

A
Summer Internship Report
On
"Java Development"

(IT346 – Summer Internship - I)

Prepared by
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Under the Supervision of
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Submitted to
Charotar University of Science & Technology (CHARUSAT)
for the Partial Fulfillment of the Requirements for the
Degree of Bachelor of Technology (B.Tech.)
for Semester 5

Submitted at



SMT. KUNDANBEN DINSHA PATEL DEPARTMENT OF
INFORMATION TECHNOLOGY
Chandubhai S. Patel Institute of Technology (CSPIT)
Faculty of Technology & Engineering (FTE), CHARUSAT
At: Changa, Dist: Anand, Pin: 388421.
July, 2022



Accredited with Grade A+ by NAAC
Accredited with Grade A by KCG

CERTIFICATE

This is to certify that the report entitled "**Java Development**" is a bonafied work carried out by **Mr. Ishan Kansara (D21IT176)** under the guidance and supervision of **Dr.Purvi Prajapati/ Mr. Urval Shah** for the subject **Summer Internship – I (IT346)** of 5th Semester of Bachelor of Technology in **Department of Information Technology** at Chandubhai S. Patel Institute of Technology (CSPIT), Faculty of Technology & Engineering – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred by the examiner(s).

Under the supervision of,

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AARK INFOSOFT
PRIVATE LIMITED
An ISO 9001 : 2008 Certified Company

Date 28th June, 2022

To,

Ishan Kansara

G.R NO.:D21IT176

Subject: Internship Completion Certificate

To whom it may concern,

Aark Infosoft Pvt Ltd certifies that Mr. Ishan Kansara successfully completed the internship program from 18th May 2022 to 19th June, 2022 at our headquarters Ahmedabad, Gujarat.

During this time, He has worked in Java Technology.

He has worked on our project of **Online Cab Services** and **CMS system** he has done designing and some database related tasks.

Mr. Ishan Kansara displayed professional traits during his internship period and managed to complete all assigned tasks as requested. He was hardworking, dedicated, and committed. It was a pleasure having her with us in this period.

Best Regards,



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Consistency with Excellence

ACKNOWLEDGEMENT

I, the developer of “Aark Infosoft Privated Limited” with immense pleasure and commitment would like to present the internship report. The development of the project has given me wide opportunity to think, implement and interact with various aspects of management skills as well as the new emerging technologies.

Every work that one completes successfully stands on the constant encouragement, good will and support of the people around. I hereby avail this opportunity to express my gratitude to number of people who extended their valuable time, full support and cooperation in developing the project.

I express deep sense of gratitude towards our Head of the IT Department, Dr. Parth Shah, project guide Dr.Purvi Prajapati and external guide Mr. Urval Shah Sir for the support during the whole session of study and development. It is because of them, that I was prompted to do hard work, adopting new technologies.

Thanks,

Ishan Kansara(D21IT176)

ABSTRACT

In this Report, we present design and implementation of the project “Employee registration Page”. Employee registration page is commonly use in every company, so it is basic requirement for every company to have this page in their website. We have implemented this with frontend as well as backend. Objective of this project is to give real-time registration experience to people on computer devices.

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AIPL is a combination of tech expertise and business intelligence to serve our clients scalable IT Services and solutions. We have team of expert analyzer, system analysts who dig out the requirements, business needs, identify priorities and problems to make best execution process and deliver results. With a prime focus on user experience, our proficiency extends beyond the mobile, web, service integration, and strategy.

Company Description

Aark Infosoft passionate for technology

AIPL is a combination of tech expertise and business intelligence to serve our clients scalable IT Services and solutions. We have team of expert analyzer, system analysts who dig out the requirements, business needs, identify priorities and problems to make best execution process and deliver results. With a prime focus on user experience, our proficiency extends beyond the mobile, web, service integration, and strategy.

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E. GOVERNANCE

E-Governance Arrangements At AIPL, You can Satisfy the interest of Public Administration and smoothout.

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Our engineers give master web application advancement and software applications to our customer

MOBILE APPS

Mobile application advancement is undoubtedly these days fundamental for all business.we make

HIRE-RESOURCE

Hiring Resources you can count on, and we are built on your success, delivering quality is our mission.

DIGITIZATION

Our Document Digitization Administrations work on the nature of archive the board, including precise.

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CHAPTER 1: INTRODUCTION

1.1 INTERNSHIP OBJECTIVE

This intership provided us essential skills and knowledge one requires in the filed of java development. Main objective of the java development is to understanding the principles of creating an effective web page, including an in-depth consideration of information architecture. It helped me to improve my communication skills by interacting with my training instructor.

1.2 DEFINITION

This project is about company employee registration form. In this form, emplyoeer has to fill his details which is required by company. This form contains user validation in which if the emplyoeer entered wrong email or name or pincode than he will not allowed to entered to next page. And if he entered right details than a success dialog box will appeared and data will be stored in database in user table.

CHAPTER 2: Tools and Technologies

2.1 TOOLS

2.1.1 Apache NetBeans IDE

NetBeans IDE is a free and open-source integrated development environment for application development on Windows, Mac, Linux, and Solaris operating systems. The IDE simplifies the development of web, enterprise, desktop, and mobile applications that use the Java and HTML5 platforms. The IDE also offers support for the development of PHP and C/C++ applications.

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2.1.2 JDK (Java Development Kit) 17

The Java Development Kit (JDK) is a cross-platformed software development environment that offers a collection of tools and libraries necessary for developing java-based software applications and applets. It is a core package used in Java, along with the JVM (Java Virtual Machine) and the JRE (Java Runtime Environment).

2.1.3 MySql 8

MySQL, the most popular Open-Source SQL database management system, is developed, distributed, and supported by Oracle Corporation. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. MySQL is integral to many of the most popular software stacks for building and maintaining everything from customer-facing web applications to powerful, data-driven B2B services.

2.1.4 Apache Tomcat Server

It is an open-source Java servlet container that implements many Java Enterprise Specs such as the Websites API, Java-Server Pages and last but not least, the Java Servlet. It is a popular choice for web developers building and maintaining dynamic websites and applications based on the Java software platform.

2.2 TECHNOLOGIES

2.2.1 HTML AND CSS

HTML (the Hypertext Markup Language) and CSS (Cascading Style Sheets) are two of the core technologies for building Web pages. HTML provides the *structure* of the page, CSS the (visual and aural) *layout*, for a variety of devices. Along with graphics and scripting, HTML and CSS are the basis of building Web pages and Web Applications.

In this project, HTML is used to prepare structure of web page and CSS is used to add colors, layouts, and fonts.

2.2.2 Bootstrap

Bootstrap is a potent front-end framework used to create modern websites and web apps. It's open-source and free to use, yet features numerous HTML and CSS templates for UI interface elements such as buttons and forms. Bootstrap also supports JavaScript extensions.

In this project bootstrap is used to provide user validation and form input layout.

2.2.3 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.

In this project javascript is used to allow client side validation of email, pincode, name etc.

2.2.4 JSP (Java Server Pages)

JSP stands for Java Server Pages. These files have the extension .jsp. The main advantage of JSP is that the programmer can insert Java code inside HTML. There are JSP tags to insert Java code. The programmer can write the tag at the end of the Java code. When a page is dynamic, it continually updates the knowledge, at an equivalent time the online page is being showed the client.

2.3 HARDWARE REQUIREMENTS

- Intel i5 11th Gen Processor
- 8 GB RAM.
- 516 GB SSD.
- O.S. – Windows 10

2.4 SOFTWARE REQUIREMENTS

- Operating System: Windows 10
- Programming language: JAVA
- Software: Apache Netbeans
- Front-End: HTML, CSS, JavaScript, BootStrap
- Back-End: JSP, Apache Tomcat Server, MySql Database

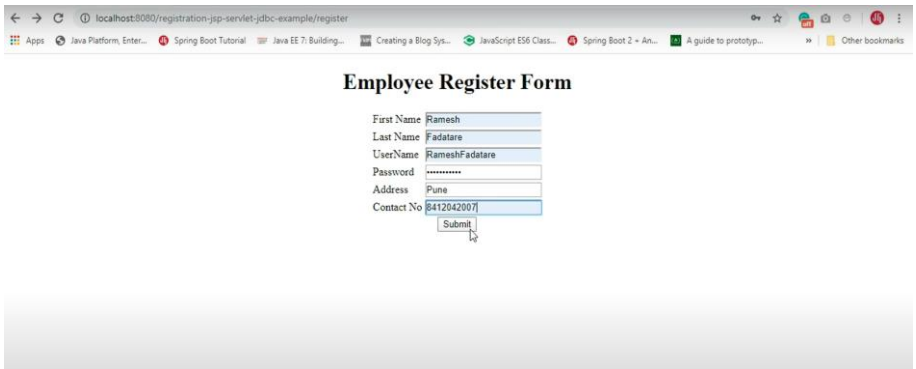
CHAPTER 3: TASK DESCRIPTIONS

3.1 Weekly Task

	Date	Day	Name of Topic/Module
Week 1	18/05/2022	Wednesday	Introduction of Company and Internship plan
	19/05/2022	Thursday	Tools Installation guidance We install tools in our PC
	20/05/2022	Friday	Explore all the tools and its usages.
	21/05/2022	Saturday	Learn about different tags like meta, container, title, script, link etc.
	23/05/2022	Monday	Concept of table tag and various attributes of table tag and do task on it.
	24/05/2022	Tuesday	Concept of form tag and created on responsive form.
Week 2	25/05/2022	Wednesday	Learn about how to inset image, video, and audio and different attributes of that tag.
	26/05/2022	Thursday	Introduction about CSS, class, id and purposes. Concept of Different CSS property, background font-family, border, outline
	27/05/2022	Friday	Concept of CSS colors, padding margin, box-shadow, cursor, float, learn about how to inspect any webpage
	28/05/2022	Saturday	Concept of CSS property text-transform decoration, fa-fa- icon, span tag, position, overflow.
	30/05/2022	Monday	Started designing webpage
	31/05/2022	Tuesday	Started creating structure of webpage using HTML.
Week 3	01/06/2022	Wednesday	creating structure of webpage using HTML continue.
	02/06/2022	Thursday	Started implementing CSS.
	03/06/2022	Friday	Implementing margin, padding according to design.
	04/06/2022	Saturday	Implementing bootstrap.
	06/06/2022	Monday	Implementing form validation using bootstrap.
	07/06/2022	Tuesday	Implementing javascript for form validation.
Week 4	08/06/2022	Wednesday	Learning JDBC and implementing JDBC to the project
	09/06/2022	Thursday	Learning how to add database to webpage and creating database for form.
	10/06/2022	Friday	Implementing java class to take information from webpage and adding data to database.
	11/06/2022	Saturday	Checking whether data is successfully uploading or not.

Week 4	13/06/2022	Monday	Adding success message to webpage if data is successfully uploaded.
	15/06/2022	Wednesday	Checking whether data is successfully uploading or not.
	16/06/2022	Thursday	Adding success message to webpage if data is successfully uploaded.
	17/06/2022	Friday	Adding Sweet alert animation using bootstrap.
	18/06/2022	Saturday	Taking overview of whole project.

3.2 Task 1

Task	
Task Description	Every company website requires employee registration page. So our task is to implement responsive registration page that can validate user information at client-side.
Trigger	Onclick Submit
Basic Path	<ol style="list-style-type: none"> 1. Enter First name and last name 2. Enter username 3. Enter address 4. Enter password 5. Enter address 6. Enter contact:No
Post Condition	Submit successfully or Invalid information
Output Screenshots	

CHAPTER 4: LEARNING EXPERIENCES

4.1 Knowledge Acquired/Skills Learnt

During my internship, I learned how to communicate and build relationships with the people I worked with. I learned how to introduce myself, talk about my interests, knowledge and skills with entrepreneurs and business owners, as well as how to ask questions and gain a better understanding of businesses not only in the co-working space, but also others in the market.

Communication is the key to success in a professional environment. I learned that it's important to communicate with my manager via phone, email or SMS if I have questions or if I don't know how to work on a task. Asking for help and clarification is better than pretending you've understood what you need to do, no matter what.

Asking for and receiving professional feedback is very important. It is essential to take note of both the positive and negative points for the future, so you can grow and excel in your career. I learned that sometimes asking for feedback or receiving feedback is difficult to hear, but it will have a significant impact on your future career and success.

CHAPTER -5 Conclusion

In a nutshell, this internship has been an excellent and rewarding experience. I can conclude that there have been a lot I've learnt from my work at Aark Infosoft. Needless to say, the technical aspects of the work I've done are not flawless and could be improved provided enough time. As someone with no prior experience with JDBC whatsoever I believe my time spent in research and discovering it was well worth it and contributed to finding an acceptable solution to build a fully functional web service. Two main things that I've learned the importance of are time-management skills and self-motivation.

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