VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"Jnana Sangama", Belgavi-590 018, Karnataka, India



An Internship Report
On

"FULL STACK WEB DEVELOPMENT"

Along with the project

"QUORA FOR ENGINEERING STUDENTS"

Submitted in Partial Fulfillment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

Submitted By

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S J C INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CHIKKABALLAPUR-562101

2021-2022

||Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust®

S.J.C INSTITUTE OF TECHNOLOGY, Chickballapur - 562101

Department of Computer Science and Engineering



CERTIFICATE

This is to certify that the Internship work entitled **"FULL STACK WEB DEVELOPMENT"** Along with the project **"QUORA FOR ENGINEERING STUDENTS"** carried out by **SAMEER PASHA R** bearing USN: 1SJ18CS085 a bonafide student of Sri Jagadguru Chandrashekaranatha Institute of Technology in partial fulfilment for the award of **Bachelor of Engineering in Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during the year **2021-22**. It is certificated that all corrections / suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies theacademic requirements in respect of Internship work prescribed for the said Degree.

Signature of Guide **Prof. Srinath G M** Assistant Professor Dept. of CSE, SJCIT	Signature of HOD **Dr. Manjunatha Kumar B H** Professor & HOD, Dept. of CSE, SJCIT	Signature of Principal **Dr. G T Raju** Principal, SJCIT

External Examiners:

Name of the Examiners	**Signature with Date**
1. C MANJUNATHA	25/7/2022
2. JAGADEESH. N	25/07/2022

||

COMPANY CERTIFICATE

Compsoft Technologies

Providing a Complete Suite of IT Solutions

Certificate ID - 1CSTFSWD04101 **Date -** 12/05/2022

Certificate of Internship

This is to certify that **Mr Sameer Pasha R (1SJ18CS085)** has done his **Full Stack Web Development** Internship in **Compsoft Technologies**, RajajiNagar, Bangalore, from 6th April 2022 to 10th May 2022.

He has worked on a project titled **Quora for Engineering Queries- A stack overflow like platform for Students**. This project was aimed at creating a cutting edge website for a client of ours, As part of the project, He designed functional webpages, Backend Databases to collect, store, and sort data, by understanding the design briefs and client Specifications that were provided in the Proposal.

During the internship, He demonstrated good design skills with a self-motivated attitude to learning new things. His performance exceeded expectations and was able to complete the project successfully on time, We wish him all the best in his future endeavours.

Warm regards,

(Project Manager, CST)

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***Search Engine Optimisation** ***Development** ***ML & Research**

***Branding and Design** ***Content Writing** ***Embedded Systems and IOT**

DECLARATION

I, **Sameer Pasha R** of VIII semester B.E in Computer science & Engineering at S J C Institute of Technology, Chickballapur, hereby declare that the Internship work entitled "QUORA FOR ENGINEERING STUDENTS " has been independently carried out by me under the supervision of **Prof.Srinath G M**, Assistant Professor of Department of CSE, and the coordinator **Prof. Swetha T** Assistant Professor department of cse, submitted in partial fulfillment of the course requirement for the award of degree in **Bachelor of Engineering** in **Computer Science & Engineering** of **Visveswaraya Technological University**, **Belgavi** during the year 2021-2022. I further declare that the report has not been submitted to any other University for the award of any other degree.

PLACE: CHICKBALLAPUR
Date: 17 May 2022

STUDENT NAME: SAMEER PASHA R
USN : 1SJ18CS085

ABSTRACT

This project consists of the development of a contributory web application to display and gather information on "QUORA FOR ENGINEERING STUDENTS" is shown in this project. Many existing websites are completely useless due to insufficient and inaccurate information. The website must first be appealing, and then the navigation must be precise. The proposed website is the more precise one in this case. The website must contain relevant and accurate information that is useful to engineering students. The proposed system is primarily intended for engineering students who need to register for internships and other courses. The website built is the best because navigation is also proposed to a greater extent without any disruption. A good platform for engineering students to post their queries and get effective answers.

ACKNOWLEDGEMENT

With reverential pranam, we express my sincere gratitude and salutations to the feet of his holiness **Byravaikya Padmabhushana Sri Sri Sri Dr. Balagangadharanatha Maha Swamiji,** & his holiness **Jagadguru Sri Sri Sri Dr. Nirmalanandanatha Swamiji** of Sri Adichunchanagiri Mutt for their unlimited blessings. First and foremost, we wish to express my deep sincere feelings of gratitude to our institution, **Sri Jagadguru Chandrashekaranatha Swamiji Institute of Technology.** For providing me an opportunity for completing my internship work successfully.

I extend deep sense of sincere gratitude to **Dr. G T Raju**, **Principal, S J C Institute of Technology, Chickballapur**, for providing an opportunity to complete the Internship Work.

I extend special in-depth, heartfelt, and sincere gratitude to our HOD **Dr. Manjunatha Kumar BH, Professor and Head of the Department, Computer Science and Engineering, S J CInstitute of Technology, Chickballapur,** for his constant support and valuable guidance of the Internship Work.

I convey our sincere thanks to Internship Internal Guide **Prof. Srinath G M, Assistant Professor, Department of Computer Science and Engineering, S J C Institute of Technology,** for his constant support, valuable guidance and suggestions of the Internship Work.

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I also feel immense pleasure to express deep and profound gratitude to our Internship Coordinator **Swetha T, Assistant Professor, Department of Computer Science and Engineering, S J C Institute of Technology,** for his guidance and suggestions of the Internship Work.

Finally, I would like to thank all faculty members of Department of Computer Science and Engineering, S J C Institute of Technology, Chickballapur for their support.

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SAMEER PASHA R (1SJ18CS085)

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CHAPTER - 1

COMPANY PROFILE

1.1 History of the Organization

Compsoft Technologies is founded by a group of Enterprise Architects having over two decades of experience in software architecture, design and development of mission critical systems for some of the Fortune 500 companies. We hire some of the best talents in the market to deliver quality software on your aggressive milestone dates. Being in the industry and having hands on experience, we fully understand the entire Software Development Life Cycle and we only hire resources who meet our high standards. All of our resources go through our rigorous interview process based on your requirements and we only select the candidates who not only technically strong but also they are fully dedicated to deliver on your promise, the success of your organization.

Our resources are expert in designing and developing applications using Agile and Scrum methodologies. Whatever your software development methodologies may be, our resources have experience in broad areas and they can pull any project successfully. We work hard to enhance continuously our reputation for accessibility, professionalism, performance, and the depth and quality of our long-term consultative relationships with our clients. We endeavor to be valued as an industry leader in client satisfaction, quality performance and reputation. All activities will be conducted to the highest ethical and professional standards.

To help our clients achieve their objectives by serving as their manpower consulting firm. Compsoft Technologies has one-to-one relationships with a number of clients, helping them benefit from all of the technologies available to them and build a better solution that exceeds client's expectation. It is our goal that offers a full range of software, consulting, support, automation combined with a wide range of technologies that enable clients to consider how they could achieve their objectives.

1.1.1 Objectives

We are committed to going the extra mile to bring success to the clients consistently. We are dedicated to delivering the right people, solutions, and services to the clients that they require to meet their technology challenges and business goals. Delivering the most efficient and the best solution to our clients to every client leveraging leading technologies & industry best practices.

1.1.2 Operation of the Organization

The race for digital transformation is on. In this globally connected on-demand world with rapid advancements in internet technologies, businesses worldwide are under constant pressure to add innovative real-time capabilities to their applications to respond to market opportunities.

Every business worldwide is building event-driven, real-time applications - from financial services, transportation, and energy, to retail, healthcare, and Gaming companies.
Our endeavor is to make it easy to develop innovative real-time applications and efficient to operate them in production.

We have a proven record of building highly scalable, world-class consulting processes that offer tremendous business advantages to our clients in the form of huge cost-benefits, definitive results and consistent project deliveries across the globe.

We prominently strive to improve your business by delivering the full range of competencies including operational performance, developing and applying business strategies to improve financial reports, defining strategic goals and measure andmanage those goals along with measuring and managing them.

1.2 Major Milestones

Compsoft Technologies is an Information Technology manpower consulting and product development firm specialized in bringing businesses and technologies together under the same umbrella. Our in-depth knowledge in developing mission critical systems for Fortune 500 companies has earned us the reputations in the marketplace. Whether you are building complex systems for your customers or migrating your legacy systems to cutting edge technologies, our resources are fully trained and equipped with the knowledge required to perform the job right, from the very first day. We serve on a wide variety of our clients including Banking, Accounting, Insurance, Healthcare, Retail, Trucking & Transportation. We have proven record of evaluating the best candidates for your requirement and stand by on the quality throughout the project implementation. In today's competitive marketplace, it is important to bring the businesses and technologies together to deliver on your promise. More than ever, Compsoft Technologies is committed to deliver on our promise so that you can deliver on yours, the success of your organization**.**

1.3 Structure of the Organization

CST, core strength lies in our super energetic and gigantic team, forming an excellent blend of IT minds along with a creative bent. Taking ownership of not only one's own task but also creating an enduring & contented customer is what every individual works together with. Our endeavour is to continuously improve and deliver maximum– enriching products & solutions. That's what we mean – doing IT better driving business transformation, digitally – Applying disruptive technologies for business transformations. CST brings great advantage to business space by bridging gaps, simplifying businesses and elevating competitive benefits by providing technology based business solutions.

Leveraging the enormous talent of our passionate and proven individuals. We are hugely a customer-centric organization that is bent upon consummating the needs of the customers beyond their expectations. We successfully host a consortium of experienced professionals who work in synergy in order to gain an edge over the market. we look at ourselves as a team where we co-create with them.

Having delivered successful projects we pride ourselves on being a sought-after mobile application development. Through the years, and have been successfully delivering value to our customers. We truly believe that our customer's success is our success We don't look at ourselves as a vendor for their projects instead. You would be excited to hear some of our stories and know to what extent we have gone in the interest of the success of our customers. and we work hard to make that happen. This philosophy and execution have resulted in a long-term partnership with most of our clients.

1.4 Services Offered

It is believed that service and quality is the key to success, Enabling business success driven by technology. Harnessing the power of technology, we create a measurable difference for our clients across various industries & multiple geographies.

Development:

We develop responsive, functional and super-fast websites. We keep User Experience in mind while creating websites. A website should load quickly and should be accessible even on a small view-port and slow internet connection.

Branding and Design:

We offer professional Graphic design, Brochure design & Logo design. We are experts in crafting visual content to convey the right message to the customers. We also design custom wraps for your products(also known as package designing).

Search Engine

Optimization We help you manage your SEO campaign more efficiently and effectively. We help you gain market share by leveraging our expertise. our holistic approach to identify anything that may be hurting your traffic or rankings and show you just how to outrank the competition.

Content Writing:

We provide content writing services for blogs and product descriptions, our team helps you generate content to Increase your Brand Recall. We can amplify your marketing needs & help you reach your potential customers

Research:

We equip business leaders with indispensable insights, advice and tools to achieve their goals, our main area of research is in sentimental analysis, having published multiple papers on the same, we are in the process of creating a virtual bot that is intended to use our sentimental analysis data to provide real time replies.

6 Embedded System and IOT:

CST works with Consumer Electronics, Lighting, Home Automation, Metering, Sensor-Technology, Home Appliance and Medical Device companies to help them create smart and connected products. Through its integrated Embedded and IoT services, Techno soft helps build intelligent & connected devices that can be remotely monitored and controlled while leveraging edge and cloud computing for a host of intelligent applications and analytics.

7 Full Stack Web Development:

Full stack web development is the practice of working on both the front-end and back end of a program. Full Stack is a layer of software or web development consisting of the front-end and the back-end portions of an application. Front-end is what the users will see or interact with on your application. Back-end part is what users do not see, such as application's logic, database, server, etc. A full-stack web developer is comfortable working with both back-end and front-end technologies which make a website or application function properly.

CHAPTER – 2

ABOUT THE DEPARTMENT

2.1 Specific Functionalities of the Department

Our department of tech support majorly focused on manage, maintain and repair IT systems.

The Special functionalities include

- Understanding the work to be completed.
- Planning the assigned activities in more detail if needed
- Completing assigned work within the budget, timeline and quality expectations
- Informing the project manager of issues, scope changes, risk and quality concerns
- Proactively communicating status and managing expectation

2.2 Process Adopted

The department aims to first understand the user requirements. Further on, a basic structure of the product that needs to be built is drawn and understood. Eventually, the technologies that would best help in developing the product are understood. If the product has database requirements, the schema and the database design are worked upon. The department believes in “Think before you code”- the requirements and logics are first understood over a paper and then are moved to a code form. Agile processes generally promote a disciplined project management process that encourages frequent inspection and adaptation, a leadership philosophy that encourages teamwork, self-organization and accountability, a set of engineering best practices intended to allow for rapid delivery of high-quality software, and a business approach that aligns development with customer needs and company goals. Agile development refers to any development process that is aligned with the concepts of the Agile Manifesto. The Manifesto was developed by a group fourteen leading figures in the software industry, and reflects their experience of what approaches do and do not work for software development.

2.3 Testing

Testing was done according to the Corporate Standards. As each component was being built, Unit testing was performed in order to check if the desired functionality is obtained. Each component in turn is tested with multiple test cases to verify if it is properly working. These unit tested components are integrated with the existing built components and then integration testing is performed. Here again, multiple test cases are run to ensure the newly built component runs in co-ordination with the existing components. Unit and Integration testing are iteratively performed until the complete product is built. Once the complete product is built, it is again tested against multiple test cases and all the functionalities.

The product could be working fine in the developer's environment but might not necessarily work well in all other environments that the users could be using. Hence, the product is also tested under multiple environments (Various operating systems and devices). At every step, if a flaw is observed, the component is rebuilt to fix the bugs. This way, testing is done hierarchically and iteratively.

2.4 Structure of the Department

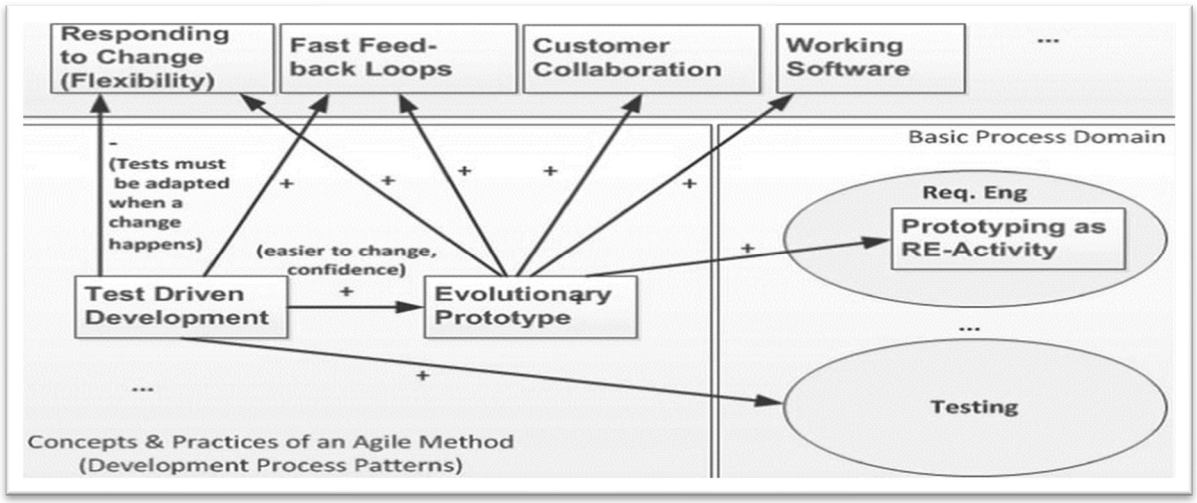


Figure 2.4.1 Structure of the Department

2.5 Roles and Responsibilities of Individuals

Since the internship was remotely conducted by the company, to ensure easy onboarding of interns, the company had individuals who took care of the smooth run of online training.

- Operation and Strategy Head- Ensured there were no difficulties for interns while onboarding. Best of mentors and doubt clarifying sessions were arranged too.
- Technical Lead- Ensured the technicalities of online training to be smooth. Best platforms were arranged for our meetings and trainings.
- Mentors- They have helped us to understand the concepts, gave us tasks to get practical take a way and clarified doubts to the best.
- Interns- Worked through the tasks given either individually or in a group

CHAPTER – 3

TASK PERFORMED

Internship was divided into two parts one is front end development and one more is backend course. In this full stack development course it was divided into two parts one is front end development and one more is backend course. Training Program The internship is a platform where the trainees are assigned with the specific task. In the initial days of the internship, I was trained on the following:

➢ HTML

➢ CSS

➢ JAVASCRIPT

➢ Python

➢ SQL

FRONT END

In front end part we have used HTML, CSS and Java Script has the web development languages mainly used for the design of the web page.

➢ **HTML** (Hyper Text Markup Language) The Hypertexts Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as CSS and scripting languages such as Java Script.

➢ **CSS**(Cascading Style Sheet) Cascading Style Sheets is a style sheet marketing used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World wide Web, alongside HTML and Java Script.

➢ **JAVASCRIPT** JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMA Script specification. JavaScript is high level, often just-in-time compiled, and multiparadigm. It has curly-bracket syntax, dynamic typing, prototype based, objectoriented, and first class function. After the completion of frontend discussion , a simple project was developed called Web page for LG company using HTML, CSS, JavaScript. It had the basic information, the photo was inserted, it also consisted of gif and a video. Navigation to second web page was also done.

BACK END

Python

- Python is programming language. Its syntax is easy and code is very readable.
- Python has a lot of applications. It's used for developing web applications, data science, rapid application development, and so on.
- Python allows you to write programs in fewer lines of code than most of the programming languages.
- The popularity of Python is growing rapidly. Now it's one of the most popular programming languages.

SQL

• SQL stands for Structured Query Language • SQL lets you access and manipulate databases

• SQL became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987

• SQL can execute queries against a database, retrieve data from a database ,insert records in a database, update records in a database, delete records from a database, create new databases, create new tables in a database, create stored procedures in a database, create views in a database, set permissions on tables, procedures, and views

CHAPTER – 4

REFLECTION NOTES

4.1 Experience

"Compsoft Technologies" was the company where I interned.Good and disciplined and focused environment. Sumukh Jadhav, Friendly mentor and experienced educator. Every endeavour requires a positive work environment and teamwork..The project's development phase and implementation provided an understanding of website construction as well as the fundamentals of using the learned technology.it was a great place for a fresher to start career and also for a corporate to boost his/her career. It has been a great experience to be an intern in such a reputed company.

4.2 Technical Outcomes

4.2.1 System Requirements and Specification

HARDWARE REQUIREMENTS:

- Processor : x86 or x64
- Hard Disk : 216 GB or more.
- Ram : 512 MB (minimum), 1 GB(recommended)

SOFTWARE REQUIREMENTS:

- Operating System : Windows or Linux
- Development Environment : Code Editor [VS Code Recommended]

4.3 System Analysis and Design

4.3.1 Existing System

Systems analysis is the process of gathering and evaluating data, identifying issues, and breaking down a system into its constituent parts. System analysis is used to investigate a system or its components in order to determine its goals. The existing website was pretty good but the information was not up to the mark. Website for queries for engineering students is very important in all the aspects. First and foremost it was not attractive and navigation friendly. The information was not very precise and knowledgeable as it include all the other informations.

4.3.2 Disadvantages of the Existing System

- Complexity as the system is not mainly concentrating on one factor but considering all the numerous data
- The existing system lagged the factor of the research work in the related field.
- This model achieved only 37% accuracy with respect to our website topic.

4.3.3 Proposed System

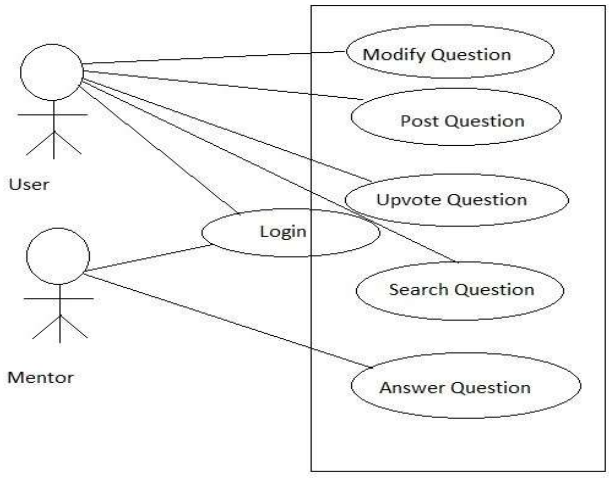
The principal objective of the research is the procedure for collecting and analysing data, finding problems, and dismantling a system into its component elements. System analysis is a technique for determining the goals of a system or its components. The existing website was functional, but the information was lacking. In all respects, a website for engineering students' queries is critical. First and foremost, it was unappealing and difficult to navigate. Because it included all of the other facts, the information was not very specific or informative.

4.3.4 Advantages of the Proposed System

- Webpage is designed with respect to public usage even a common person can also easily understand and access the information provided.
- The webpage is helpful for engineering students can post there queries in the webpage and may get a suitable solution in the answer section provided.
- Knowledge on designing of the web pages using both front end and back end technologies.

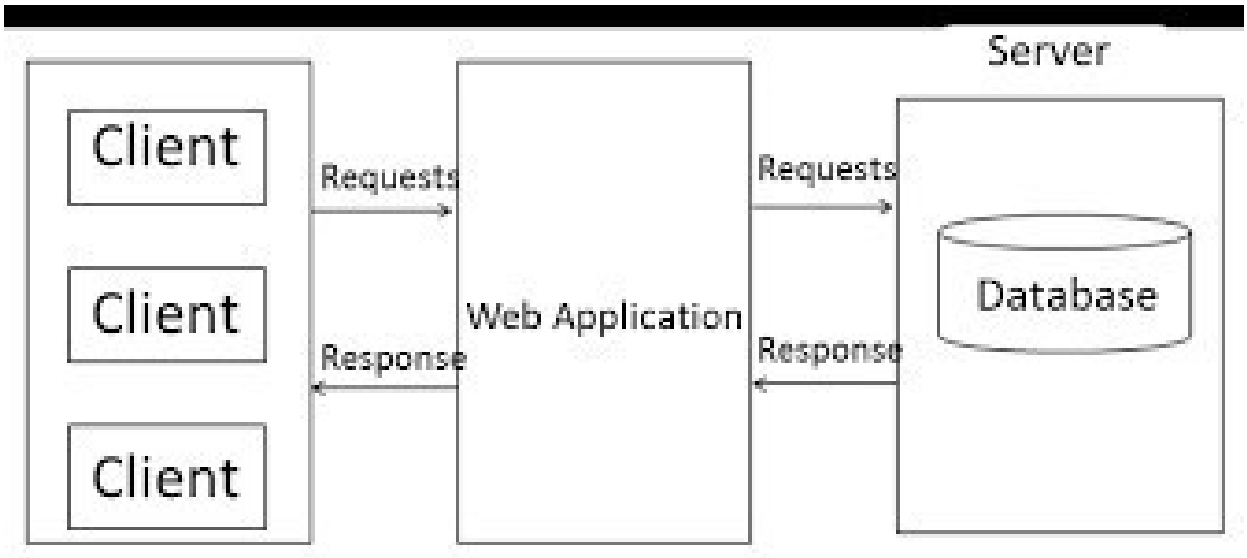
4.4 System Architecture

4.4.1 Use Case Diagram



4.4.2 Data Flow Diagram

The Data Flow Diagram in full stack web development is graphical representation of flow of data/info. It is used **to show how data is moved between different processes**. In this webpage the data is moved inside the website.When we come to the subject of websites development the main thing to be focused on is the navigation.



4.5 Implementation

4.5.1 Modules

1. Login Page
2. Home Page
   - Header
   - Sidebar
   - Contents
   - Widget

MODULES DESCRIPTION

- The basic webpage of this project is created using HTML, styling of the webpage is done using CSS and Javascript for interactive web content.
- The main objective of this project is to learn the implementation of HTML, CSS and JavaScript.
- The Website mainly include:
  1. **Header** : Includes Logo, icons, Search Bar, Ask Question Button
  2. **Content** : Includes Static Side bar, Side bar options
  3. **Feed** : Includes Information and posts with answer button
  4. **Widget** : Includes Widget Header and Contents

4.6 Screenshots

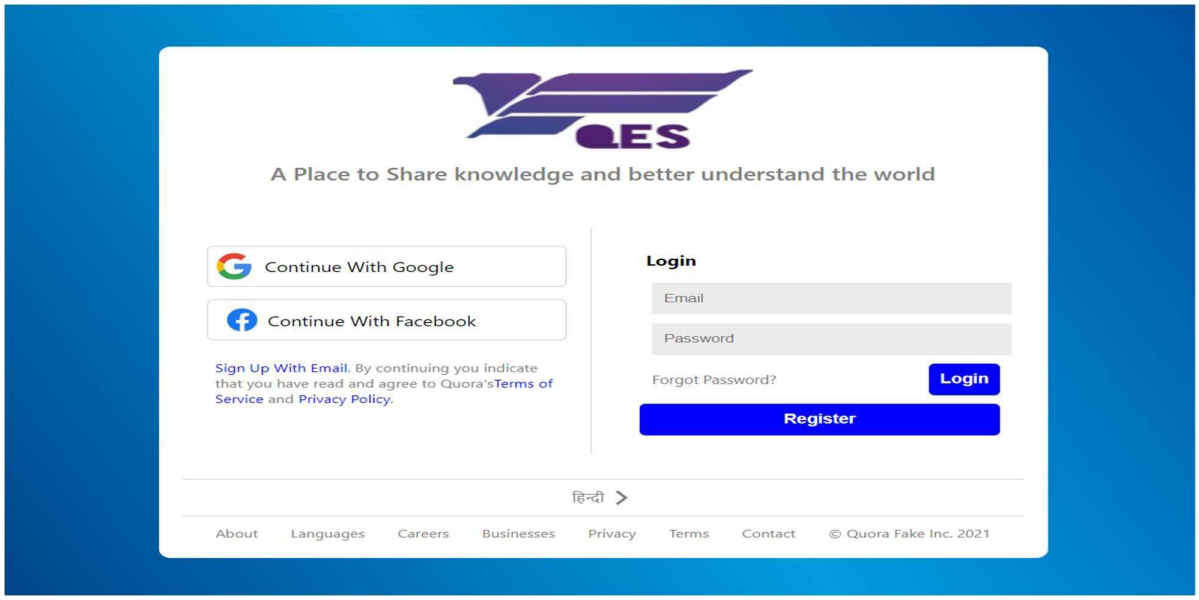


Figure 4.6.1 Login Page

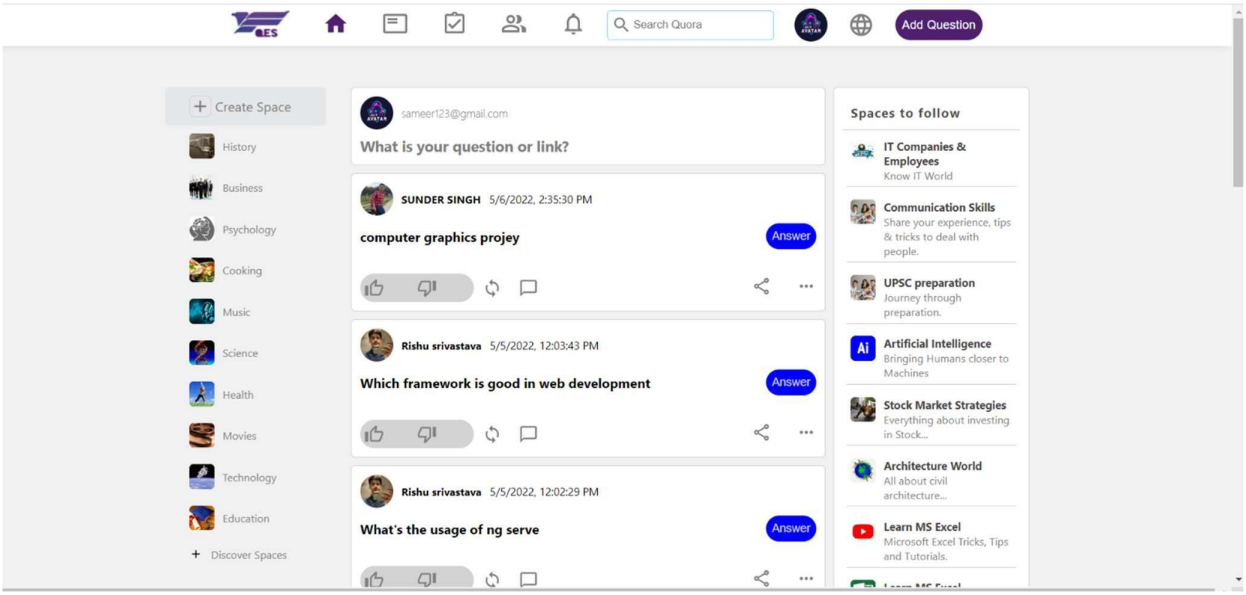


Figure 4.6.2 Home Page

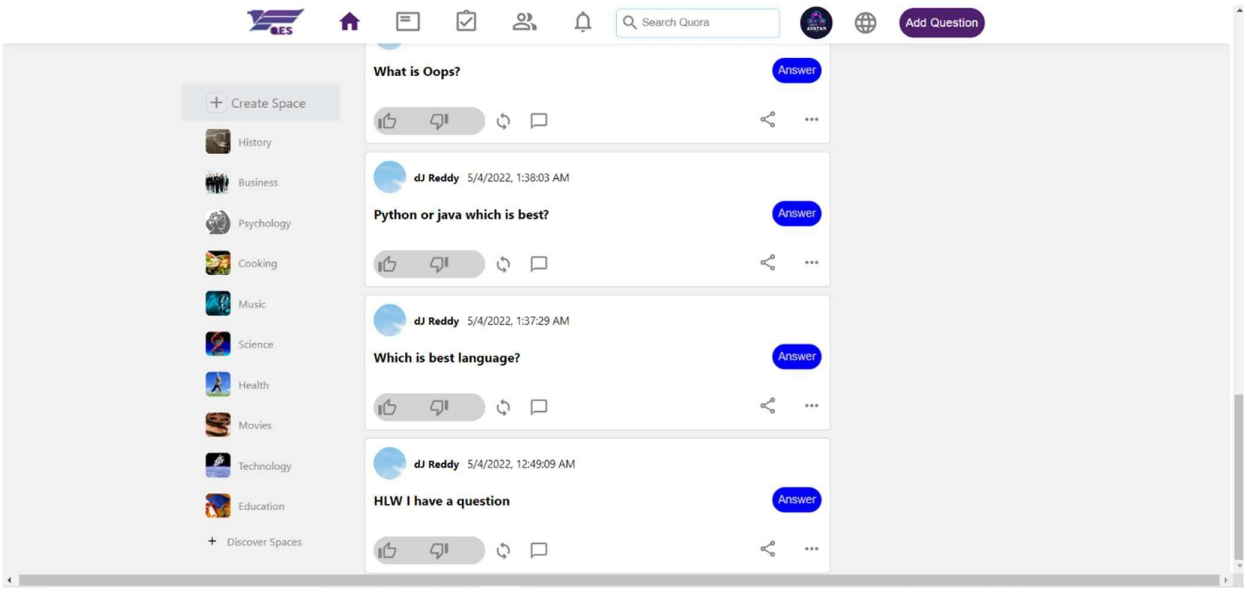


Figure 4.6.3 Home Page scrolled

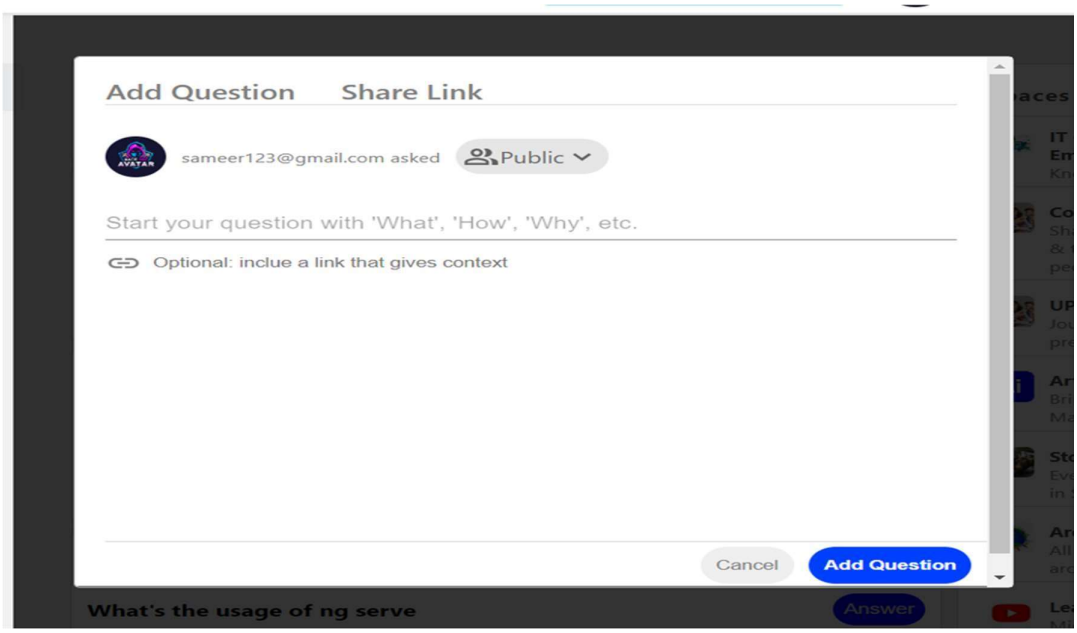


Figure 4.6.4 Adding a Question

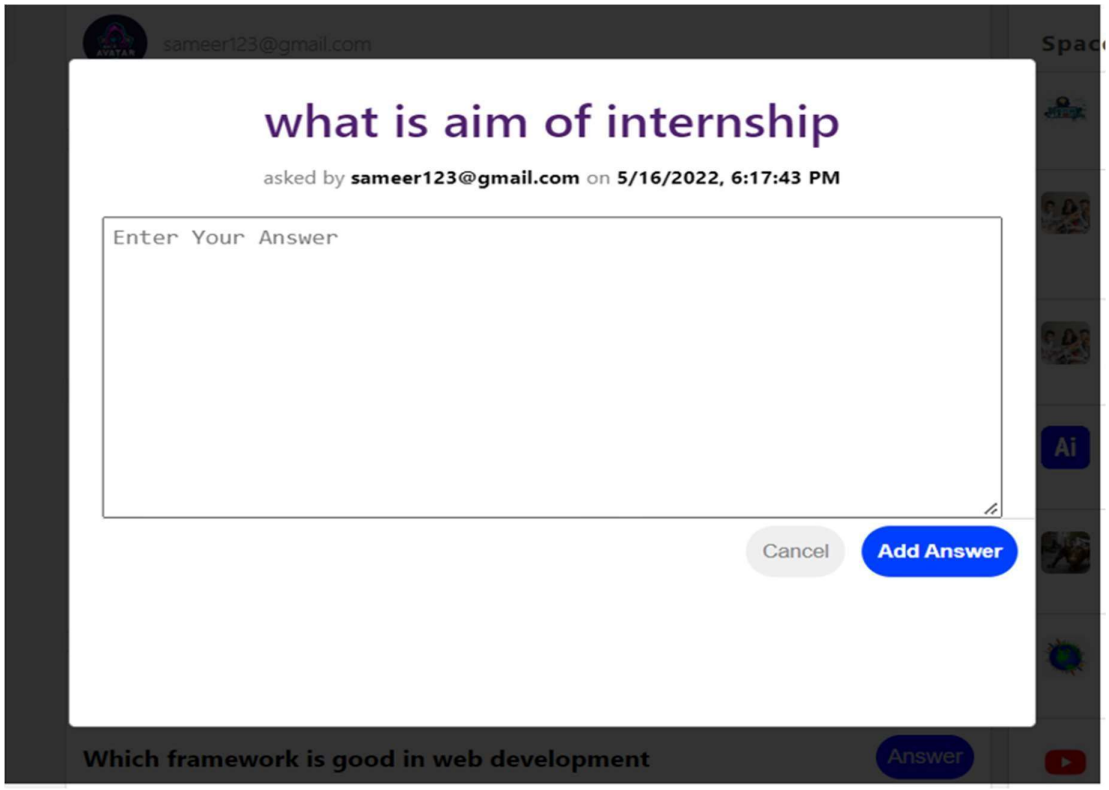


Figure 4.6.5 Replying with answer

CHAPTER – 5

CONCLUSION

In today's Web development, a good site design is essential. A bad design will lead to the loss of visitors and that can lead to a loss of business. In general, a good page layout has to satisfy the basic elements of a good page design. This includes color contrast, text organization, font selection, style of a page, page size, graphics used, and consistency. In order to create a well-designed website for a specific audience, the developer needs to organized and analyze the users' statistics and the background of the users. Although it can be hard to come up with a design that is well suited to all of the users, there will be a design that is appropriate for most of the audience. The better the page design, the more hits a website will get. That implies an increase in accessibility and a possible increase in business.

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- Gay, Greg et al. Professional Web Accessibility Auditing Made Easy, Ryerson University Pressbooks 2016.
- Gay, Greg et al. Web Accessibility for Developers, Ryerson University Pressbooks, 2019.
- **Websites:**
  - www.google.com
  - www.w3schools.com
  - www.youtube.com
  - www.freecode.com

APPENDIX

Appendix A: Abbreviation

IDE: An integrated development environment (IDE) is software for building applications that combines common developer tools into a single graphical user interface (GUI).

CSS: Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page.

HTML: HTML stands for Hyper Text Markup Language. It is used to design the frontend portion of web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. The markup language isused to define the text documentation within tag which defines the structure of web pages.

JavaScript: JavaScript is a famous scripting language used to create the magic on the sites to make the site interactive for the user. It is used to enhancing the functionality of a website to running cool games and web-based software