SHORT-TERM INTERNSHIP REPORT

ON

" Full Stack Java "

Submitted in partial ful fillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Name of the student: KONDAPALLI SAIKUMAR   Register number: 21F21A0587

Under the esteemed guidance of

Mentor name

Dr . B. Krishnaveni M. Tech.

Associate Professor

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GATES INSTITUTE OF TECHNOLOGY

(Approved byA.I.C.T.E,NewDelhi &Affiliated to JNTUA & Accredited by NAAC)

N.H-44,Gooty anantapuramu(V),Anantapuramu (Dist.), Gooty-515401,A.P

Program Book | Short Term Internship

AP STATE COUNCIL OF HIGHER EDUCATION
(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

Program Book for Short-Term Internship

Name of the Student   :   KONDAPALLI SAIKUMAR

Name of the College   :   GATES Institute Of Technology

Registration Number   :   21F21A0587

Period of Internship   :   8 Weeks (**From:** 13/05/2024 **To:**06/07/2024)

Name & Address of the Intern Organization : SkillDzire & 04th Floor, Bizness Square, opp:Hitex

Junction, HITEC City, Hyderabad,

Telangana 500081 .

Instructions to Students

Please read the detailed Guidelines on Internship hosted on the website of AP State Council of Higher Education https://apsche.ap.gov.in

1. It is mandatory for all the students to complete 2 months (180 hours) of short- term internship either physically or virtually.

2. Every student should identify the organization for internship in consultation with the College Principal/the authorized person nominated by the Principal.

3. Report to the intern organization as per the schedule given by the College. You must make your own arrangements of transportation to reach the organization.

4. You should maintain punctuality in attending the internship. Daily attendance is compulsory.

5. You are expected to learn about the organization, policies, procedures, and processes by interacting with the persons working in the organization and by consulting the supervisor attached to the interns.

6. While you are attending the internship, follow the rules and regulations of the intern organization.

7. While in the intern organization, always wear your College Identity Card.

8. If your College has a prescribed dress as uniform, wear the uniform daily, as you attend to your assigned duties.

9. You will be assigned with a Faculty Guide from your College. He/She will be creating a WhatsApp group with your fellow interns. Post your daily activity done and/or any difficulty you encounter during the internship.

10. Identify five or more learning objectives in consultation with your Faculty Guide. These learning objectives can address:

    •   Data and Information you are expected to collect about the organization and/or industry.

    •   Job Skills you are expected to acquire.

    •   Development of professional competencies that lead to future career success.

11. Practice professional communication skills with team members, co-interns and your supervisor. This includes expressing thoughts and ideas effectively through oral, written, and non-verbal communication, and utilizing listening skills.

12. Be aware of the communication culture in your work environment. Follow up and communicate regularly with your supervisor to provide updates on your progress with work assignments.

13. Never be hesitant to ask questions to make sure you fully understand what you need to do your work and to contribute to the organization.

14. Be regular in filling up your Program Book. It shall be filled up in your own handwriting. Add additional sheets wherever necessary.

15. At the end of internship you shall be evaluated by your Supervisor of the intern organization.

16. There shall also be evaluation at the end of the internship by the Faculty Guide and the Principal.

17. Do not meddle with the instruments/equipment you work with.

18. Ensure that you do not cause any disturbance to the regular activities of the intern organization.

19. Be cordial but not too intimate with the employees of the intern organization and your fellow interns.

20. You should understand that during internship programme, you are the ambassador of your College, and your behavior during the internship programme is of utmost importance.

21. If you are involved in any discipline related issues, you will be withdrawn from the internship programme immediately and disciplinary action shall be initiated.

22. Do not forget to keep up your family pride and prestige of your College.

An Internship Report
On
(Full Stack Java)

Submitted in accordance with the requirement for the degree of…B.Tech…

Name of the Student   :   KONDAPALLI SAIKUMAR

Programme of Study Year of Study :   III B. Tech-II SEM

Register Number   :   21F21A0587

Name of the College   :   GATES Institute of Technology

Department   :   Computer Science and Engineering

Name of the Faculty Guide   :   Dr. B. Krishnaveni

Duration of the Internship   :   (8 Weeks) From: 13/05/2024 To:06/07/2024

Date of Submission   :

Student's Declaration

I am **KONDAPALLI SAIKUMAR** a student of B. Tech Program, Reg. No. **21F21A0587** of the Department of Computer Science and Engineering. College do hereby declare that I have completed the Short-Term Mandatory Internship from **13-05-2024** to **06-07-2024** in **Full Stack Java** at **SkillDzire Academy** under the Faculty Guideship of **Dr. B. KRISHNAVENI** Department of Computer science and Engineering, GATES Institute of Technology.

(Signature and Date)

Endorsements

Faculty Guide:

Head of the Department:

Principal:

Certificate from Intern Organization

This is to certify that **KONDAPALLI SAIKUMAR**, Reg .No: **21F21A0587** of   GATES Institute of Technology. College underwent Short Term mandatory Internship in Java Full Stack Development, SkillDzire   Academy from 13-052024 to 06-07-2024. The overall performance of the intern during his/her internship is found to be…………… (Satisfactory/Not Satisfactory).

Authorized Signatory with Date and Seal

Internship Completion Certificate

S SkillDzire

CERTIFICATE OF INTERNSHIP

This is to Certify that Mr./Ms

Kondapalli Saikumar

Enrolled in the **Computer Science and Engineering - 21F21A0587**

From College **Gates Institute Of Technology**

of university **JNTUA, Anantapur**

has Successfully Completed short-term Internship programme titled

Full Stack Java

under SkillDzire for 2 Months.Organized By **SkillDzire** in collaboration with **Andhra Pradesh State Council of Higher Education**.

Certificate ID:
SDST-32044

Issued On:
1-Jul-2024

Approved By AICTE

Authorized Signature

ACKNOWLEDGEMENTS

CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have only a one-page executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

Summary:

Java full-stack web development refers to the process of creating dynamic web applications using Java technology for both the frontend and backend. It involves utilizing a combination of programming languages, frameworks, and tools to build robust, scalable, and interactive web applications. Here is a summary of the key components and concepts involved in Java full-stack web development.

- Frontend Development: For the frontend, developers typically use HTML, CSS, and JavaScript to create the user interface (UI) and handle client-side interactions. Popular JavaScript frameworks such as React, can be employed to simplify frontend development and enhance user experience.

- Backend Development: Java is commonly used for backend development due to its robustness, scalability, and extensive ecosystem. Developers use frameworks like Spring Boot (JSF), server-side logic, data processing, and communication with databases.

- Database Management: Java full-stack developers work with relational databases like MySQL, Oracle, or PostgreSQL to store and retrieve data JPA (Java Persistence API) to simplify database interactions.

- RESTful APIs: Representational State Transfer (REST) is a popular architectural style used to create APIs that allow communication between the frontend and backend. Java developers utilize frameworks like Spring MVC or JAX-RS to build RESTful APIs, enabling data exchange in JSON or XML formats.

- Server-Side Technologies: Java full-stack development involves deploying applications on server environments.

Learning outcomes:

- Proficiency in Java: Gain a strong understanding of the Java programming language, including its syntax, object-oriented concepts, data structures, and core libraries.

- Frontend Development: Acquire the skills to create interactive and responsive user interfaces using HTML, CSS, and JavaScript. Familiarize yourself with frontend frameworks like React to build modern web applications.

- Master Java fundamentals, object-oriented programming, data structures, and algorithms to write effective, efficient code.

- Backend Development: Develop expertise in building server-side applications using Java frameworks such as Spring Boot logic on the server side.
- Delve into building robust and scalable backend systems using Spring and Spring Boot.
- Database Management: Learn to work with relational databases using Java Database Connectivity (JDBC)
- Understand how to perform CRUD (Create, Read, Update, Delete) operations, handle transactions, and optimize database queries.

CHAPTER 2: OVERVIEW OF THE ORGANIZATION

Suggestive contents

A. Introduction of the Organization

B. Vision, Mission and Values of the Organization

C. Policy of the Organization, in relation with the intern role

D. Organizational Structure

E. Roles and responsibilities of the employees in which the intern is placed.

F. Performance of the Organization in terms of turnover, profits, market reach and market value.

G. Future Plans of the Organization.

A. Introduction of the organization:

SkillDzire is an innovative EdTech firm dedicated to empowering college students with cuttingedge technology training and upgradation. With a strong commitment to bridging the gap between academia and industry, we strive to equip students with the skills and knowledge required to thrive in the dynamic world of technology.

At SkillDzire, we believe that education should extend beyond the confines of textbooks and classrooms. Our comprehensive training programs are designed to enhance students' practical understanding of various technologies, preparing them to tackle real-world challenges. Through a combination of hands-on projects, industry-relevant curriculum, and expert guidance, we foster a learning environment that promotes creativity, critical thinking, and problem-solving skills.

We take pride in our partnerships with leading colleges and institutions, collaborating closely with faculty members and students to deliver tailored programs that address the evolving needs of the industry. Our team of experienced instructors and mentors are passionate about empowering the next generation of tech professionals, guiding them towards success in their careers.

As SkillDzire, we are committed to transforming the educational landscape by enabling students to excel and adapt in a technology-driven world.

B. Vision, Mission and Values of the Organization:

At SkillDzire, our vision is to revolutionize the learning experience for college students, becoming a trusted catalyst for their technological growth and success. We strive to create a dynamic ecosystem where students can acquire industry-relevant skills, foster a passion for innovation, and unleash their full potential.

Our mission is to empower students with practical knowledge, instill a growth mindset, and nurture their ability to adapt to the ever-changing technology landscape. We are dedicated to providing high-quality training programs that bridge the gap between theoretical education and realworld application, equipping students with the tools they need to thrive in the competitive global market.

Our core values of excellence, integrity, collaboration, and student-centricity guide our every endeavor. We prioritize delivering exceptional educational experiences, maintaining the highest

ethical standards, fostering collaboration among students, faculty, and industry professionals, and always placing the needs and aspirations of our students at the forefront of our efforts. Together, we are committed to shaping the future of education, transforming students' lives, and driving positive change in the technology industry.

C. Policy of the Organization in Relation to Intern Role:

At SkillDzire, we recognize the value of internships as a crucial stepping stone for students to gain practical experience and refine their skills. Our policy regarding interns is rooted in providing a supportive and enriching environment that fosters professional growth and learning.

We are committed to offering interns meaningful and challenging projects that align with their educational background and career goals. Through hands-on involvement in real-world projects, interns have the opportunity to apply theoretical knowledge, develop essential industry skills, and gain invaluable insights into the workings of our organization.

We prioritize open communication, mentorship, and guidance to ensure interns receive proper guidance throughout their journey with us. We believe in fostering a collaborative and inclusive culture, where interns are encouraged to share ideas, contribute to team efforts, and cultivate a sense of ownership in their work.

SkillDzire is dedicated to creating a positive and rewarding internship experience that equips interns with practical skills, broadens their horizons, and prepares them for future success in their chosen fields.

D. Organizational Structure:

SkillDzire operates under a well-defined organizational structure designed to facilitate efficient operations and foster effective collaboration. Our structure consists of various departments and teams, each with defined roles and responsibilities.

At the core, we have a dedicated leadership team that provides strategic direction and oversees the overall functioning of the organization. Reporting to the leadership team are department heads who manage specific functional areas such as curriculum development, training delivery, operations, marketing, and student support.

We follow a hierarchical structure that promotes clear communication channels, decision-making processes, and accountability. This enables streamlined coordination, effective teamwork, and the efficient allocation of resources. We believe in fostering a culture of collaboration, where each team member's expertise and contributions are valued, ensuring a cohesive and high-performing organization.

E. Roles and Responsibilities of Employees Placed with Interns:

Employees at Consensus who work closely with interns play a vital role in providing guidance, mentorship, and fostering a conducive learning environment. These experienced professionals are responsible for sharing their expertise, imparting industry insights, and ensuring interns receive comprehensive support during their internship journey.

Their roles encompass guiding interns through projects, providing constructive feedback, and encouraging continuous growth. Employees actively engage in knowledge transfer, sharing best practices, and facilitating hands-on learning experiences. They collaborate with interns to enhance their technical skills, nurture their professional development, and expose them to real-world scenarios.

By assuming these critical roles, employees contribute to the interns' success, enabling them to gain valuable industry exposure and equipping them with the necessary skills and knowledge for their future careers.

F. Future Plans of the Organization:

SkillDzire is committed to continuously evolving and expanding our offerings to meet the ever-changing demands of the technology industry. Looking ahead, we have several exciting plans to shape the future of our organization.

One of our key focuses is to strengthen and forge new partnerships with leading technology companies, educational institutions, and industry experts. These collaborations will allow us to incorporate the latest industry trends, cutting-edge technologies, and industry-relevant projects into our training programs.

We are investing in research and development to develop innovative learning methodologies, leveraging emerging technologies such as artificial intelligence, virtual reality, and augmented reality. By integrating these immersive learning experiences, we aim to provide students with interactive and engaging educational opportunities that simulate real-world scenarios.

Furthermore, we are expanding our reach to a wider audience by launching online learning platforms and mobile applications. This will enable students to access our training programs anytime, anywhere, and at their own pace.

SkillDzire is also dedicated to creating a strong alumni network, facilitating networking opportunities, mentorship programs, and career development support for our graduates. We aim to provide lifelong learning and support to our students, even after they have completed our training programs.

As we move forward, SkillDzire s is committed to being at the forefront of technology education, empowering students to thrive in the digital era, and making a positive impact on the global technology landscape.

CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

During the internship at SkillDzire Academy, the intern was assigned various activities and responsibilities related to Full Stack Java web development The following is a detailed description of the intern's experience, including working conditions, weekly work schedule, equipment used, tasks performed, and acquired skills.

Working Conditions: The intern worked in a modern and collaborative office environment within the training Department. The workspace was equipped with the necessary tools and resources, including a computer with the required software, access to relevant datasets, and a comfortable work area conducive to learning and productivity.

Weekly Work Schedule: The intern followed a regular 50-hour workweek, Monday to Saturday, with flexible working hours that accommodated both individual assignments and collaborative tasks. The schedule allowed for a balance between structured learning activities, project work, and guidance from mentors and team members.

Equipment Used: The intern utilized a computer with necessary software installations, including java programming environments such as jdk or eclipse, along with popular libraries like react js, spring boot, MySQL and Postman.

Tasks Performed:

Java full-stack web development refers to the development of web applications using Java for both the frontend and backend components. Here are some common tasks performed in Java fullstack web development:

1.Frontend Development:
- Building User Interfaces: Using HTML, CSS, and JavaScript, you create the visual components and
- layout for the web application.
- Implementing Interactivity: You use JavaScript frameworks like React.js or Angular to handle user interactions, perform client-side validations, and update the UI dynamically.
2.Backend Development:
- Creating RESTful APIs: You build Java-based APIs using frameworks like Spring Boot or   Java Servlets

- to handle HTTP requests and responses.
- Implementing Business Logic: You write Java code to implement the application's business logic, process data, and interact with databases or external services.
- Managing Authentication and Authorization: You secure the backend by implementing user authentication and authorization mechanisms, such as JWT (JSON Web Tokens) or session management.

3.Database Integration:

- Connecting to the Database: You establish a connection to a database management system like MySQL, PostgreSQL, or Oracle using Java database connectivity (JDBC) or ORM (Object Relational Mapping) libraries like Hibernate.
- Designing Database Schema: You define the database schema, tables, and relationships to store and retrieve application data effectively.
- Performing Database Operations: Using SQL or ORM queries, you perform CRUD (Create, Read, Update, Delete) operations on the database.

4.Server-side Rendering:

- Generating Dynamic Web Pages: You use Java template engines like Java Server Pages (JSP) to generate dynamic HTML content on the server-side, incorporating data from the backend.
- Rendering View Templates: You create reusable view templates to maintain consistency across different pages and sections of the web application.

Skills Acquired:

- Create user interfaces, handle user interactions, and build dynamic web pages usingfrontend frameworks like React.js.
- Server-side Java programming, utilizing frameworks like Spring Boot.
- Designing and implementing RESTful APIs.
- Java frameworks like Spring Boot, allowing communication between the frontend and backend components of the application.
- Object-oriented programming (OOP) principles, data structures.

ACTIVITY LOG FOR THE FIRST WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day – 1	Introduction and over view about the java full stack development	Understand the over view of the course.	
Day - 2	Headers Paragraph CSS introduction, Structuring text in html, Text formatting inline vs internal vs external styling List Tables, CSS backgrounds Border	Learning about Html	
Day – 3	Image List style display, Text style, Table style Font style Forms Form element input type Input attribute, Anchor tag, div Margin and	Learned about the Forms	
Day – 4	Padding, data base (DEMS VS RDBMS).	Learned about the data base	
Day – 5	Transition Position, Transform, Flex Data base EF Codd rule Animation, I frame Introduction of JS, Variables, Data types, Scoping.	Learned about the JavaScript	
Day – 6	Overview of Html, CSS is intro number strings operator's Dom	Learned about the operator dom.	

WEEKLY REPORT

Week-1(From Dt 13/05/2024 to Dt 20/05/2024)

Objective of the Activity Done: html and CSS will be started teaching

Detailed Report: HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets) are fundamental technologies used for creating and styling web pages HTML is the standard markup language used to web structure the content and elements of a page. It defines the structure and semantics of the page, enabling browsers and other CSS use selectors to target specific HTML elements and apply styles. Selectors can be based on element names, classes, Ds, attributes, or their relationships in the document structure. CSS CSS follows a cascading model, where styles can be inherited or overridden based on specificity and order of declaration. This allows for consistent styling across multiple pages or components. CSS defines the box model, which determines how elements are sized, positioned, and spaced It consists of content, padding, borders, and margins, allowing fine-grained control over the visual layout.

HTML is the backbone of web development, providing the structure for web pages. It consists of a Series of elements, each represented by a tag, that define the different parts of a webpage such as heading images, links, and more. HTML is essential for creating the content and layout of a website.

CSS is used to style and visually enhance HTML elements. It allows you to control the appearance of your web pages by defining colors, fonts, spacing, and layout.

To start, create an HTML file using a text editor and define the structure of your webpage using HTML tags.Then, use a separate CSS file to style your HTML elements by selecting them and applying Styles the combination of HTML and CSS is powerful and forms the foundation of modern web Development.

ACTIVITY LOG FOR THE SECOND WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day – 1	Transition Database DBMS VS ROEMAS Data types in SQL, EF CODD rules	Learned about the data base EF CODD rules	
Day - 2	Position Transform, Flex Animation	Learned about animation	
Day – 3	Grid Introduction of JS Variables Data types, Assignment in CSS, Free code camp	Learned about the java script	
Day – 4	Strings Numbers operators Data base Constrains	Learned about the operators	
Day – 5	DOM scoping loop. courses promises Database DDL	Learned about the DBMS languages	
Day – 6	Ajax local storage simple projects, Java introduction, Database notes	Learned about the ajax storage	

WEEKLY REPORT

WEEK – 2 (From Dt 21/05/2024 to Dt 27/05/2024)

Objective of the Activity Done: In this week data base and java script and CSS

Detailed Report: Start by installing a relational database management system (RDBMS) such as MySQL PostgreSQL, or SQLite. Follow the installation instructions for your chosen RDBMS and set up a database server on your local machine Once your RDBMS is set up, create a new database using SQL commands. For example, in MySQL, you can use the following command CREATE DATABASE dbname Replace db name with your preferred database name. Tables are used to store data in structured any format. Design a database schema and create tables accordingly. Specify column names, data types, and constraints. For instance, you can create a table named "users" with columns like "id," "name," and "email." Practice using SQL joins to combine data from multiple tables based on common columns. Learn about different types of joins such as inner join, left join, and right join. Understand how to establish relationships between tables using primary and foreign keys. Install a text editor or an Integrated Development Environment (IDE) that supports JavaScript, such as Visual Studio Code, Sublime Text, or Atom. Make sure you have a web browser installed to run and test your JavaScript code.

Free Code Camp's curriculum is divided into several sections, starting with basic HTML, CSS, and JavaScript, progressing to more advanced topics like front-end libraries, back-end development, and and gradually data visualization.

Combine these skills to create interactive web applications with a solid foundation in databases, dynamic behavior, and CSS for a visually appealing and responsive user interface. Practice and build small projects to reinforce your understanding throughout the week Learn the fundamentals of databases,focusing on concepts like data modeling, tables, and relationships. Start creating, querying, and manipulating databases to store and retrieve information efficiently.

ACTIVITY LOG FOR THE THIRD WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day – 1	Setting up the environment, basis syntax, hello world, command line arguments, task of JVM JDK, JRE identifiers, variables, comments.	Learned about the java environments	
Day - 2	Operators (arithmetic, unary, assignment relational logical bitwise shift, decision making (if statements if else statements if ladder and switch).	Learned about the java operators	
Day – 3	String equals method, operator program and decision-making program	Learned about decision making statements	
Day – 4	For loop while loop do while loop recursion function Exam	Learned about the looping statements	
Day – 5	Decision making and control structure programs.	Learned about the control statements	
Day – 6	Number series, Pattern printing control structure	Learned about the series and pattern structures	

WEEKLY REPORT

WEEK – 3 (From Dt 28/05/2024 to Dt 03/06/2024)

Objective of the Activity Done: this week about java environments and programming

Detailed Report: Java programming environments (IDEs) available that provide powerful tools and features to help you develop Java applications efficiently Eclipse is a popular open-source IDE widely used for Java development. It offers a rich set of features, including code completion, debugging refactoring, and version control integration. Eclipse also has a vast ecosystem of plugins and extensions for various purposes. Visual Studio Code (VS Code) is a lightweight, free, and highly customizable source code editor developed by Microsoft. While not an IDE specifically designed for Java, VS Code offers. Excellent Java support through extensions like Language Support for Java by Red Hat and Debugger for java operators Java, operators are symbols that perform specific operations on operands (variables, constants, or expressions). Java provides a wide range of operators to perform arithmetic, assignment, comparison, logical, bitwise, and other operations. Here are the main categories of operators in Java:

These extensions in a VS Code editor will help us to run in live server and run in the Editor with the help of inbuilt extensions which are already downloaded in the VS Code editor. The IDE can Be support all types of extensions and there will be a language support in the VS code editor. Also we are Downloaded the JDK and Eclipse in our systems and set the environment path in the environment setup.

It will excuse to execute the code in runtime as well as the java project to create object, class and package in the java projects. Then we are creating a new java project and do the projects in the eclipse IDE.

ACTIVITY LOG FOR THE FOURTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person Incharge Signature
Day – 1	Introduction of array, multi-dimensional array, two dimensional array	Leaned about the arrays	
Day - 2	Jagged array final array, reflected array string immutable strings, string comparison concatenation, substring to string class.	Learned about the string concatenation	
Day – 3	String buffer vs string builder vs string SQL (DDL, DML)	Learned about the string topics	
Day – 4	Over view of Full stack with sample project.	Learned about the project	
Day – 5	JDBC (show tables and insert values and update values) and interface Weekly assessment	Learned about the assessment	
Day – 6	abstraction and interface and inheritance exception handling try catch and finally and JDBC auto comment and roll back and procedure in SQL.	Learned about the exception handling	

Objective of the Activity Done: this week arrays and string handling assessmets.

Detailed Report: In Java, an array is a data structure that allows you to store multiple values of the same type under a single variable name. Arrays are used to store collections of elements and provide convenient ways to access and manipulate the data. A one-dimensional array is the simplest form of an array, also known as a vector or a single-dimensional array. It stores elements in a linear sequence. Each element is accessed using a single index. Java supports multidimensional arrays, which are arrays of arrays. These arrays have multiple dimensions and can be considered as matrices or tables.

A two-dimensional array represents a matrix with rows and columns. It can be visualized as an array of arrays or a grid. A three-dimensional array extends the concept of a two-dimensional array and represents a cuboid structure with height, rows, and columns. A jagged array is an array of arrays where each subarray can have a different length. It allows for irregular or ragged structures.

You can declare and initialize a string using the **String** class. String objects are immutable, meaning their values cannot be changed once they are created. Java provides the + operator for concatenating strings together. You can concatenate multiple strings or combine strings with other data types.

You can determine the length of a string using the `length()` method. To compare strings for equality, you should use the `equals()` method. The `==` operator compares object references, not the actual content of the strings.

Weekly assessments are in done in consensus academy official site we are done as per query and Coding for that also we passed all test cases in that consensus portal % we do all tasks which are assigned the tasks and submit with in the time. And we submitted some assignments through the GitHub repository Finally marks are evaluate to us and to give prior to concentration on programming languages. Then there Conclude the test cases in portal with in the time limits.

ACTIVITY LOG FOR THE FIFTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day – 1	JDBC (show tables and insert values and update values) and interface Weekly assessment	Learned about the assessments	
Day - 2	Thread multithreading collection introduction, hands on in JDBC	Learned about the JDBC.	
Day – 3	Collection completed java overview spring boot introduction and installation	Learned about spring boot	
Day – 4	Postman installation and spring boot introduction and package explanation repository and model	Learned about the post man	
Day – 5	Controller API (get mapping and post mapping)	Learned about the tasks	
Day – 6	Controller API (put mapping, find by (id) and delete mapping delete by (id))	Learned about the tasks	

WEEKLY REPORT

WEEK-5(From Dt: 11/06/2024 to Dt:17/06/2024

Objective of the Activity Done: JDBC and MySQL done in post man application

Detailed Report: JDBC (Java Database Connectivity) is a Java API that provides a standard way to interact with relational databases. It enables Java applications to connect to databases, execute SQL queries, retrieve and manipulate data, and manage database transactions. JDBC acts as an interface between the Java programming language and various database management systems (DBMS).

A JDBC driver is a software component that implements the JDBC API for a specific database management system. It provides the necessary functionality to establish a connection with the database, execute SQL statements, and retrieve results. JDBC drivers are typically provided by the database vendors and need tobe. included in the Java application's class path To interact with a database using JDBC, you need to establish a connection to the database. You provide the necessary connection parameters, such as the database URL, username, and password, to create a Connection object. The Driver Manager class is responsible for managing and establishing database connections.

In Postman, you can create HTTP requests (GET, POST, PUT, DELETE, etc.) by specifying the request URL, headers, query parameters, request body, and authentication details. You can customize various aspects of the request, such as content type, authorization, and response format.

Postman provides features to organize and group your requests into collections. Collections allow you to. manage related requests, add descriptions, and apply variables and scripts for dynamic behavior.

ACTIVITY LOG FOR THE SIXTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day – 1	Project preparation, our demo project	Learned about the project	
Day - 2	Project, they are done register form table and other tables Login validation is balance	Learned about project details	
Day – 3	React installation, package explanation and introduction of react	Learned about react library	
Day – 4	Overview of last one month class and React basic codes: props, states, components.	Learned about React Framework	
Day – 5	Routes and Route then old html code change into react components	Learned about the React Routes	
Day – 6	CSS into react and one get and put sample project in React and Spring Boot	Learned about Spring Boot	

Objective of the Activity Done: project demo explanation and react, spring boot.

Detailed Report: React is a popular JavaScript library for building user interfaces (UIs) for web

applications. It was developed by Facebook and is widely adopted by developers and organizations for its

efficiency, flexibility, and component-based architecture. Here are some key aspects and features of React

React follows a component-based approach, where the UI is divided into reusable and independent

 components. Each component encapsulates its own logic and state, making it easier to develop, test, and

maintain complex UIs. React uses a virtual DOM (Document Object Model) to efficiently update and render UI

components. The virtual DOM is an abstraction of the actual DOM, which allows React to perform efficient.

updates by comparing the differences and applying only the necessary changes to the real DOM

JSX is a syntax extension for JavaScript that allows you to write HTML-like code within JavaScript. JSX is used.

in React to define the structure and appearance of components. It provides a more declarative and intuitive way to describe the UI.

React Router is a widely used library for handling routing in React applications. It provides a declarative way

to define routes, navigate between different pages or views, and handle URL parameters.

Spring Boot is a popular Java framework built on top of the Spring framework. It aims to simplify the

development of Java applications, particularly web and microservices-based applications. Spring Boot

provides a convention-over-configuration approach, allowing developers to quickly set up and configure

applications with minimal boilerplate code. Here are some key features and aspects of Spring Boot

ACTIVITY LOG FOR THE SEVENTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person In-charge Signature
Day – 1	Crud connectivity Axios with one entire full stack project	Learned about the crud	
Day - 2	24 hours hackathon	About the hackathon	
Day – 3	24 hours hackathon	About the hackathon	
Day – 4	24 hours hackathon and distribution prizes	About the hackathon	
Day – 5	Project done under by mentorship	About the project	
Day – 6	Project done under by mentorship	About the project	

WEEKLY REPORT

WEEK – 7 (From Dt 25/06/2024 to Dt 01/07/2024)

Objective of the Activity Done: CRUD and axios full stack hackathon.

Detailed Report: CRUD is an acronym that stands for Create, Read, Update, and Delete. It represents the four basic operations that can be performed on persistent data in a system. The CRUD operations are commonly associated with database management systems, but they can be applied to other data storage mechanisms as well. Here's a brief explanation of each CRUD The Create operation refers to the action of creating and inserting new data records into a database or storage system. It involves providing the necessary data and attributes for a new entity and storing it persistently.

CRUD operations are fundamental for managing and manipulating data in various applications, including web applications, mobile apps, and database-driven systems. They provide the basic functionalities for interacting with persistent data and implementing data management features.

A full-stack hackathon is an event or competition where participants are challenged to develop a complete web or software application, typically within a limited timeframe, that encompasses both the front-end (client-side) and back-end (server-side) development. It tests the participants' skills in various technologies and their ability to work on different layers of the application stack. These events promote learning, creativity, teamwork, and problem-solving in a competitive and time-constrained environment.. They also encourage participants to think holistically about the development process and consider both the front-end and back-end aspects of an application.

ACTIVITY LOG FOR THE EIGHTH WEEK

DAY & DATE	BRIEF DESCRIPTION OF THE DAILY ACTIVITY	LEARNING OUTCOME	Person Incharge Signature
Day – 1	Project done under by mentorship	About the project	
Day - 2	Project done under by mentorship	About the project	
Day – 3	Project done under by mentorship	About the project	
Day – 4	Project done under by mentorship	About the project	
Day – 5	Project done under by mentorship	About the project	
Day – 6	Project done under by mentorship	About the project	

WEEKLY REPORT
WEEK – 8 (From Dt 02/07/2024 to Dt 06/07/2024)

Objective of the Activity Done: project done under mentorship.

Detailed Report: A project done under mentorship refers to a collaborative effort where a more.

experienced individual, known as the mentor, provides guidance, support, and expertise to a less

experienced individual, known as the mentee or project participant. The mentor's role is to offer advice,

share knowledge, and help the mentee navigate the project's challenges and requirements The mentor.

provides guidance and support throughout the project, helping the mentee understand the project goals,

requirements, and best practices. They assist in planning, problem-solving, and decision-making,

their expertise to ensure the project's success The mentee has the opportunity to learn from the mentor's

experience and knowledge. The mentor can share insights, techniques, and industry best practices,

helping the mentee enhance their skills and develop a deeper understanding of the project domain

Under mentorship, successfully completed a Java full-stack project, demonstrating

proficiency in both front-end and back-end technologies. The project involved utilizing Java, Spring

Boot, and a modern front-end framework to deliver a robust and scalable web application.

CHAPTER 5: OUTCOMES DESCRIPTION

Describe the work environment you have experienced *(in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)*

During full stack java web development internship, I have experienced a positive and collaborative work environment that prioritized effective people interactions and teamwork. The following aspects describe My experience in terms of people interactions, facilities, job roles, protocols, discipline, and more:

People Interactions: The work environment fostered open communication and collaboration

Facilities Available and Maintenance: The internship provided well-equipped workstations with the necessary software and hardware resources for Python programming and machine learning tasks.

Clarity of Job Roles: The roles and responsibilities of interns were clearly defined, allowing everyone to understand their specific tasks and objectives.

Protocols, Procedures, and Processes: The organization had established protocols, procedures, and processes for various tasks, such as data preprocessing, model development, and evaluation.

Discipline and Time Management: Interns were expected to maintain a high level of discipline and professionalism. Punctuality and meeting deadlines were crucial aspects of the work environment.

Harmonious Relationships and Socialization: The work environment encouraged harmonious relationships and a sense of camaraderie among interns and team members.

Mutual Support and Teamwork: Teamwork played a vital role in the internship experience.

Motivation: The internship program focused on providing interns with a motivating and challenging Environment.

Space and Ventilation: The work area provided adequate space for interns to work comfortably.

Describe the real time technical skills you have acquired (*in terms of the job- related skills and hands on experience)*

During my full stack java web development internship, I acquired several real-time technical skills
that were directly relevant to the job and provided me with hands-on experience in various aspects
Of full stack java key skills acquired.
HTML AND CSS: I gained proficiency in web page developing and designing widely using to create Web pages
Java Script: I learned about the how to manipulate html through java scripting functions.
DATA BASE: I learned how create data base through using MY SQL creating tables and commands DDL, DCL, TCL, etc..
FRONTEND FRAME WORK: I am used to design a frontend frame work by the help of REACT JS create user interfaces, handle user interactions, and build dynamic web pages using
BACKEND DEVELOPMENT: I Gained proficient in server-side Java programming, utilizing frameworks like Spring Boot or Java Servlets to handle HTTP requests, implement business logic, and interact with database.
Collaborative Tools: I gained experience in using collaborative tools such as GitHub for version control and team collaboration.

Describe the managerial skills you have acquired (*in terms of planning, leadership, team work, behavior , workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.*

During my full stack java web development internship, I had the opportunity to develop and enhance

several managerial skills that were instrumental in my success and growth. Here are the key

managerial skills I acquired during the internship:

Planning: I learned the importance of effective planning in managing projects and tasks.

Leadership: Through my internship, I gained valuable leadership skills by taking ownership of

assigned tasks and projects.

Teamwork and Collaboration: I developed strong teamwork skills by actively participating in

team projects and collaborating with fellow interns and team members.

Professional Behavior: The internship provided me with a platform to cultivate professional behavior.

Workmanship and Attention to Detail: I gained an understanding of the significance of

workmanship and attention to detail in delivering high-quality results.

Productive Use of Time: The internship taught me the value of time management and the

importance of utilizing time effectively.

Continuous Improvement: Throughout the internship, I embraced a mindset of continuous improvement.

Goal Setting and Decision Making: I learned how to set SMART (Specific, Measurable,

Achievable, Relevant, Time-bound) goals and align them with the broader objectives of the project

or organization.

Performance Analysis: I acquired skills in analyzing my own performance and seeking

feedback from mentors and supervisors.

Describe how you could improve your communication skills (*in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.,*)

Improving communication skills is crucial for success in any professional environment, including a

Full stack java web development internship. Here are some ways to enhance different aspects of communication skills:

Oral Communications:

Practice active listening: Focus on understanding others' perspectives, ask clarifying questions, and show genuine interest in what they say

Speak clearly and concisely: Use a confident tone, articulate your thoughts clearly and avoid using jargon or technical terms that others may not understand.

Written Communication:

Develop clarity and structure: Organize your thoughts before writing and use clear and concise language to convey your message effectively

Proofread and edit: Take the time to review your written work for grammatical errors, clarity, and coherence.

Conversational Abilities:

Engage in active conversations: Participate actively in discussions, express your opinions, and contribute constructively to conversations.

Practice empathy: Try to understand others' perspectives and be respectful of different viewpoints during discussions.

Confidence Levels and Anxiety Management:

Prepare in advance: Before important conversations or presentations, gather relevant information, and practice your delivery to build confidence

Positive self-talk: Replace negative thoughts with positive affirmations to boost your confidence.

Understanding Others and Being Understood:

Pay attention to non-verbal cues: Observe body language, facial expressions, and tone of voice to better understand others' emotions and intentions.

| **Extempore Speech and Articulating Key Points:** |
| Practice impromptu speaking: Engage in activities that require you to speak on a given topic spontaneously to develop your ability to articulate key points effectively. |
| **Closing Conversations and Maintaining Niceties:** |
| Summarize key points: Provide a concise summary of the main takeaways from the conversation or meeting before closing |

Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

Enhancing abilities in group discussions, participation in teams, contribution as a team member, and leading a team/activity is crucial for a successful full stack java web development internship. Here are some ways to improve in these areas:
Group Discussions:
Prepare in advance: Familiarize yourself with the discussion topic and gather relevant information to contribute effectively.
Actively listen: Pay attention to others' viewpoints, ask clarifying questions, and show respect for different opinions
Participation in Teams:
Collaborate effectively: Contribute actively to team discussions, offer assistance, and share your expertise with others
Take initiative: Volunteer for tasks, propose innovative ideas, and offer support to team members when needed.
Contribution as a Team Member:
Identify your strengths: Recognize your unique skills and knowledge and offer to apply them in relevant team projects or tasks.
Meet commitments: Ensure you deliver on your assigned tasks within the agreed timelines, maintaining high-quality standards.
Leading a Team/Activity:
Set clear goals: Define clear objectives for the team or activity, ensuring everyone understands their roles and responsibilities
Communicate effectively: Provide clear instructions, share expectations, and encourage open communication within the team.
Continuous Learning and Improvement:
Seek opportunities for professional development: Attend relevant hackathons , exams or courses to enhance your leadership and teamwork skills.
Solicit feedback: Actively seek feedback from team members, mentors, or supervisors to understand how you can further enhance your abilities.

Describe the technological developments you have observed and relevant to the subject area of training *(focus on digital technologies relevant to your job role)*

During my full stack java web development internship, I have observed several technological

Java Frameworks: Java web development has seen advancements in popular frameworks such as Spring and Java Server Faces (JSF). Spring Boot, a popular framework for building Java web applications, has gained significant popularity due to its simplicity and convention-over-configuration approach. It offers many features to enhance productivity and simplify development tasks.

JavaScript Front-End Frameworks: The rise of JavaScript front-end frameworks like React, and has significantly influenced full stack development. Java developers often use these frameworks along with Java-based back-end technologies to create interactive and dynamic web applications.

Student Self Evaluation of the Short-Term Internship

Student Name   : KONDAPALLI SAIKUMAR

Registration   : 21F21A0587

Term of Internship   : 8 Weeks   **From:** 13/05/2024 **To:** 06/07/2024

Date of Evaluation   :

Organization Name & Address   : SkillDzire Academy,04th Floor, Bizness Square, opp:Hitex Junction, HITEC City, Hyderabad, Telangana 500081

Name and Address of the

Supervisor with Mobile Number   : Dr. B.Krishnaveni $_{M.Tech.,}$ & 8919668942

Please rate your performance in the following areas:

Rating Scale: **Letter grade of CGPA calculation to be provided**

1) **Oral communication**	1	2	3	4	5
2) **Written communication**	1	2	3	4	5
3) **Initiative**	1	2	3	4	5
4) **Interaction with staff**	1	2	3	4	5
5) **Attitude**	1	2	3	4	5
6) **Dependability**	1	2	3	4	5
7) **Ability to learn**	1	2	3	4	5
8) **Planning and organization**	1	2	3	4	5
9) **Professionalism**	1	2	3	4	5
10) **Creativity**	1	2	3	4	5
11) **Quality of work**	1	2	3	4	5
12) **Productivity**	1	2	3	4	5
13) **Progress of learning**	1	2	3	4	5
14) **Adaptability to organization's culture/policies**	1	2	3	4	5
15) **OVERALL PERFORMANCE**	1	2	3	4	5

Date: **Signature of the Student**

Evaluation by the Supervisor of the Intern Organization

Student Name	: KONDAPALLI SAIKUMAR
Registration No	: 21F21A0587
Term of Internship	: 8 Weeks **From:** 13/05/2024 **To:** 06/07/2024
Date of Evaluation	:
Organization Name & Address	: SkillDzire Academy,04th Floor, Bizness Square, opp:Hitex Junction, HITEC City, Hyderabad, Telangana 500081
Name and Address of the	
Supervisor with Mobile Number	: Dr. K. Krishnaveni M.Tech., Ph.D. & 8919668942

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the Student's self-

evaluation Rating Scale: **1 is lowest and 5 is highest rank**

	1	2	3	4	5
1) Oral communication	1	2	3	4	5
2) Written communication	1	2	3	4	5
3) Initiative	1	2	3	4	5
4) Interaction with staff	1	2	3	4	5
5) Attitude	1	2	3	4	5
6) Dependability	1	2	3	4	5
7) Ability to learn	1	2	3	4	5
8) Planning and organization	1	2	3	4	5
9) Professionalism	1	2	3	4	5
10) Creativity	1	2	3	4	5
11) Quality of work	1	2	3	4	5
12) Productivity	1	2	3	4	5
13) Progress of learning	1	2	3	4	5
14) Adaptability to organization's culture/policies	1	2	3	4	5
15) OVERALL PERFORMANCE	1	2	3	4	5

Date: **Signature of the Supervisor**

PHOTOS & VIDEO LINKS