

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgavi-590 018, Karnataka, India



An Internship Report
On

"COLLEGE WEBSITE"

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

**BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING**

Submitted By
Sunil Kumar B
ISJ18CS106

Carried out at
Address
TEQUED LABS 3,
1st Main Rd, Ittamadu, Banashankari 3rd Stage, Bengaluru, Karnataka-560085

Under the guidance of

Internal Guide
Prof. Pradeep Kumar GM
Assistant Professor
Dept. Of CSE, SJGIT

External Guide
Mr. Nithin C Naik
Mentor & Trainer
Tequed Labs



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

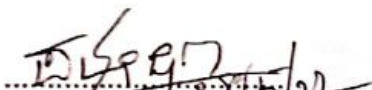
2021-2022

S.J.C INSTITUTE OF TECHNOLOGY, Chickballapur - 562101
Department of Computer Science and Engineering




CERTIFICATE


This is to certify that the Internship work entitled "**COLLEGE WEBSITE**" carried out by **SUNIL KUMAR B** bearing USN:1SJ18CS106 a bonafide student of Sri Jagadguru Chandrashekaranaatha 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 the academic requirements in respect of Internship work prescribed for the said Degree.


Signature of Guide

Prof. Pradeepkumar GM
Assistant Professor
Dept. of CSE, SJCIT




Signature of HOD

Dr. Manjunath Kumar B H
Professor & HOD,
Dept. of CSE, SJCIT

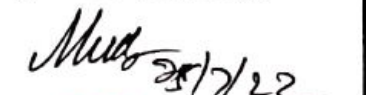
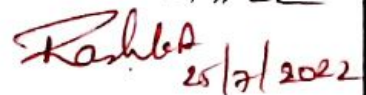

Signature of Principal

Dr. G T Raju
Principal, SJCIT,
Chickballapur

External Examiners:
Name of the Examiners

1. 
2. 

Signature with Date


25/7/22

25/7/2022

COMPANY CERTIFICATE



CERTIFICATE OF COMPLETION

This certifies that

SUNIL KUMAR B

has completed one month Internship on **Full Stack Web Development**
from 16th August to 15th September 2021 at Tequed Labs and has
worked on a Project Titled
"College Website"

USN: 1SJ18CS106

Institution Name: SJC Institute of Technology

Internship ID: TLS21A1026

Supreeth Y S, CEO

Aditya S K, CTO

DECLARATION

I, **SUNIL KUMAR B**, student of VIII semester B.E in Computer science & Engineering at S J C Institute of Technology, Chickballapur, hereby declare that the Internship work entitled "College Website" has been independently carried out by me under the supervision of **Prof. Pradeepkumar GM**, Assistant Professor, and the coordinator **Prof. Narendra Babu C**, Assistant Professor, 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: 13/05/2022

STUDENT NAME: SUNIL KUMAR B

USN: 1SJ18CS106

ABSTRACT

The project demonstrated here is the simple website for the college website. Website must be attractive initially and then the navigation must be very much proper. Here the proposed website is the more precise one. Website must contain meaningful and knowledgeable information that is belonging to the college. The proposed system is basically for the Academics and background, who wants to join the college or to get information about the college. Navigation is also proposed to a greater extent without any disturbance hence the website developed is the best one. The objective of this was to make it look attractive and able fetch the details of the college when a student visits the website.

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 Chandrashekaranaatha 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 C Institute of Technology, Chickballapur**, for her constant support and valuable guidance of the Internship Work.

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

I am thankful to Internship External Guide **Mr. Nithin C Naik, Mentor & Trainer, Tequed Labs, Bengaluru** for providing valuable guidance and encouragement of the Internship Work.

I also feel immense pleasure to express deep and profound gratitude to our Internship Coordinator **Prof, Narendra Babu, 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.

I also thank all those who extended their support and co-operation while bringing out this Internship Report.

Sunil Kumar B (1SJ18CS106)

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CHAPTER - 1

COMPANY PROFILE

1.1 History of the Organization

Tequed Labs Private Limited is a Private incorporated on 22 January 2018. It is classified as Non-govt Company and is registered at Registrar of Companies, Bangalore. Tequed Labs is a research and development center and educational institute based in Bangalore. They are focused on providing quality education on latest technologies and develop products which are of great need to the society. They also involve in distribution and sales of latest electronic innovation products developed all over the globe to their customers. They run a project consultancy where they undertake various projects from wide range of companies and assist them technically and build products and provide services to them. They are continuously involved in research about futuristic technologies and finding ways to simplify them for their clients.

1.1.1 Objectives

The major objectives of internship are:

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

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.

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

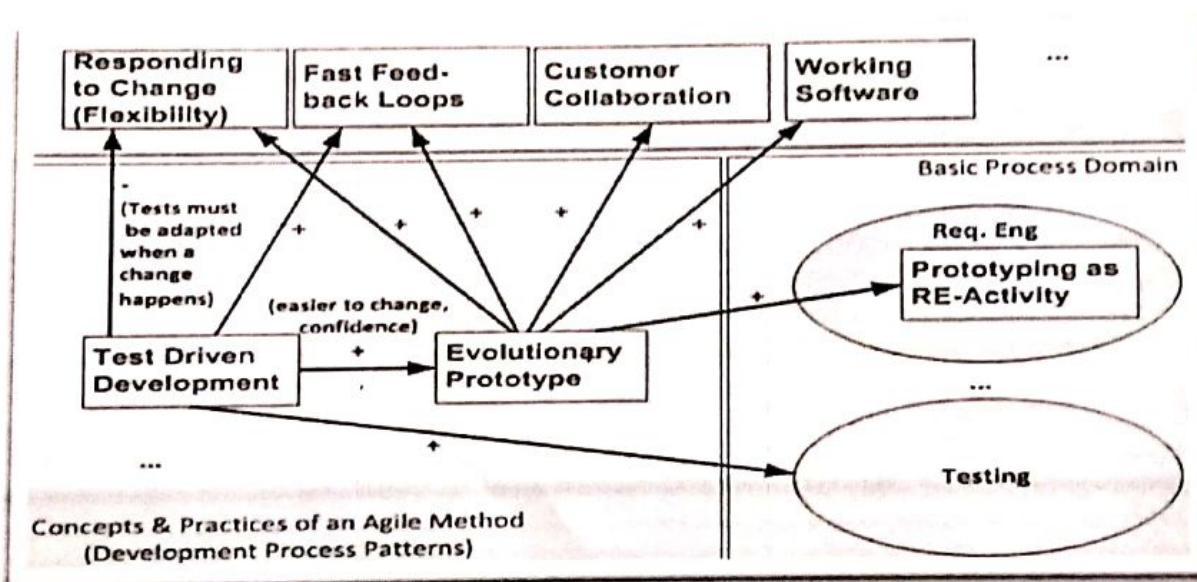


Figure 2.4.1 Structure of the Department

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.

CHAPTER – 3

TASK PERFORMED

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
- PHP
- SQL

In this project, I worked on the front end. I was responsible for implementing visual elements that users see and interact within a website. To develop new user-facing features and build reusable code and libraries for future use. To assure that all user input is validated before submitting to back-end and collaborate with other team members. Produce fully functional website. Gather specific requirements and suggest solutions. Design interfaces to improve user experience these are things on which I worked.

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, object-oriented, and first-class function. After the completion of frontend discussion, a simple project was developed called Web page for SJCT college using HTML, CSS, JavaScript.

BACKEND

The backend was consisted of the simple PHP and the SQL database to connect.

PHP

- PHP is an acronym for "PHP: Hypertext Preprocessor" PHP is a widely-used, open source scripting language PHP scripts are executed on the server.
- PHP is free to download and use.
- PHP files can contain text, HTML, CSS, JavaScript, and PHP code
- PHP code is executed on the server, and the result is returned to the browser as plain HTML
- PHP files have extension ".php"
- PHP can generate dynamic page content, open, read, write, delete, and close files on the server, can collect form data, can send and receive cookies, can add, delete, modify data in your database, can be used to control user-access, can encrypt data With PHP you are not limited to output HTML. You can output images, PDF files, and even Flash movies. You can also output any text, such as XHTML and XML.

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

CHAPTER – 4

REFLECTION NOTES

4.1 Experience

As per our experience during the internship, Tequed Labs follows a good work culture and it has friendly employees, starting from the staff level to the management level. The trainers are well versed in their fields and they treat everyone equally. There is no distinguishing between fresher graduates and corporates and everyone is respected equally. There is a lot of teamwork followed in every task, be it hard or easy and there is a very calm and friendly atmosphere maintained at all times. There is a lot of scope for self-improvement due to the great communication and support that can be found. Interns have been treated and taught well and all our doubts and concerns regarding the training or the companies have been properly answered. All in all, Knowledge Solutions India 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 organization.

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
- Tools used : Xampp, Visual studio code

4.3 System Analysis and Design

4.3.1 Existing System

The existing website was pretty good, but the information was not up to the mark. Website for an organization 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. Very detailed structured is preferred in the case of websites. The entire organization's performance will be viewed in the website.

4.3.2 Disadvantages of the Existing System

Information about the college was not clear, where people had no idea of all the services of a college.

- When we come to the subject of websites development the main thing to be focused on is the navigation, where the existing system was lagging.
- Costumers would really prefer some genuine feedbacks and hence the website must contain the testimonial section which was absent in this case.
- The next aspect is the communication media, which is very important. We have huge medias to connect and hence all the required connections are not enabled.

4.3.3 Proposed System

The proposed website is the best one while in comparison with the existing one. The information was up to the mark. Website for an organization is very important in all the aspects. First and foremost, it is attractive and navigation friendly. The information is very precise and knowledgeable. Very detailed structured is preferred in the case of websites. All the aspects are been met successfully.

4.3.4 Advantages of the Proposed System

Information about the company is very clear, where customers have complete view of all the services of a college.

- When we come to the subject of websites development the main thing to be focused on is the navigation, where the proposed system is perfect in this aspect.
- Costumers would really prefer some genuine feedbacks and hence the website must contain the testimonial section which is present in this case.

4.4 System Architecture

4.4.1 Data Flow Diagram

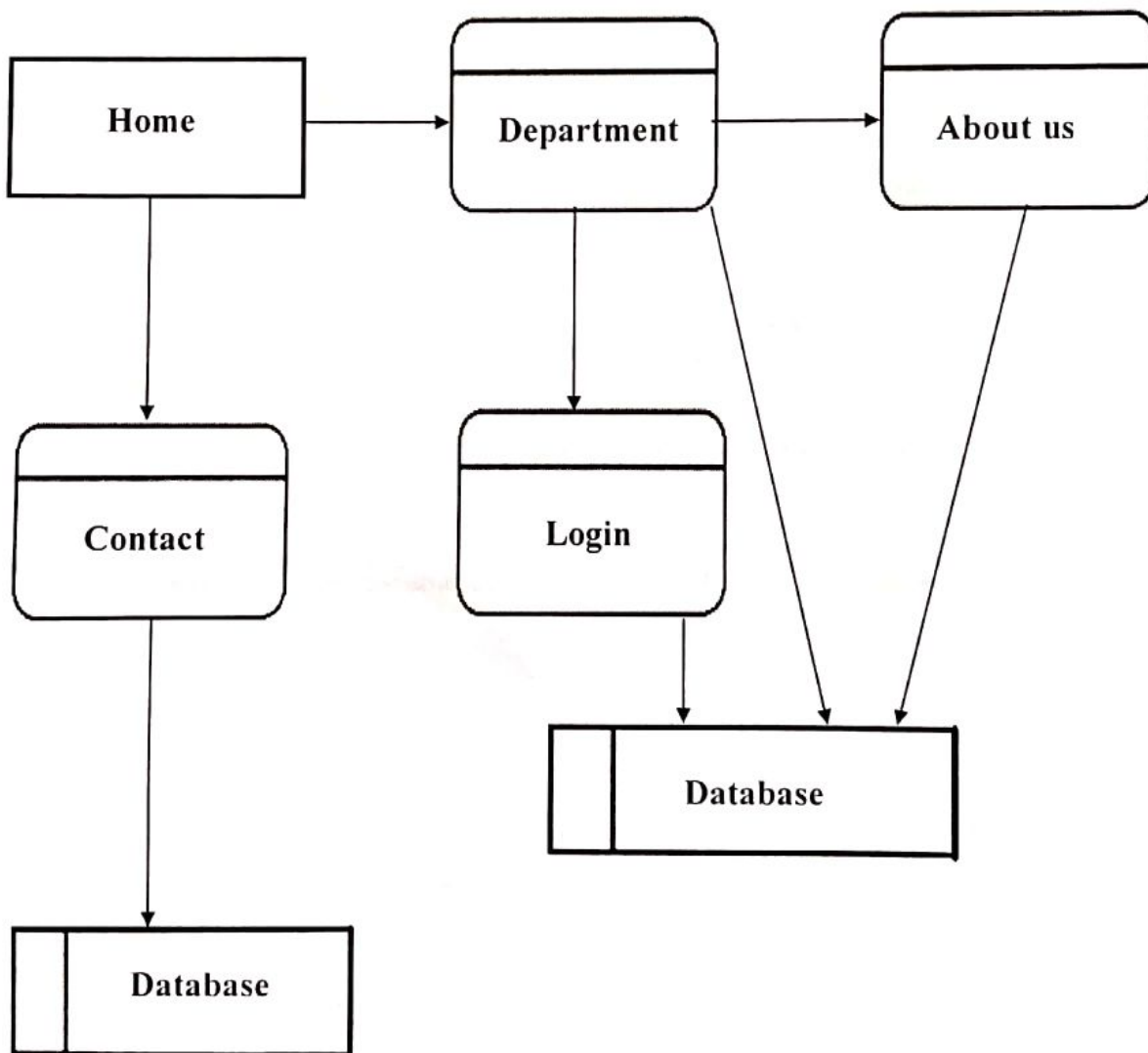


Figure 4.4.1.1 Data Flow Diagram

4.6 Screenshots

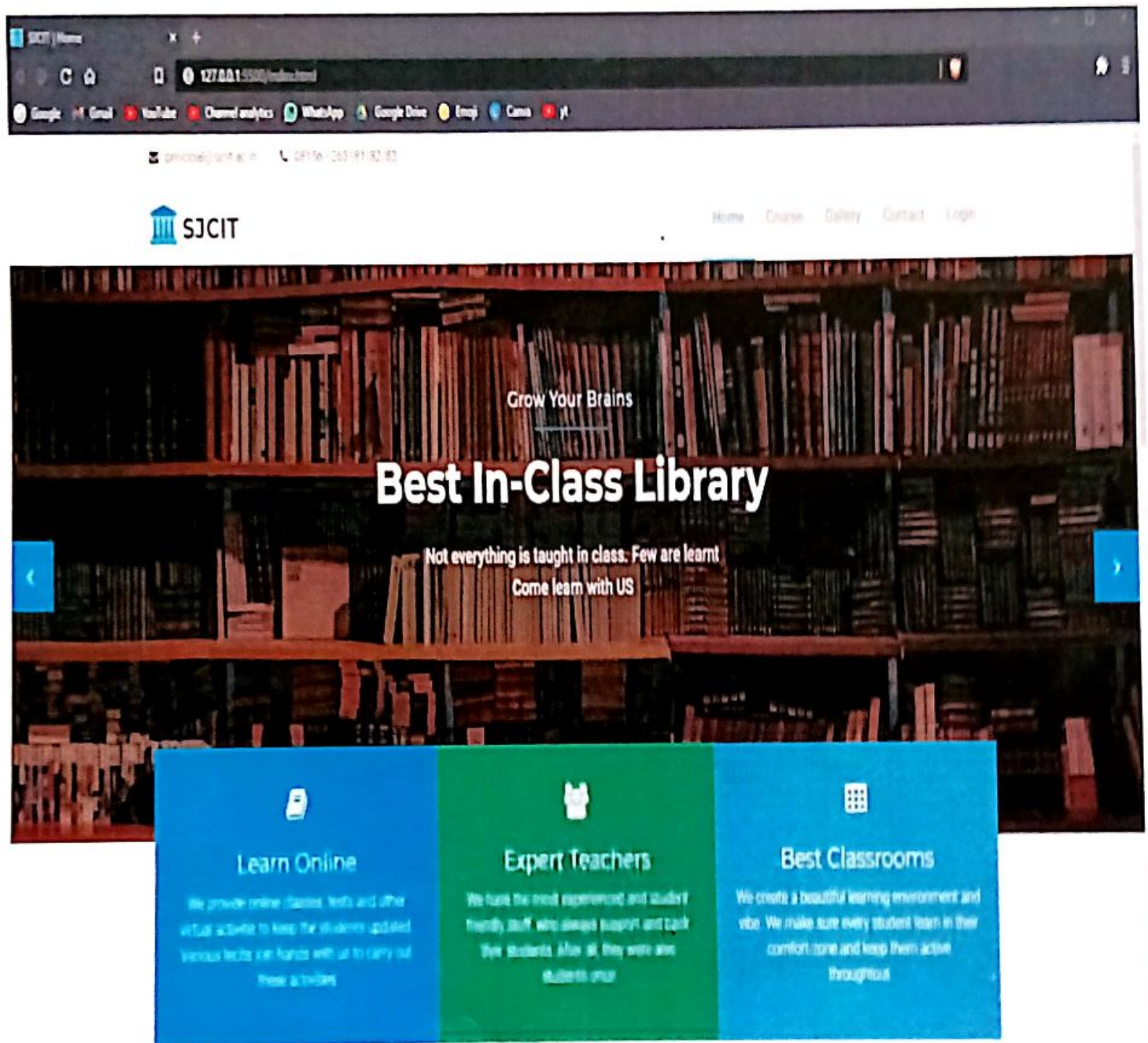


Figure 4.6.1 Home page

COURSES



Engineering

Engineering is the use of scientific principles to design and build machines, structures, and other items including bridges, tunnels, roads, vehicles, and buildings.

The term engineering is derived from the Latin adjective meaning "cleverness" and suggests "creating" or "constructing".

Various branches

- CSE
- ITSE
- ECE
- MBCH
- CIVIL
- AERO

Business Studies

Business studies is an academic subject taught in schools and at university level in many countries. Its study combines elements of accountancy, finance, marketing, organizational studies, human resource management, and operations.

Business studies is taught at the secondary level in India as an academic elective under the Central Board of Secondary Education. It covers management, marketing, and finance.



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Diploma

The Diploma in Engineering or Diploma in Technical Education is a program focused on practical and skills-oriented training. It is a technical course that only covers the essentials when ranked with an undergraduate engineering degree.

Its duration is minimum 3 years. Many countries in the world recognize it as equivalent to pre-engineering or bridging course when considered for continuing studies in engineering-related bachelors or associate degree programs. After successful completion of diploma in engineering course, students can either continue further engineering studies at undergraduate level or get employment as junior engineers, sub-engineers, associate engineers, technicians, technologists, super users, superintendents, foremen, machinist, workshop technicians, draughtman, station technicians, energy, thermal, aeronautical, automobile technicians, maintenance and service technicians, equipment mechanics and technicians, CAD/CAM programmers, agricultural engineers, structural technicians, junior instructors, manufacturing tool and die designers, electronics, etc.



Figure 4.6.2 Departments

ABOUT US

S. J. C. Institute of Technology in its full name Sri Jagadguru Chanderhasikaranatha Swamiji Institute of Technology is an Engineering college located in the city of Chickballapur, Chickballapur district, Karnataka, India, about 20 Kilometers from Bangalore International Airport.

Leading Features:

- Clean and Environment friendly campus
- Interactive and creative stuff
- Cultural activities
- Sports club
- R&D zone

A premier institute imparting technical education since 1989. The college is situated on Bangalore - Hyderabad National Highway No.11, 45 kms from Bangalore city, about 20 kms from Kempe Gowda International Airport (Bangalore International Airport) and about 5 kms from Mudterahalli, the birth place of Sri M. Vivekananda. The famous hill resort Hampi hill is about 15 kms from the college. The institute is managed by Sri Adichunchanagiri Shreehanu Trust, with the divine blessings of Bynarayana Jagadguru Padmatoshan Sri Sri Sri Dr. Balagangadharanatha Maha Swamiji, and spiritual guidance of Jagadguru Sri Sri Sri Dr. Nirmalanandanatha Maha Swamiji. The Trust runs more than 485 institutions all over the states of Karnataka, Maharashtra, Tamilnadu & Delhi. SJCIT is affiliated to Vigneshwara Technological University (VTU), Belgaum. The institution is recognized by the All India Council for Technical Education (AICTE), New Delhi. Accredited by NAAC and ISO 9001:2015 certified.



Figure 4.6.3 About us

Contact US

Get in touch

Name

Email

Subject

Message

Send Message

Contact us



Address: BB road,
Chickballapur - 562101



Phone: 08156-263181 / 82 /
83



Email: principal@sjcit.ac.in



Website
<https://www.sjcit.ac.in/>

Figure 4.6.4 Contact

CHAPTER – 5

CONCLUSION

I have learned various types of technologies required for theme, product and layout design. My main focus had been on front-end designing and also back-end development which leads to a Full Stack Web Development. With the help of this internship, I have gained significant amount of knowledge I hope it will be helpful for my future career. Making this project was sometime difficult but solving those difficulties gave very valuable knowledge. The team of Purano books had always helped me to sharpen my knowledge and to acquire new skills. Throughout my time of internship, I have acquired lots of new experiences. I got chances to use different development tools, research on them and use them. Overall, in this period of internship all my theoretical knowledge gained from college had gained a practical experience.

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APPENDIX

Appendix A: Abbreviation

AI: Artificial intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. The term may also be applied to any machine that exhibits traits associated with a human mind such as learning and problem-solving.

ML: Machine learning (ML) is a type of artificial intelligence (AI) that allows software applications to become more accurate at predicting outcomes without being explicitly programmed to do so. Machine learning algorithms use historical data as input to predict new output values.

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 is used to define the text documentation within tag which defines the structure of web pages.

JS: 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.