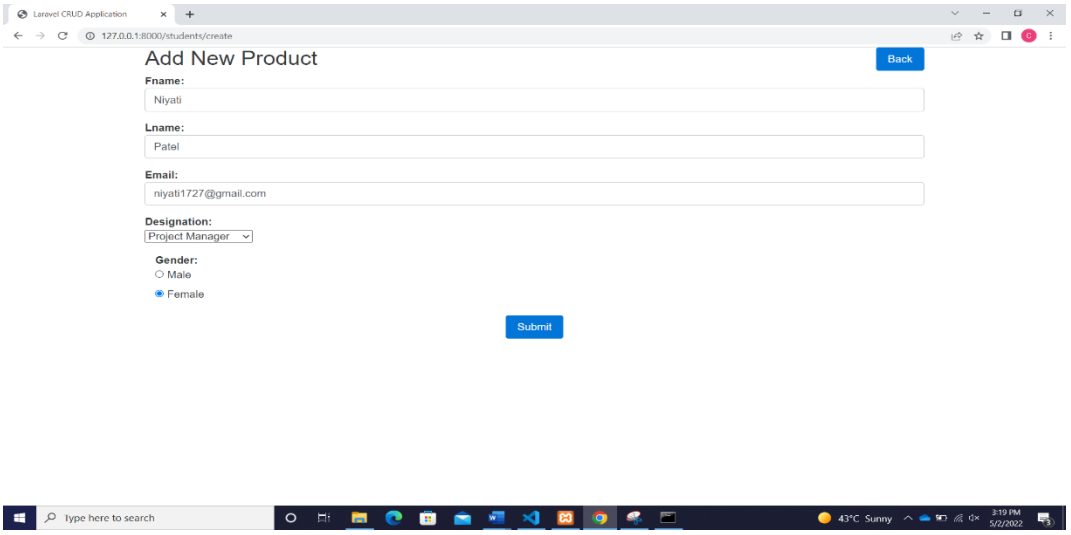


Fig 6.3.11 Laravel Create Page

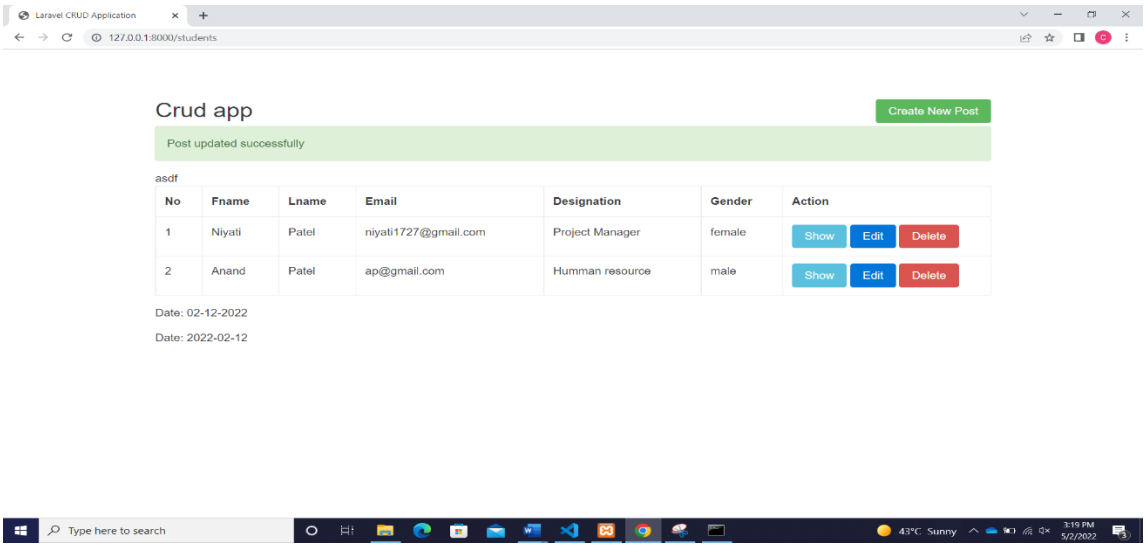


Fig 6.3.12 Laravel List Page

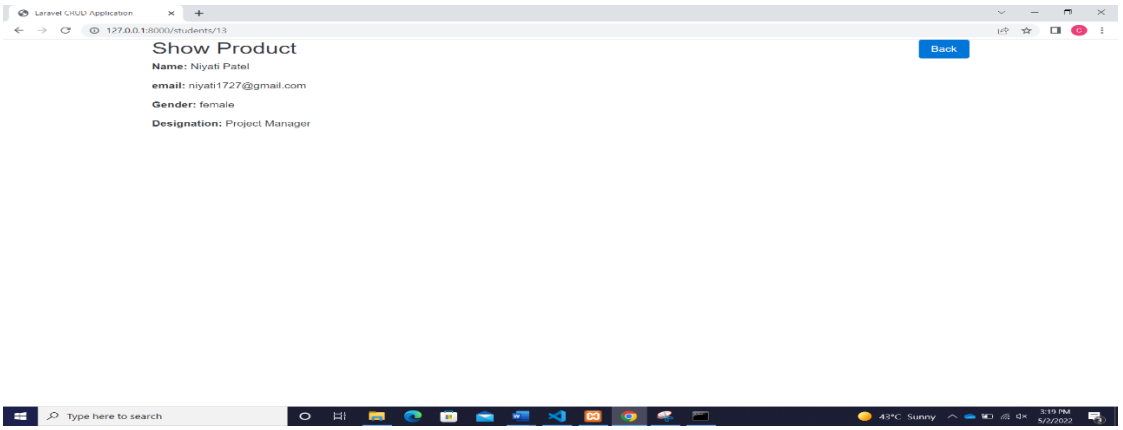


Fig 6.3.13 Laravel Show Page

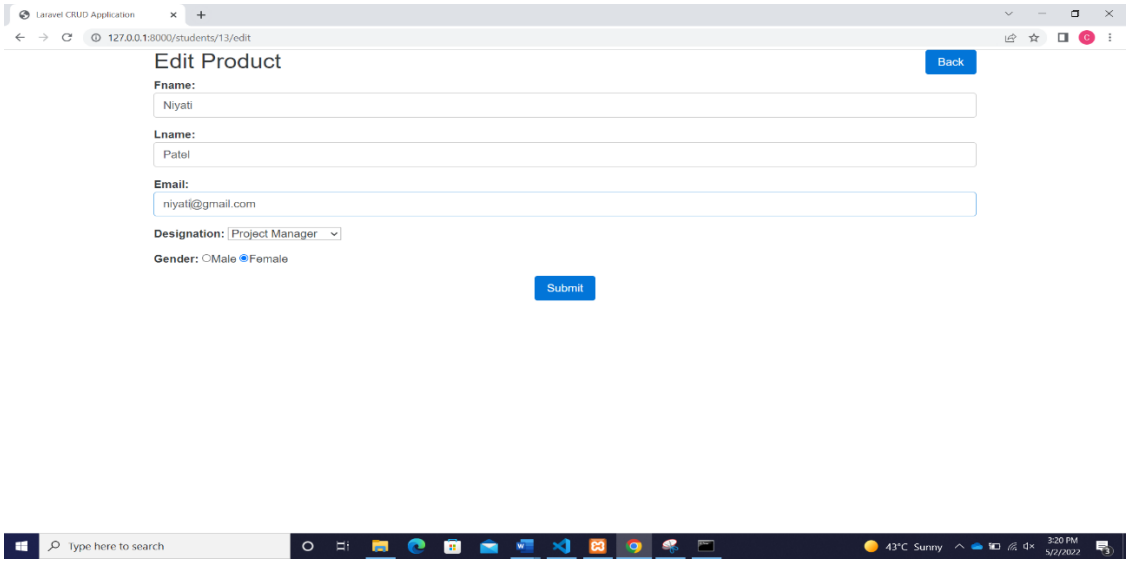


Fig 6.3.14 Laravel Edit Page

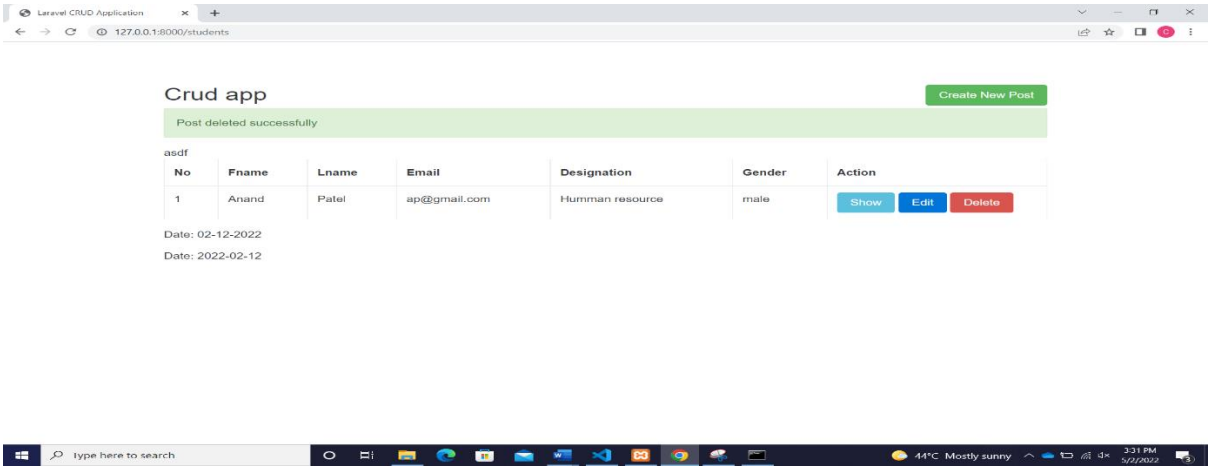


Fig 6.3.15 Laravel Delete Page

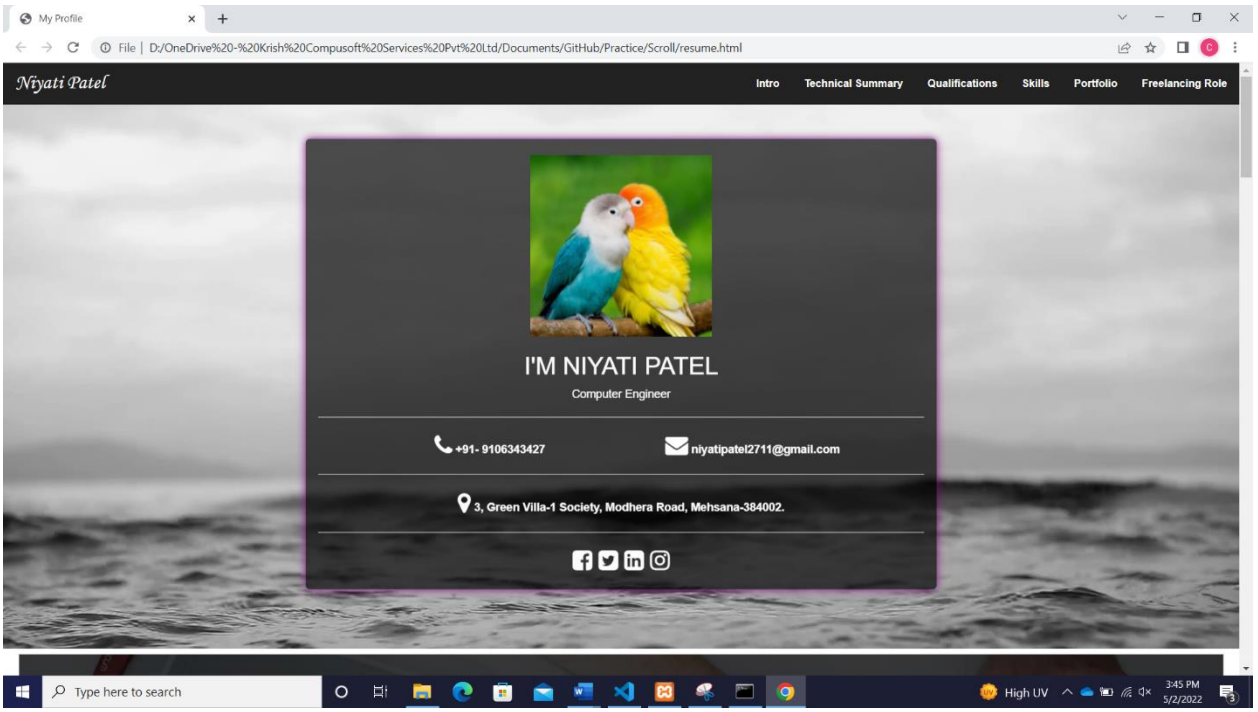


Fig 6.3.16 Scrollply Profile Home Page

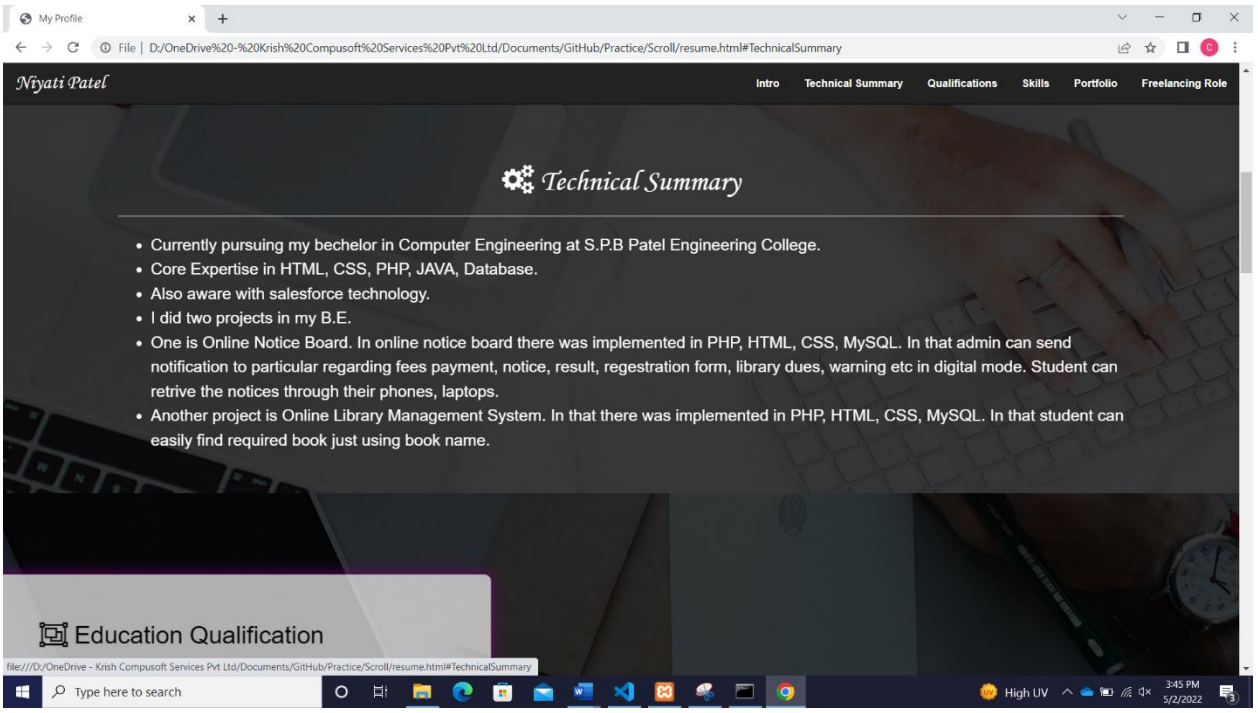


Fig 6.3.17 Scrollply Profile Technical Summary Page

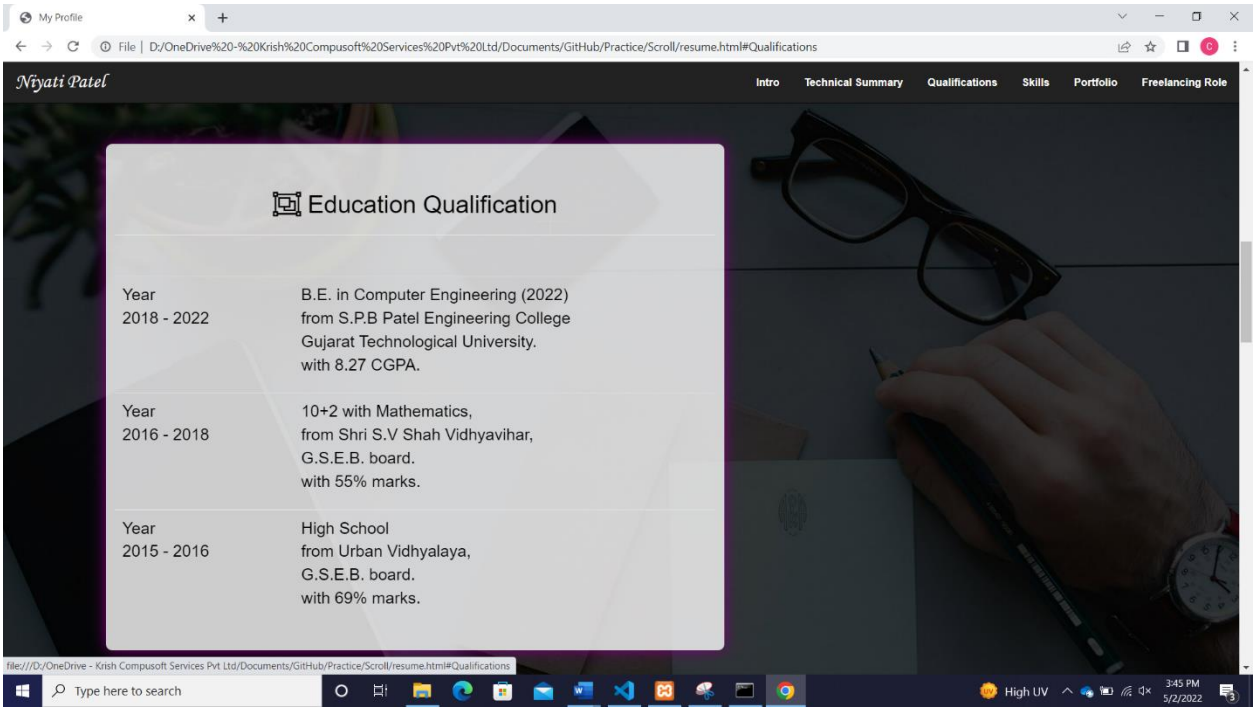


Fig 6.3.18 Scrollply Profile Education Qualification Page

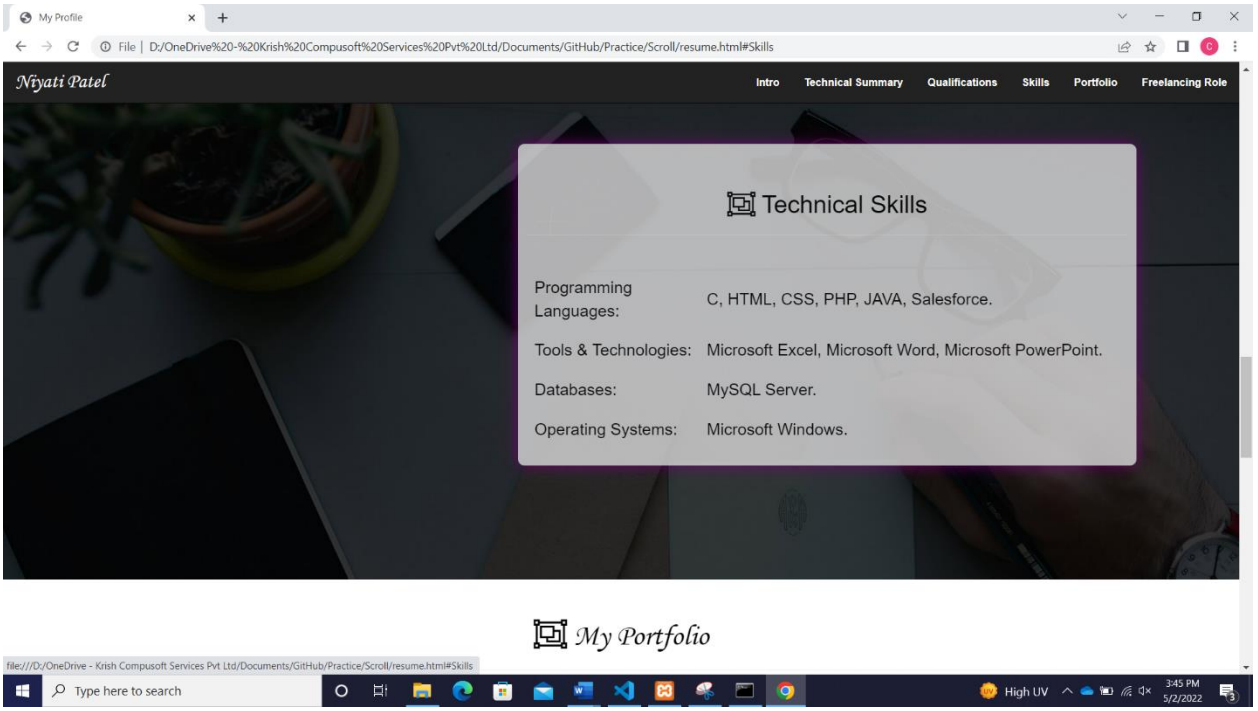


Fig 6.3.19 Scrollply Profile Technical Skills Page

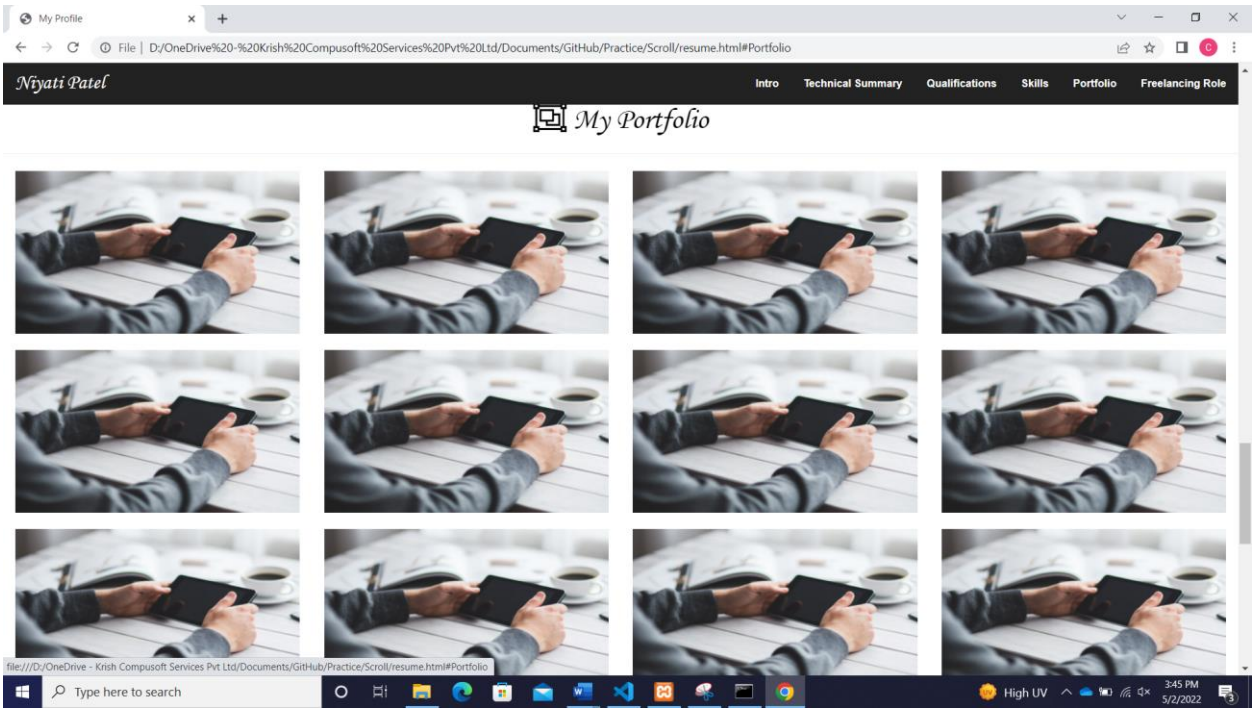


Fig 6.3.20 Scrollply Profile Portfolio Page

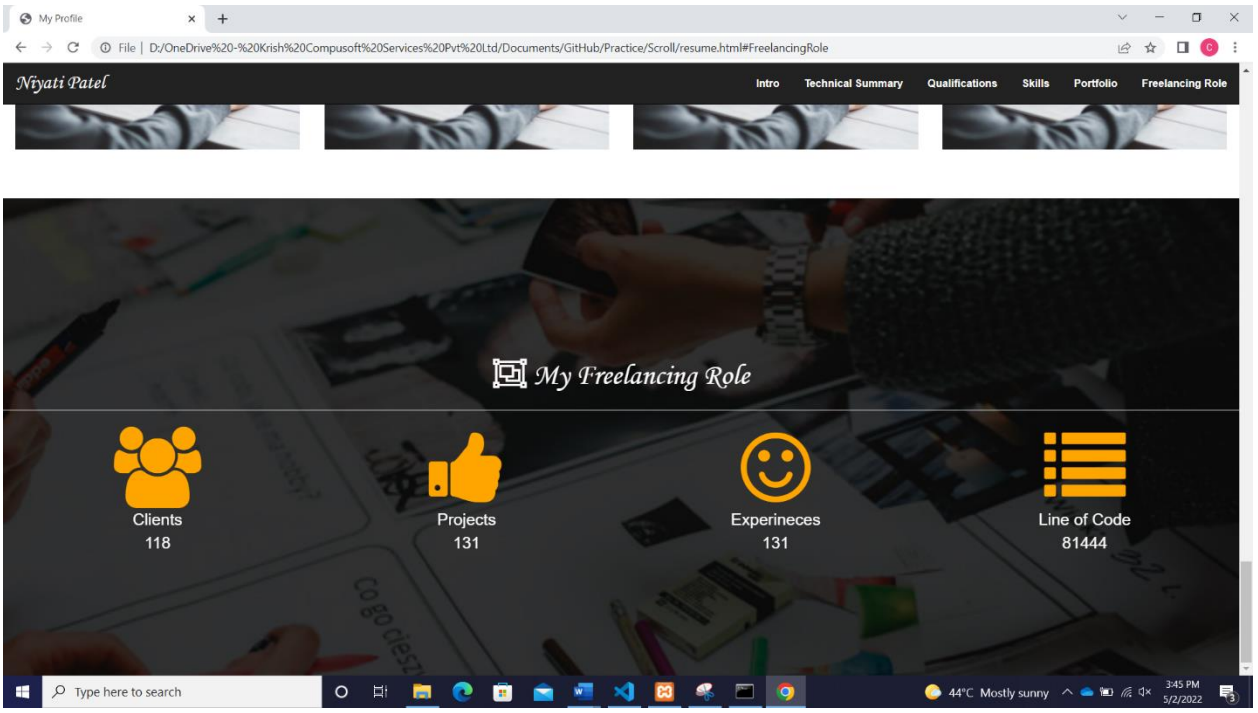


Fig 6.3.21 Scrollply Profile Freelancing Role Page

Chapter 7
Testing

7.1 Testing Strategy:

- A test plan is the cornerstone of a successful testing implementation. The testing plan represents the overall approach to the test. In many ways, the test plan serves as a summary of the test activities that will be performed. It shows how the tests will be organized, and outlines all of the tester's needs that must be met in order to properly carry out the test.

- The goal of test planning is to establish the list of tasks that, if performed, will identify all of the requirements that have not been met in the software. There are many standards that can be used for developing test plans. Early in the deployment planning phase, the testing effort, and identifies the methodology that your team will use to conduct tests

- It also identifies the hardware, software, and tools required for testing and the features and functions that will be tested. A well-rounded test plan notes any risk factors that includes a testing schedule. So, we can say that Test Planning details the activities, dependencies and effort required to conducting the system test.

7.2 Testing Results and Analysis:

Problems: -

There are some bugs that I noted down is as below: -

Id	2
Fname	First name is already existed.
Lname	Patel
Email	Email is already existed.
Designation	Human Resource
Gender	Female

Description

- Validation must be there on all the fields.
- Fname, Lname, Email field must be unique.
- All fields are required.

Steps To Reproduce:

- Enter URL in browser.
- Run the URL.
- Enter all fields.
- Submit the form.
- See in list page.

Actual Output:

Id	2
Fname	Niyati
Lname	Patel
Email	niyati@gmail.com
Designation	Human Resource
Gender	Female

7.2.1 Test Cases

- A test case is a document, which has a set of test data, preconditions, expected results and post conditions, developed for a particular test scenario in order to verify compliance against a specific requirement.

- Test Case acts as the starting point for the test execution, and after applying a set of input values; the application has a definitive outcome and leaves the system at some end point or also known as execution post condition.

Chapter 8
Conclusion and Discussion

8.1 Overall Analysis of Internship:

A Primary goal of internship is to gain as much experience as possible.
While in starting of internship there is not major tasks assigned to me, I had pay close attention to all the steps that go into completing task. I got basic training in Html, CSS, JavaScript, SQL, PHP, Laravel

8.2 Summary of Internship:

Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. An objective for this position should emphasize the skills you already possess in the area and your interest in learning more.

In this specific internship there was training of many different languages like HTML, CSS, Javascript, Node, Sql, Java, JSP etc.

8.3 Conclusion:

The work experiences I encountered during the internship allowed me to develop my skills in designing, in frontend and in backend. But additionally, I think I should make much practice in coding skills. I have learned how to work in corporate, how to communicate with clients and got deep knowledge about Java and How to work on the Project in team.

However, the overall experience was positive, and everything I learned will be useful in my future carrier on the field of IT.

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