## AMC ENGINEERING COLLEGE
### BANGALORE-560083
### DEPARTEMENT OF COMUTER SCIENCE & ENGINEERING

### INDUSTRIAL VISIT REPORT:

## ICAT - DESIGN AND MEDIA COLLEGE

**IV Date:** 21st September 2019
**Place:** iCAT – Design and Media College, Bangalore
**Target (Semester)-** 7ᵗʰ Sem
**No. of Students:** 75
**Faculty Accompanied:** Dr. B J Doddegowda, Prof. Srividya V R, Prof D Mustaq
**Departure Time:** 9:30 AM
**Arrival Time:** 2PM

AMC Engineering College students went for Industrial Visit to **"ICAT- DESIGN AND MEDIA COLLEGE"** at Hosur Main Road, Bommanahalli, Bangalore, Karnataka on Friday, **21ˢᵗ September, 2019 at 10:30 AM** as per the schedule. Faculty members along with batch of 7th semester 'A', 'B' & 'C' section students (around 75 students).

### About the Company:

ICAT is the First Digital Media College in India which has obtained ISO 9001:2008 Certification. At ICAT, the prime objective is to provide excellent and comprehensive education in "Digital Media".ICAT is a part of IMAGE groups, a finest creative company that spreads creative intelligence in digital media to diverse audience, including college students, juvenile minds ready for employment and corporate employees.

ICAT is an **ISO 9001:2008 Certified Knowledge Powerhouse** that has been fueling the growth of Digital Media in India for the past 12 years. IMAGE Group is a pioneer in the field of Digital Media Education and has remained steadfast in its focus ever since its establishment in 2004.

IMAGE group launched India's first professionally managed Multimedia training institute, Image Creative Education in 1996. Image Creative Education has 40 Digital Media training centers in India. It has trained over 50,000 students till date and is the leader in South India in providing vocational training in Animation & Graphics.

### Outcome:

Students learnt about the concept of Animation, Game Design and Development, VFX, Logos, Posters, Motion Graphics, Visual Design, Multimedia Technologies used in Industries and Entertainment as mentioned below:

PRINCIPAL
AMC ENGINEERING COLLEGE
BENGALURU- 560 083.

- ANIMATION technique of creating visual illusion of movement, They showed us the animation movie called Spring in which we came to know how the characters are created and moved.

- GAME DESIGN AND DEVELOPMENT in which we learnt about the making of world famous game PUBG, they showed the graphical view and making of visuals to make game most user friendly and create gaming environment very efficiently.

- Students also learnt about the various LOGOS and hidden meanings behind the logo creations, some of the logos we came across are like famous brands of Amazon, Apple, FedEx, etc...

- VFX is used in the Film Industry to combine Computer Generated Imagery (CGI) with moving images from camera. They learnt about the making of famous scene of "Rana fighting with the bull" from the worldwide famous movie Bahubali, in which we learnt about the vfx creation where a dummy bull is placed instead of real and all background is used in Green colour through which the vfx is created.

- Students gained knowledge about Poster making in which the detailed description and idea is given to the viewers. For example posters like Life of Pie, Padmavaat etc. Also they came across various Advertisement posters with very deep meaning given to the viewers like Heinz tomato ketchup, in which the ketchup bottle is made with tomato slices.
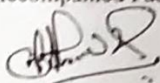
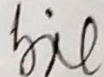| | | |
|---|---|---|
| Accompanied Faculty Signature | IV Coordinator | HOD |
| | Dr. Asha S Manek | Dr. Latha C A |

1)

2) V.R.Aivndhu.

3)

भारत संचार निगम लिमिटेड

(भारत सरकार का उपक्रम)

**BHARAT SANCHAR NIGAM LIMITED**

(A Govt. of India Enterprise)

Office of the Principal, Regional Telecom Training Centre,

मैसूर – 570 009. Mysore – 570 009.

**NO:.My RTTC/INDI VISIT/18-19/125**        dtd. 21.03.2019.

## CERTIFICATE

This is to certify that 48 students of VI Semester BE (ECE Dept.), AMC Engineering College, Bengaluru, have attended the Industrial visit along with four faculty members at **Regional Telecom Training Centre, Mysore** on the F/N of **21.03.2019** and visited the following laboratories.

1. *Broadband Lab*
2. *CDOT Lab*
3. *GSM Lab*
4. *Optical Fiber Lab*

**Faculty Members: S/S**

1. *Guruprasad U, Asst. Professor.*
2. *Vinay T, Asst. Professor.*
3. *Anita Patil, Asst. Professor.*
4. *Shalini M G, Asst. Professor.*

Encl: List of students

विभागीय अभियंता (दूरसंचार)
वि.एस.एन.एल., आर.टी.टी.सी., मैसूर-9
Divisional Engineer (TM)
BSNL, RTTC, MYSORE-570 009

# Name list of the VI Semester ECE Students of AMC Engineering college Visiting on 21-03-2019

## BSNL, Regional Telecom Training Centre - Mysuru

| Sl.No | USN | Name |
|---|---|---|
| 1 | 1AM15EC039 | GANGAMMA G S |
| 2 | 1AM16EC001 | ABHILASH M D |
| 3 | 1AM16EC004 | AKSHATHA |
| 4 | 1AM16EC011 | ANUSHA K J |
| 5 | 1AM16EC012 | ANUSHREE S |
| 6 | 1AM16EC017 | BESHANTH M |
| 7 | 1AM16EC018 | BHARATH B G |
| 8 | 1AM16EC019 | BHARGAVI P |
| 9 | 1AM16EC021 | BRINDA.R |
| 10 | 1AM16EC024 | CHANDINI R |
| 11 | 1AM16EC026 | DHANANJAYA |
| 12 | 1AM16EC029 | PRAJAPATHI |
| 13 | 1AM16EC031 | DIKSHIT GOUDA S |
| 14 | 1AM16EC032 | ESTHER |
| 15 | 1AM16EC033 | GUNASHREE M N |
| 16 | 1AM16EC034 | HARIHARAN A |
| 17 | 1AM16EC035 | HARSHITA K R |
| 18 | 1AM16EC036 | HARSHITHA B |
| 19 | 1AM16EC037 | HARSHITHA.C.S |
| 20 | 1AM16EC040 | HARSHITHA G S |
| 21 | 1AM16EC041 | HEMAVATHI K |
| 22 | 1AM16EC049 | HIMABINDHU B |
| 23 | 1AM16EC051 | KANYASHRI.S.S |
| 24 | 1AM16EC053 | KARTHIK S |
| 25 | 1AM16EC055 | LAKSHITHA.N |
| 26 | 1AM16EC057 | LATHA.R |
| 27 | 1AM16EC058 | MADAN M.B |
| 28 | 1AM16EC075 | MADHUKARA R S |
| 29 | 1AM16EC088 | MUSKAN MATHUR |
| 30 | 1AM16EC091 | POOJA S |
| 31 | 1AM16EC092 | PRAPTHI P JAIN |
| | | PRAVALLIKA P |

| 32 | 1AM16EC096 | RAKESH B |
|---|---|---|
| 33 | 1AM16EC097 | RAKESH S |
| 34 | 1AM16EC098 | RAKSHA SHANBHAG |
| 35 | 1AM16EC101 | RASHMI G K |
| 36 | 1AM16EC105 | RITHIKA K |
| 37 | 1AM16EC110 | SAFIYYAH SAMIULLA |
| 38 | 1AM16EC113 | SANGEETHA D |
| 39 | 1AM16EC115* | SHEMAZ RAZA |
| 40 | 1AM16EC118 | SHIREESHA S K |
| 41 | 1AM16EC120 | SHIVNATH |
| 42 | 1AM16EC123 | SHRUTHI V HEBBARE |
| 43 | 1AM16EC124 | SNEHA H P |
| 44 | 1AM16EC129 | SURESH M S |
| 45 | 1AM16EC133 | TEJASHREE M S |
| 46 | 1AM16EC135 | TENNETI MADHURI |
| 47 | 1AM16EC141 | VARSHA M |
| 48 | 1AM16EC145 | VIDISHA BAHT |

विभागीय अभियंता (प्रशिक्षण)
बि.एस.एन.एल., आर.टि.टि.सी., मैसूर-9
Divisional Engineer (TM)
BSNL, RTTC, MYSORE-570 009

## "INTERNSHIP REPORT"

*An Internship reportsubmitted in fulfillment of the requirements for the award of degree of*

### MASTER OF COMPUTER APPLICATIONS
### OF



### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

#### Submitted by

#### DEBPRIYA CHATTERJEE

#### (1AM18MCA54)



# AMC ENGINEERING COLLEGE

### Department of Master of Computer Applications

### 18th KM, Bannerghatta Road, Bengaluru-560083.

### Academic Year: 2019-20

## "INTERNSHIP REPORT"

*Internship report submitted in fulfillment of the requirements for the award of degree of*
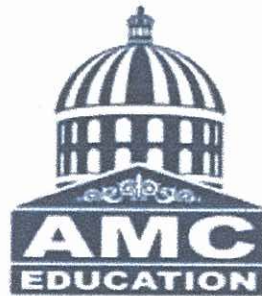
### MASTER OF COMPUTER APPLICATIONS
### OF



# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

**Submitted by:**

**DEBPRIYA CHATTERJEE**

**(1AM18MCA54)**

**Under the guidance of**

**INTERNAL GUIDE:**
Mr. RAJESH N,
Asst. Professor,
Department of MCA,
AMC Engineering College,
Bengaluru - 560083.

**EXTERNAL GUIDE:**
Keerthana S,
Senior Software Developer,
TechCiti Technologies Pvt. Ltd,
Bengaluru - 560078.



# AMC ENGINEERING COLLEGE

**Department of Master of Computer Applications**

18th KM, Bannerghatta Road, Bengaluru-560083.

**Academic Year: 2019-20**

# AMC ENGINEERING COLLEGE

## Department of Master of Computer Applications

### [Affiliated to Visvesvaraya Technological University, Belgaum]

18th KM, Bannerghatta Main Road,Bengaluru-83

Academic Year: 2019-2020

### CERTIFICATE

This is to certify that **Ms. DEBPRIYA CHATTERJEE (1AM18MCA54)** a student of 6th semester MCA has successfully completed 6 weeks of internship programme at **TechCiti Technologies Private Ltd,** in final semester as a partial fulfilment for the award of Master of Computer Applications degree, during the academic year 2019-2020.

**INTERNAL GUIDE**

Mr. RAJESH N,

Asst. Professor,

Department of MCA,

AMC Engineering College,

Bengaluru - 83.

**HEAD OF THE DEPARTMENT**

Dr.ACMV SRINIVAS,

Prof. & Head,

Department of MCA,

AMC Engineering College,

Bengaluru – 83.

Name of the Examiner

Signature with Date

1.

2.

**TECHCITI**
*Schooling · Consulting*

Ref.No.TTPL/2019-2020/HRD/INT1662
Date: 05th March, 2020

## TO WHOMSOEVER IT MAY CONCERN

We would like to inform you that Ms. **Debpriya Chatterjee** has successfully completed her internship with our company, she has been working from 21.12.2019 to 30.01.2020 as "Software Developer - Intern".

We have found her to be a self-starter who is motivated, duty-bound and hardworking. She has worked sincerely on her assignments and her performance is at par excellence.

We wish her all the best for her future endeavors.

Sincerely,

**Manager**
Human Resources Department
**TechCiti Technologies Private Limited.**

# DECLARATION

I, **DEBPRIYA CHATTERJEE** student of VI semester **MCA, AMC Engineering College,** bearing USN **1AM18MCA54**hereby declare that **INTERNSHIP** has been carried out by me under the supervision of internal guide **Mr. RAJESH N**and External guide**Keerthana S,** and submitted in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications by the Visvesvaraya Technological University, Belgavi during the academic year 2019-2020. This report has not been submitted to any other Organization / University for any award of degree or certificate.


**Name: DEBPRIYA CHATTERJEE**

**Signature:** Debpriya chatterjee.

# ACKNOWLEDGEMENT

Firstly, I thank god for helping me throughout this internship and strengthening me to complete this work successfully and at my best. I would like to dedicate this work to my parents for their constant support and encouragement during the course of this work.

The success of any task depends on many factors, with people being the most important. Several people have contributed directly and in-directly to the successful completion of this project. I express my gratitude and respect to all those who helped to steer the internship towards its completion and inspire us for the same.

I express my sincere thanks to *Dr. K PARAMAHAMSA* **Chairman, AMC Engineering College, Bangalore,** or providing all the resources required for the timely completion of this project.

I thank Dr**. A.G.NATATARAJ, Principal, AMCEC,** for his support to provide the best faculty and his guidance.

My deepest gratitude to our HOD **Dr.A.C.M.V SRINIVAS**, my internal guide **Mr. Rajesh N** and external guide **Keerthana** Sfor his guidance and encouragement given to me in this internship and report.

I also take this opportunity to thank *all faculty members of our MCA department* and *my friends* for their co-operation and support they have given me for the completion of this internship project.

**DEBPRIYA CHATTERJEE**

**(1AM18MCA54)**

# Table of Contents

## 1. COMAPANY PROFILE:

**TechCiti Technologies Private Limited.**

TechCiti is a vast comprehensive information technology services and solutions platform that digitally transforms business operations, enhances customer engagement and augments operational efficiency for its customers all over the world. TechCiti offers an integrated portfolio of products, solutions and services. It serves more than 1500 customers ranging from Fortune 500 companies to emerging start-ups. TechCiti Technologies has evolved as one of the leading Managed Service Provider (MSP's) in APAC region. TechCiti derives its strength from its strong leadership team focused on inspiring an environment of entrepreneurial culture seeped in delivering exceptional value to the customers.

The company network portfolio consists two companies "TechCiti Technologies Private Limited" and "TechCiti Software Consulting Private Limited ". TechCiti Technologies Private Limited being the parent company and TechCiti Software Consulting Private Limited being the deemed subsidiary of TechCiti Technologies Private Limited.

Through a well-defined development, support and quality framework, TechCiti consults companies on their technology roadmap and implements, supports and maintains business-critical applications and the underlying infrastructure. The company brings along in-depth expertise and robust experience in IT Infrastructure Management, Digital Experience Management, and Digital Networking, Automation solutions, Cloud services, performance management, Cloud Security Solutions, Global Network Software Solutions and application development.

Mission of TechCiti Pvt. Ltd:

* "Technology is boundless". Our vision is to enable people and organizations realize their potential reinventing their engagement in defining the future using -technology. Exploiting, developing and disseminating remarkable the experience, knowledge.

* Development of a distinctive competence in process project management.

- "To achieve the leading position as a distinguished & absolute end-to-end technological infrastructure & service provider.

**Trust:-**Among Our Employees, Vendors & Customers.

**Value of Money: -** Providing Need Based Cost Effective Solutions to Our customers.

TechCiti as managed service providers (MSP's) consults companies on their technology roadmap and implements, supports and maintains business-critical applications and the underlying infrastructure.

Managed Services –A managed service provider (MSP) is a company that remotely manages a customer's IT infrastructure and/or end-user systems, typically on a proactive basis and under a subscription model. We are MSP's for small and medium –sized business as well as large enterprises.

**Our managed services include:**

Infrastructure Management Services –IT infrastructure refers to the composite hardware, software, network resources and services required for the existence, operation and management of an enterprise IT environment. The back-end of an IT infrastructure can be split into three main elements: network, storage and computing.

TechCiti offers the invaluable and inventive choice of enlisting IT Infrastructure as a service — thus freeing enterprises from having to acquire their own IT infrastructure.

Data Centre Management Services:

Our managed data center services transform the businesses data center management, automation, and IT operations as they transition to a hybrid IT environment. We provide the right people, processes, security, and technology across on premise, cloud, and networks to optimize your cloud and IT infrastructure.

Managed Network Services-Managed Network Services provide proactive, highly automated operational management, and monitoring of multivendor, multi-technology enterprise networks

## 2. ABOUT THE COMPANY:

TechCiti Technologies Private Limited

BNR Complex, J.P.Nagar, BENGALORE – 560078,

Karnataka, India.

TechCiti Technologies Private Limited

TechCiti is a vast comprehensive information technology services and solutions platform that digitally transforms business operations, enhances customer engagement and augments operational efficiency for its customers all over the world. TechCiti offers an integrated portfolio of products, solutions and services. It serves more than 1500 customers ranging from Fortune 500 companies to emerging start-ups. TechCiti Technologies has evolved as one of the leading Managed Service Provider (MSP's) in APAC region. TechCiti derives its strength from its strong leadership team focused on inspiring an environment of entrepreneurial culture seeped in delivering exceptional value to the customers.

TechCiti Technologies private limited is associated with multiple high end application and intelligence solutions considering the global partners and the biz associates from the time. The desired requirements are made in perspective concerning with strategy, evaluation, appropriation etc.

We have provided the intelligence solutions from the large companies. Providing multi domain work perspective and understanding on a global workspace. Changing of environment with respect to the technology and perception we keep our self into scale on new heights considering achieving the proposition considering required and keep our self in the take care all our associates.

**Objectives of the organization:**

- To emerge as a global leader in the field of software solutions and services.
- To sustain a leadership position and gain market share in our existing product or service offerings and continuously upgrading them by adapting to new technologies.
- To continuously benchmark and partner with the global leaders to usher in futuristic products and services.
- To be a good corporate citizen by inculcating high degree of ethics in its business practices

**Strengths and Strategies**:

- A commitment to our core values has helped us build long – term, value centric relationship with customers.
- Continuously re-skilling, training and building the capabilities of our employees to be future-ready.

"Future proofing" your business by making the required business model changes and building innovative alliances within an ecosystem of strategic partners

**Our Vision**

Our vision is to enable people and organizations realize their potential reinventing their engagement in defining the future using - technology.

**Our Mission**

Our mission is to achieve the leading position as a distinguished & absolute end-to-end information technology infrastructure & service provider. We want to develop with profitable growth through superior Customer service, Innovation, Quality and Commitment.

**Our Products:** Our key products are:

☐Human Resource Management Software

☐Visitor Management Software

☐Sales Management Software

**Human Resource Management System:**

Our HRMS (Human Resource Management System) is a combination of systems and processes that

Connect human resource management and information technology through HR software. The function of the human resources department involves tracking employee histories, skills, abilities, salaries, and accomplishments. It is designed for Windows platform.

This ERP software is customizable as per the client's business size and needs. We have successfully built 3500+ loyal customers. This was our first product.

**Visitor Management Software:** Visitor Management Software designed to serve Enterprises, Startups. Lobby Guard provides end-to-end solutions designed for Windows. This online Visitor Management system offers Watch List, Visitor Tracking, ID Scan, Pre-Registration, and Registration Management at one place. We have 1500+ loyal customers for this product.

**Sales Management Software:** It is a cloud based sales management software. Eases routing and distributing the leads to ensure better conversion chances. It is a CRM software that helps enterprises to increase sales and revenues and maintain valuable and profitable relationships with leads, prospects and customers. The multichannel communications integrated CRM makes it easy to reach out to the lead instantly and engage in an appropriate way to push in to sales funnel. The Sales Management App allows businesses perform all tasks, from lead distribution to scheduling an interview, on the move from anywhere. Field sales automation also enables to track, monitor and communicate with the field sales team and sales pipeline management.

**Software development activities:**

**Planning:**

Planning is an objective of each and every activity, where we want to discover things that belong to the project. An important task in creating a software program is extracting the requirements or requirements analysis. Customers typically have an abstract idea of what they want as an end result, but do not know what software should do. Skilled and

experienced software engineers recognize incomplete, ambiguous, or even contradictory requirements at this point. Frequently demonstrating live code may help reduce the risk that the requirements are incorrect.

Once the general requirements are gathered from the client, an analysis of the scope of the development should be determined and clearly stated.

**Implementation, testing and documenting:**

Implementation is the part of the process where software engineers actually program the code for the project. Software testing is an integral and important phase of the software development process. This part of the process ensures that defects are recognized as soon as possible.

Documenting the internal design of software for the purpose of future maintenance and enhancement is done throughout development. This may also include the writing of an API, be it external or internal. The software engineering process chosen by the developing team will determine how much internal documentation (if any) is necessary. Plan-driven models (e.g. Waterfall) generally produce more documentation than agile models.

**Deployment and maintenance:**

Deployment starts directly after the code is appropriately tested, approved for release, and sold or otherwise distributed into a production environment. This may involve installation, customization (such as by setting parameters to the customer's values), testing, and possibly an extended period of evaluation. Software training and support is important, as software is only effective if it is used correctly maintaining and enhancing software to cope with newly discovered faults or requirements can take substantial time and effort, as missed requirements may force redesign of the software

### 3.Tools and technology:

- Html
- Css
- JavaScript
- Java
- J2EE
- JSP
- MySQL
- Eclipse

### 1. Html:

**Hypertext Markup Language (HTML)** is the standard markup language for creating web pages and web applications. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

- HTML stands for Hyper Text Markup Language
- HTML describes the structure of Web pages using markup
- HTML elements are the building blocks of HTML pages
- HTML elements are represented by tags
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
- Browsers do not display the HTML tags, but use them to render the content of the page

### 2. CSS:

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used, layout designs, and variations in display for different devices and screen sizes as well as a variety of other effects.

CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML.

**Advantages of CSS**

- **CSS saves time** – you can write CSS once and then reuse same sheet in multiple HTML pages. You can define a style for each HTML element and apply it to as many Web pages as you want.
- **Pages load faster** – If you are using CSS, you do not need to write HTML tag attributes every time. Just write one CSS rule of a tag and apply it to all the occurrences of that tag. So less code means faster download times.
- **Easy maintenance** – To make a global change, simply change the style, and all elements in all the web pages will be updated automatically.
- **Superior styles to HTML** – CSS has a much wider array of attributes than HTML, so you can give a far better look to your HTML page in comparison to HTML attributes.
- **Multiple Device Compatibility** – Style sheets allow content to be optimized for more than one type of device. By using the same HTML document, different versions of a website can be presented for handheld devices such as PDAs and cell phones or for printing.
- **Global web standards** – Now HTML attributes are being deprecated and it is being recommended to use CSS. So it's a good idea to start using CSS in all the HTML pages to make them compatible to future browsers.

## 3. JavaScript:

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

Defined a standard version of the core JavaScript language.

- JavaScript is a lightweight, interpreted programming language.
- Designed for creating network-centric applications.
- Complementary to and integrated with Java.
- Complementary to and integrated with HTML.
- **Open and cross-platform**

**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.

A JDK distribution

The Java Development Kit (JDK) is one of three core technology packages used in Java programming, along with the JVM (Java Virtual Machine) and the JRE (Java Runtime

Environment). It's important to differentiate between these three technologies, as well as understanding how they're connected:

1. The JVM is the Java platform component that executes programs.

- The JRE is the on-disk part of Java that creates the JVM.

- The JDK allows developers to create Java programs that can be executed and run by the JVM and JRE.

- Developers new to Java often confuse the Java Development Kit and the Java Runtime Environment. The distinction is that the JDK is a package of tools for developing Java-based software, whereas the JRE is a package of tools for running Java code.

The JRE can be used as a standalone component to simply run Java programs, but it's also part of the JDK. The JDK requires a JRE because running Java programs is part of developing them.

### IDEs for Java

**What is Java IDE?**

A Java IDE (for Integrated Development Environment) is a software application which enables users to more easily write and debug Java programs. Many IDEs provide features like syntax highlighting and code completion, which help the user to code more easily.

**Types of IDE we used**

**Eclipse**:

Eclipse is a Free and Open Source IDE, plus a developer tool framework that can be extended for a particular development need. IBM was behind its development, and it replaced IBM Visual Age tool. The idea was to create a standard look and feel that can be extended via plugins. The extensibility distinguishes Eclipse from other IDEs. Eclipse was also meant to compete with Microsoft Visual Studio tools. Microsoft tools give a standard way of developing code in the Microsoft world. Eclipse gives a similar standard way of developing code in the Java world, with a big success so far. With the online error checking only, coding can be sped up by at least 50% (coding does not include programming).

**NETBEANS:**

The NetBeans IDE is a Free and Open Source IDE for software developers. The IDE runs on many platforms including Windows, GNU/Linux, Solaris and Mac OS X. It is easy to install and use straight out of the box. You can easily create Java applications for mobile devices using Mobility Pack in NetBeans. With NetBeans 6.0, the IDE has become one of the most preferred development tools, whether it be designing a Swing UI, building a mobile application, an enterprise application or using it as a platform for creating your own IDE.

**6.**     **Cloud IDEs**: With so much of the traditional, desktop-based productivity software we know and love moving to the Cloud, it's no surprise that Cloud-based IDEs are quickly gaining ground with developers.

Nowadays, the browser is essentially a thin client that allows users to access a variety of Cloud-based applications and services. However, many are still hesitant to put their full faith in a

remote Cloud IDE for development purposes. Tools like GitHub helped to ease the transition to Cloud-based development, and full-fledged Cloud IDEs are now commonly used by many developers.

Here are 13 of the best Cloud IDEs you can get your hands on and a quick summation of each.

## JAVA

Java is a programming language and computing platform first released by Sun Microsystems in 1995. There are lots of applications and websites that will not work unless you have Java installed, and more are created every day. Java is fast, secure, and reliable. From laptops to data centers, game consoles to scientific supercomputers, cell phones to the Internet, Java is everywhere.

## J2EE

J2EE is a platform-independent, Java-centric environment from Sun for developing, building and deploying Web-based enterprise applications online. The J2EE platform consists of a set of services, APIs, and protocols that provide the functionality for developing multitier, Web-based applications.

## JSP:

Java Server Pages (JSP) is a Java standard technology that enables you to write dynamic, data-driven pages for your Java web applications. JSP is built on top of the Java Servlet specification. The two technologies typically work together, especially in older Java web applications. From a

coding perspective, the most obvious difference between them is that with servlets you write Java code and then embed client-side markup (like HTML) into that code, whereas with JSP you start with the client-side script or markup, then embed JSP tags to connect your page to the Java backend.

## MYSQL:

MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons −

MySQL is released under an open-source license. So you have nothing to pay to use it.

MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.

MySQL uses a standard form of the well-known SQL data language.

MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.

MySQL works very quickly and works well even with large data sets.

MySQL is very friendly to PHP, the most appreciated language for web development.

MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system can handle it) to a theoretical limit of 8 million terabytes (TB).

MySQL is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments.

## 4. HARDWARE AND SOFTWARE COMPONENTS:

### Hardware Components:

- Processor  : i3 Processor and above
- Hard disk  : 500 GB or above
- Speed        : 1.1 GHz or above
- RAM          : 2GB or above

### Software components:
- Operating System        : Windows 7
- Server                          : Tomcat
- Database                     : MySQL
- Programming Language: Java

## 5. REFLECTION:

EXPERIENCE GAINED DURING THE INTERNSHIP PERIOD

It has been a while since I started at the internship and I am really glad I decided to work here.

I think the experience in learning technologies is a good preview of my career and future. .

Front-end languages worked on are HTML, CSS, and JavaScript etc.

Skills that I have gained from the internship Learnt front-end designing part and database connectivity.

I had a good communication with company employers.

As an intern, I will likely collaborate with other interns and company employers.

Tried to challenge myself by doing something which I have never done before.

### Knowledge gained during internship:

New and improved skills and how to apply them

• One of the most important things you can gain from an internship is newfound knowledge. This can include knowing how to fulfil tasks that are relevant to your desired career path and sharpening the skills that you already possess.

During my time as an intern I was able to independently implement codes while learning from the experiences and expertise of the staff. Not only did they want me to work on my own to grow professionally, but they wanted me to succeed and learn as well.

Working in the office gave me valuable and transferable experience such as making spreadsheets, a. These skills will be useful in almost every future internship or job. While useful, these skills were not all that I gained from the internship. I learned how to connect with others who share the common interest of helping people. This internship helped to remind me of and see how much good there is in the world

## 6.  CONCLUSION

It was a great experience. It increases our practical skills that's the main thing which we learnt in the training session. In review this internship has been an excellent and rewarding experience.  I have been able to meet and network with so many people that I am sure will be able to help me with opportunities in the future.  This internship focused upon increasing our knowledge and interest in toward the Java. Because Java is most interesting and most used language in these days. We learnt how to create a web sites and web pages. Thus, we believe that our project will be beneficial for various purposes & hence our efforts will be fruitful.

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