INTERNSHIP REPORT ON

WEB DEVELOPMENT

Submitted to

Madhav Institute of Technology & Science, Gwalior

Towards the Partial Fulfillment for the Award of the degree of

Bachelor of Technology

In

ELECTRONICS & TELECOMMUNICATION ENGINEERING

2019-2023

Company Name: Kfintech Ltd, Mumbai

Company Mentor: K . Ram Kaushik

Duration: 08-02-2023 to 31-07-2023

SUBMITTED BY

Vijayshree Saraswat

(0901ET191068)

GUIDED BY

Dr. Karuna Markam

ASSISTANT PROFESSOR DEPARTMENT OF ELECTRONICS ENGINEERING
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR-474005

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(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal, M.P.)

2019-2023

CERTIFICATE OF APPROVAL

This is to certify that the Internship is carried out in **Kfintech LTD, Mumbai** submitted by **VIJAYSHREE SARASWAT (0901ET191068)** student of **B. Tech. IV-Year (VIII Semester)** in partial fulfillment for the award of the degree of **Bachelor of Technology in Electronics & Telecommunication Engineering** under R.G.P.V., Bhopal. It is a record of their own work carried by them during internship.

Supervised/Verified by

29/05/23

Dr. Karuna Markam
Assistant Professor

Approved by

29/5/23

Dr. Vandana Vikas Thakare
H.O.D

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2019-2023

CANDIDATE DECLARATION

We hereby declare that the work which has been carried out during the Internship in the company **Kfintech LTD, Mumbai** in partial fulfillment for the award of the degree of **Bachelor of Technology** in **Electronics & Telecommunication Engineering** from Madhav Institute of Technology & Science, Gwalior is an authenticated record of our work carried under the supervision /mentorship of **K . Ram Kaushik** (Project Lead, Kfintech Mumbai) **& Dr. Karuna Markam** (Assistant Professor, MITS, Gwalior). The matter embodied in this internship report is not submitted for the award of any degree or diploma anywhere else.

Vijayshree Saraswat
(0901ET191068)

ACKNOWLEDGMENT

I express my sincere gratitude and earnest indebtedness to Madhav Institute of Technology & Science, Gwalior (M.P.) for providing the golden opportunity to complete our internship. I acknowledge with great pleasure and grateful indebtedness towards my internship mentor Mr. K . Ram Kaushik (Project Lead, Kfintech) & Dr. Karuna Markam (Assistant Professor, MITSGwalior) for providing with very useful and beneficial guidance throughout the Internship.

I also express my heartfelt gratitude to Dr. Vandana Vikas Thakare, Head of the Electronics Engineering Department for her profound guidance throughout the Internship.

I would also like to acknowledge Director Dr. R. K. Pandit for helping me with the resources needed to accomplish this task. The environment at M.I.T.S. has been a valuable experience for us. With many difficulties, this Internship has blessed me with great knowledge in my field of interest. I also thank all those who have helped me in every path in the completion of this Internship and made this Internship a success.

Date: 29/05/2023 Vijayshree Saraswat

Place: Gwalior (0901ET191068)

NOC

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)
Phone: 0751-2409362, Email id: tnp@mitsgwalior.in
(Training and Placement Cell)

Ref.: T&P/22/2063 **Date: 3/1/2023**

To,

Ambika Swamy,
Ksintech LTD, Mumbai

Dear Sir/Ma'am,

We are grateful to the co-operation in imparting Industrial Training/Internship/Vocational Training to the Students of our Institute. Industrial training/Internship is a part of Academic Curriculum in Pre-Final and Final year of B.Tech./MCA/MBA students and the progress of the same will be counted in their overall results and also gives them exposure & improves their skills and personality.

We will be highly obliged, if the following student is/are permitted to undergo Training / Internship at your esteemed Organization for a period of 10/01/2023 to 15/07/2023.

S.No.	Name of the Student	Enrollment No.	Course - Branch
1.	Vijayshree Saraswat	0901ET191068	B.Tech - Electronics & Telecommunication Engineering

Hoping for your kind cooperation.

Best Regards!

Mr. Vikram Singh Rajput)
Training & Placement Officer

Kindly feel free to contact us for any further information.

Important Declaration: *This is a system generated letter with reference no. after the approval from the authority. There is no need for a signature and seal on hard copy.*

Internship/Project Expected Outcomes

Session: Feb–July 2023

Student Name: Vijayshree Saraswat

Enrollment No.: 0901ET191068

Internship/Project Title: Web Development

Objective of Internship/Project:

The objective was to contribute in creating, building, and maintaining of websites. It includes aspects such as web design, web publishing, web programming, and database management. It is the creation of an application that works over the internet i.e. websites.

Brief details of Internship:

In Kfintech LTD. I'm working as a full stack developer intern, currently working with UI and UX development team
And responsible for building front end architecture and backend interactive admin dashboard.

As a fullstack developer in the UI development team my responsibilities are to work with the React & Visual Studio to build functions to implement on the admin panel Dashboard & to perform analysis by understanding business requirements and data by co-operating with the team.

Expected/Achieved Outcomes of Internship/Project:

1. Students will be able to integrate statistical material UI charts to analyze the requirements of Organization.
2. Able to build react applications using ReactJs, ReactDom 6, installing dependencies using global variables and adding type script and relay router and environment variables to make a progressive web app

Social relevance/impact of your Internship/Project:
Learnt how to work collaboratively with team and Partner teams, Got real life industry Experience, Completing work within timelines, learnt about application development.

29/05/22

DR. KARUNA MARKAM

Vijayshree Saraswat
(0901ET191068)

TABLE OF CONTENT

CHAPTER 1: INTRODUCTION

Website include different contents like web pages , multimedia content , web server.
Websites have many functions and are used for different purposes; for personal purpose , for commercial purpose , government or non-profit purpose etc. To build such websites different languages are used.

Website and online application creation and maintenance is known as web development. The creation of useful and aesthetically pleasing websites that are accessible online combines programming, design, and content management. The following are some essential elements and technologies frequently employed in web development:
With the use of tags, HTML (Hypertext Markup Language) defines components like headers, paragraphs, photos, links, and more to give the structure and content of web pages.
The visual style and layout of web pages, including fonts, colors, element spacing, and placement, are defined by CSS (Cascading Style Sheets).

JavaScript is a computer language that allows for interactive and dynamic features on web sites. You may develop features like form validation, animations, and Front-end development entails working on the client-side of web applications with an emphasis on the user interface and user experience. To build dynamic and visually appealing websites, it uses HTML, CSS, and JavaScript. Web applications' server-side is taken care of by back-end development. Building the underlying logic and functionality entails using tools like servers, databases, and programming languages like Node.js, Python, PHP, and Ruby. Frameworks and libraries: To make the process of developing a website easier, these two types of resources offer pre-built tools and components. Express.js, Ruby on Rails, Django, Angular, and React.js are a few examples. databases: Databases house and control the data used by web applications.

Databases like MySQL, PostgreSQL, MongoDB, and SQLite are often used. Version control: Tools like Git, which enable developer collaboration and make code distribution easier, assist developers monitor and manage changes to their codebase. Designing websites with responsiveness in mind is crucial given the prevalence of mobile devices and their various screen sizes and resolutions. The website will appear good and work properly across a range of devices thanks to responsive design. Security: In order to shield websites from flaws and threats, web developers must be aware of security best practices . Web application security requires procedures like input validation, secure authentication, and data encryption.
Front-end, back-end, full-stack development, among other disciplines, are only a few of the many specialties in the large subject of web development. In order to stay current in this ever changing sector, it's critical to continuously study new information and stay up to date on best practices .

CHAPTER 2: React JS

Facebook developed the JavaScript library known as React JS, and it is now being maintained by Facebook and a developer community.

- React.js uses a fictitious Document Object Model (DOM) to efficiently update the user interface as data changes.
- React.js is frequently used to build single-page applications, even though it may be used for a variety of applications.
- React.js' declarative syntax makes it simple to reason about the state of the user interface.

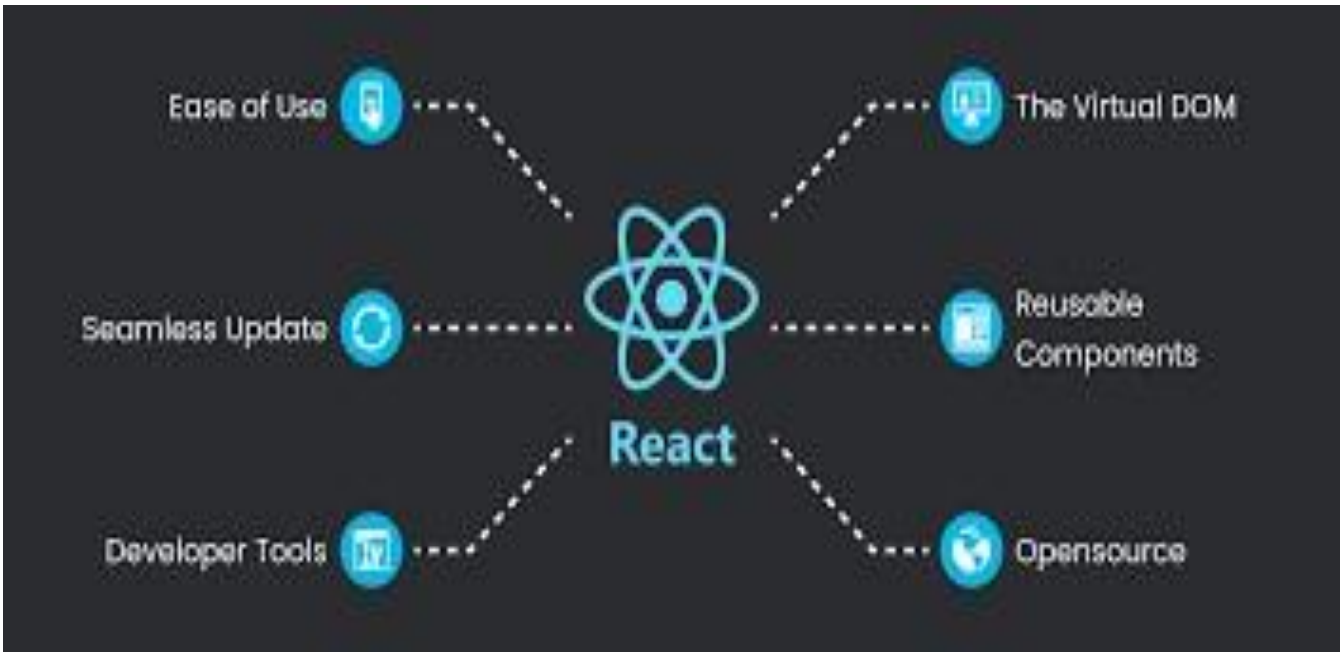

Fig.1

Developers in React.JS mostly look for the reuse of the Lego-like website building blocks. These components are fairly simple to create using JS file extensions, and when all of the components are combined, a dynamic website is created.

Roles and responsibilities in the V model View Container pattern, as well as enabling and supplying the highest execution efficiency, are some of Reacts Js' key tasks. This is primarily used for client-side development and dealing with the

entirety of a single as a unit total building block of UI for websites and apps. JavaScript contributes to its efficiency and speed as well as its ability to give development more power and make it more dynamic and responsive.
Do not enforce unneeded constraints for file and code organization or conventions, similar to how other frameworks, such PHP or Angular React, operate. Developers are given free rein to use it as they see fit, and it also works in their benefit. Use it as needed, whether your needs are large or small.

Using this, you can quickly change it due to its flexibility and interactivity and create some full-fledged websites according to your usage. You can even create simple, one-page websites with outstanding user experience and efficiency.

Its widespread acceptance and reliability allow for the creation of quick, effective, scalable, appropriate, and reusable websites. Numerous web applications numbering in the thousands

CHAPTER 3 : CSS

Cascaded Style Sheets (CSS) is a form of web language that is used to exhibit our pages on websites with colors, layouts, fonts, and other beautifiers. This allows us to see how webpages display on various screens, including big and tiny screens and printers. In addition to HTML, it can also be used with additional markup languages. This makes it simpler for websites to share and maintain pages and sheets across kerbsides and maintain the environment of the web page.

- CSS, or Cascading Style Sheets, is a language for producing style sheets that describe how a document appears in a markup language, such HTML or XML.
- CSS is used for styling.

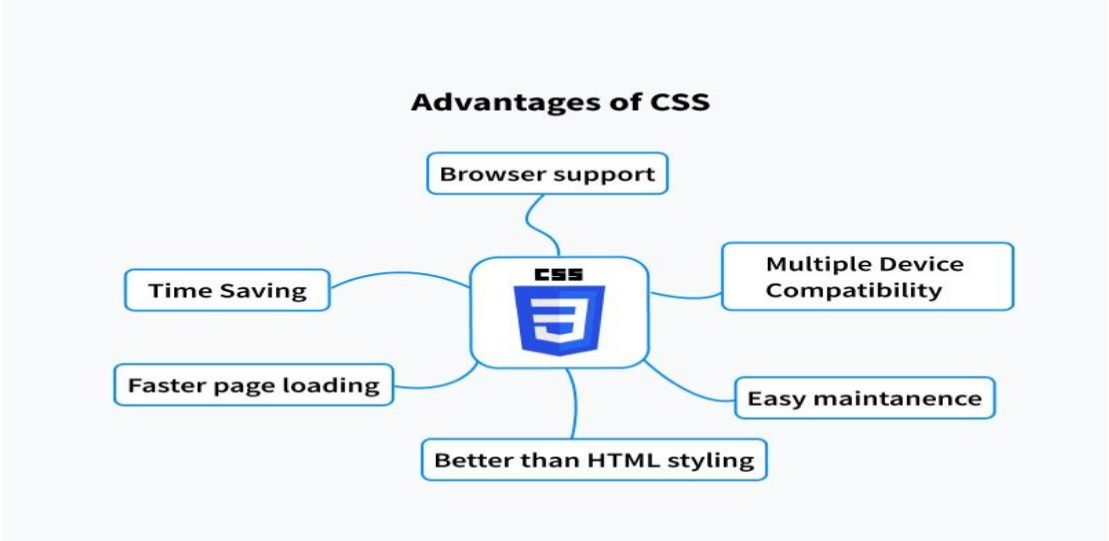

Fig.2

CSS Applications

One of the most often used style languages on the web is CSS, as was previously mentioned.Here are a handful of them that I'll list:

CSS is time-saving since you may create it once and reuse it on numerous HTML pages.

Every HTML element has a style that can be specified and used on as many webpages as needed. Pages load more quickly, and if you're using CSS, you won't need to constantly write HTML tag attributes.For each instance of a tag, just create a single CSS rule that is applied.

So, faster download times are implied by a lower code.

In comparison to HTML attributes, superior styles like HTML-CSS have a far wider range of attributes. This allows you to give your HTML page a lot better appearance.
Style sheets enable material to be customized for several device types, allowing for multi-device compatibility. Different versions of a website can be given for printing or for handheld devices like PDAs and cell phones using the same HTML document.

Global online standards: CSS is advised instead of HTML attributes, which are being phased out. Therefore, it is wise to begin using CSS on all HTML pages to ensure that they are compatible with forthcoming browsers.

CHAPTER 4 : MATERIAL UI

• The Material UI Act UI framework includes a variety of customizable elements and styles and is based on Google's Material Design.
To ensure a consistent user experience across platforms and devices, Google developed the Material Design design language.
• The Material UI provides a wide range of UI components that can be readily customized and integrated into react apps, such as buttons, forms, modals, and navigation bars.
• There are many and flexible color, typography, and other style options for Material UI components.
• It is straightforward to construct applications that work effectively across a variety of devices since Material UI offers a responsive design.

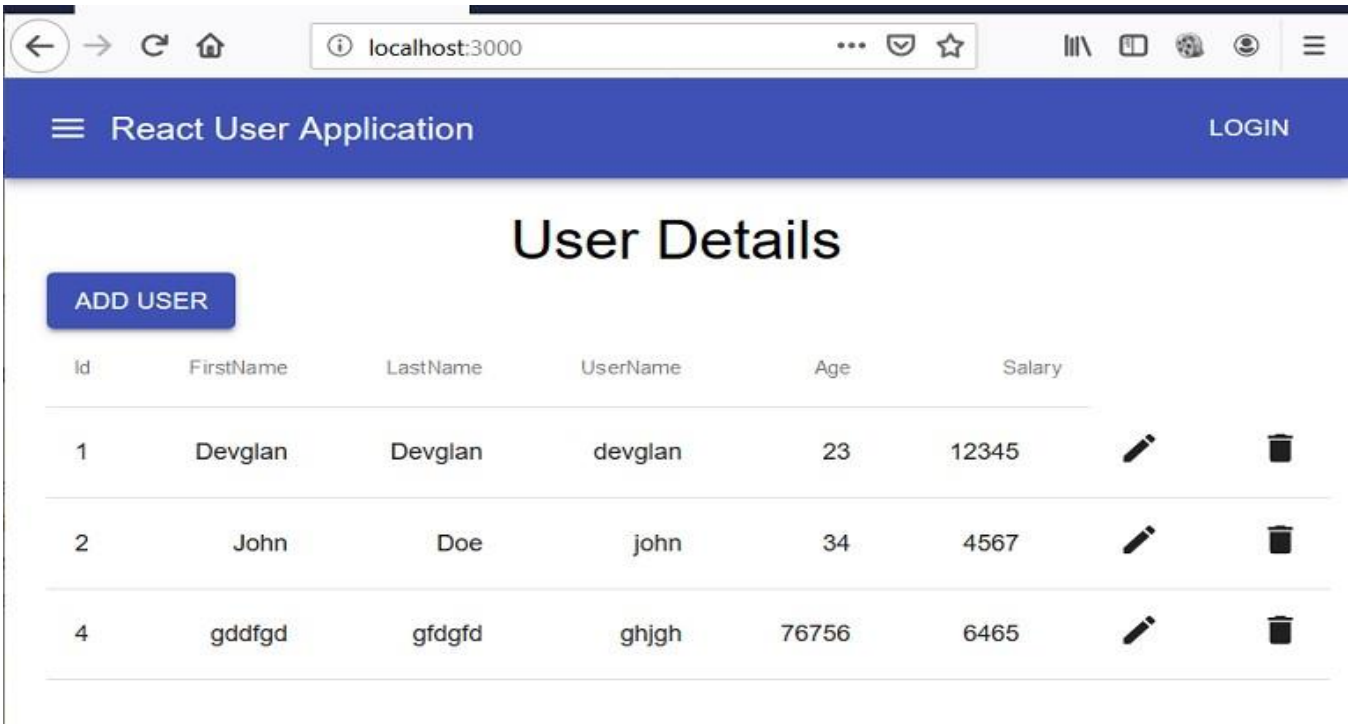

Fig.3

The act community offers a vast array of sophisticated UI component frameworks. One well-liked React UI framework is Material UI.

Material is the Metaphor

The physical environment and its textures, especially how they reflect light and create shadows, served as inspiration for the material design. The media of paper and ink are reimagined on material surfaces.

Components

A built-in state system is included in Material Components, interactive building blocks for designing user interfaces, to transmit focus, selection, activation, error, hover, push, drag, and disabled states. There are component libraries for flutter, Android, iOS, and the web.

Various interface requirements are covered by the components, including

- Display: Setting up and arranging information using objects like cards, lists, and sheets.
- Navigation: Enabling consumers to navigate the product using features like navigation tabs and drawers.
- Actions: Providing tools for users to carry out tasks, like a floating action button.
- Input: Enables information entry or selection by users utilizing elements like text fields, chips, and selection controls.
- Communication: Use components like snackbars, banners, and pop-ups to alert consumers of important information and messages.

CHAPTER 5: MONGO DB

MongoDB is a NoSQL database that stores data in documents that resemble JSON and is built for scalability and high availability. It may be used for a variety of applications.

- MongoDB is widely used in conjunction with Express and Node.js.
- MongoDB features a flexible schema, making it simple to update the data model, and is well suited for handling enormous volumes of data because it includes replication, sharding, and indexing capabilities.

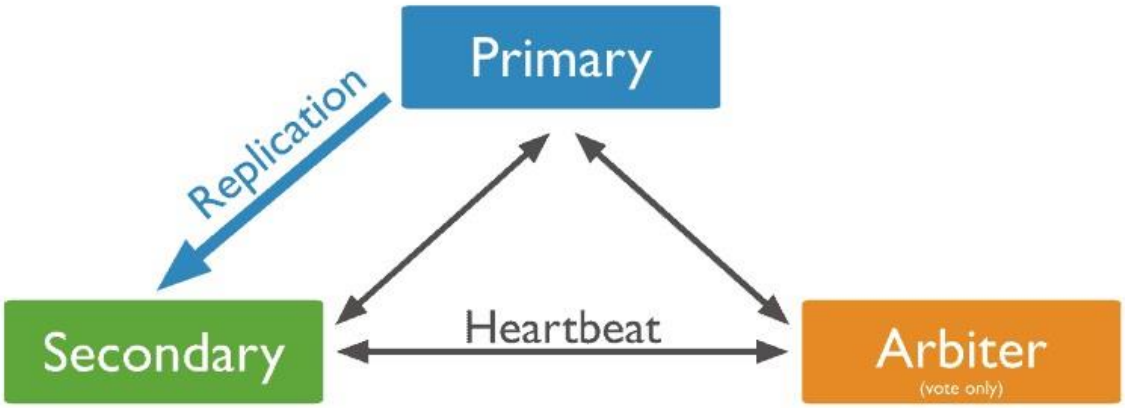

Fig.4

- MongoDB has excellent consistency, an expressive query language, and a secondary index.
- Enterprise Integration and Management with MongoDB. MongoDB is always deployed globally.
- High-volume data storage with MongoDB enables businesses to store a lot of data while maintaining quick performance. Ad hoc queries, indexing, load balancing, aggregation, server-side JavaScript execution, and other functionalities are also used by businesses with MongoDB.

.The MongoDB architecture is a NoSQL database that uses collections and documents in place of tables and rows, as in relational databases. Key-value pairs, the fundamental data type in MongoDB, make up documents. Document sets are

contained in collections, which are comparable to SQL tables. Numerous programming languages, including C, C++, C#, Go, Java, Python, Ruby, and Swift, are supported by MongoDB.

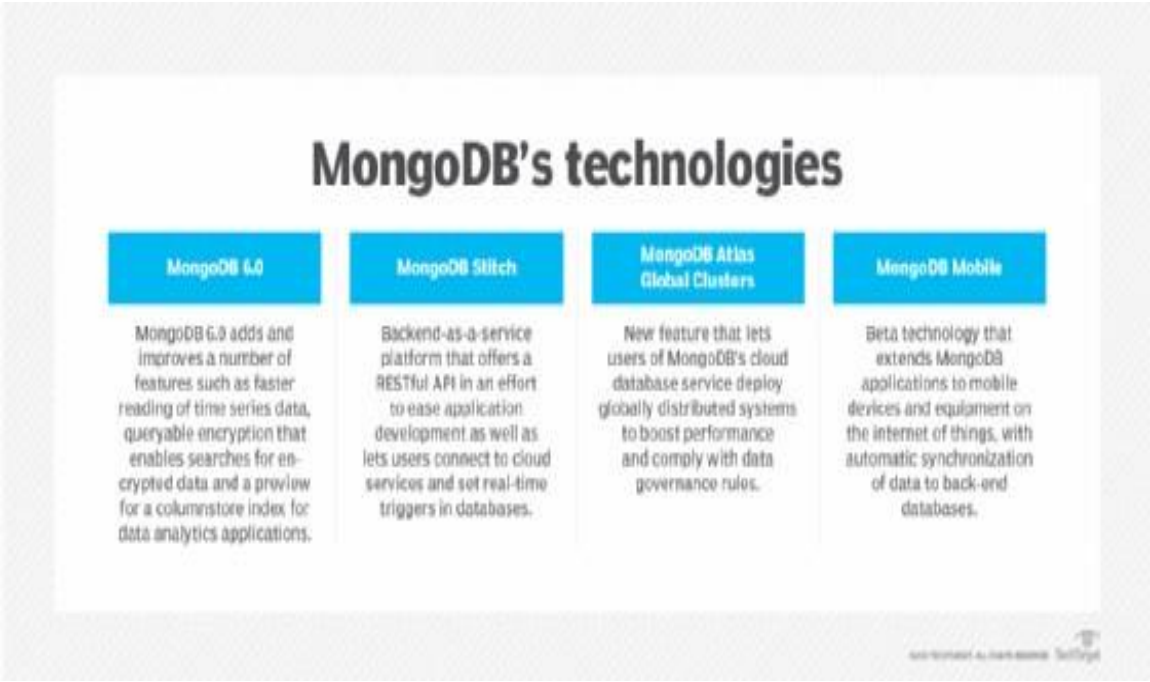

Fig.5

CHAPTER 6 : NODE JS

Node.js is a JavaScript runtime that allows users to execute JavaScript code outside of a web browser. It was developed on top of Google's V8 JavaScript engine. For the creation of scalable network applications, it provides a number of functionalities.

• Node.js is frequently used to build server-side applications, including real-time apps, APIs, and web servers. • Because Node.js offers a wide variety of modules and libraries, adding functionality to the application is simple.

Node.js is made to be rapid and efficient, which makes it good for handling huge loads of requests.

Node.js is made to be quick and effective, which makes it suitable for handling heavy loads of requests.

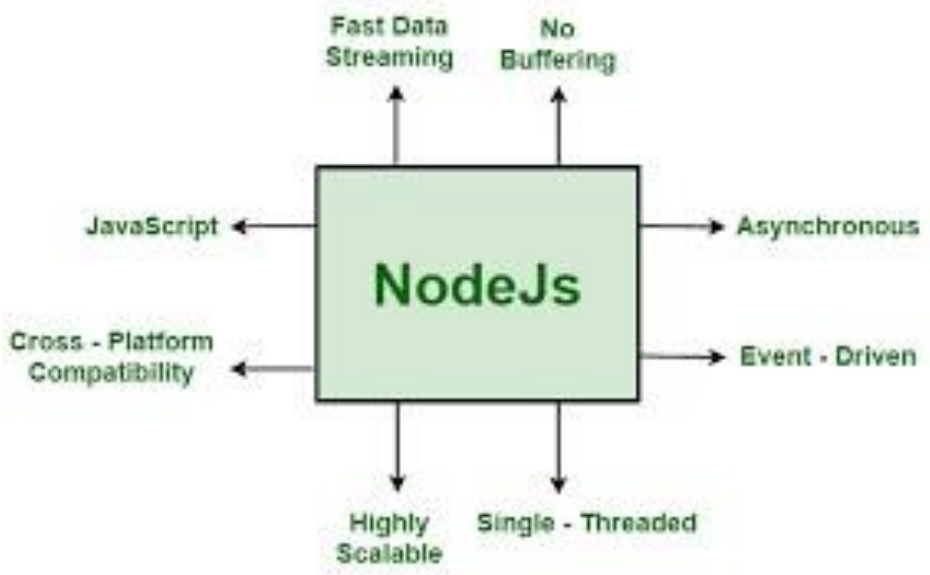

Fig.6

The fundamental building block of a data structure, like a linked list or tree data structure, is a node. Nodes can link to other nodes and include data. Pointers are frequently used to implement the connections between nodes.

Real-time web apps that use push technology rather than WebSocket shine when written in Node.js. A more open exchange of data is made possible by the node's real-time, two-way connections, where the client and server can each initiate communication.

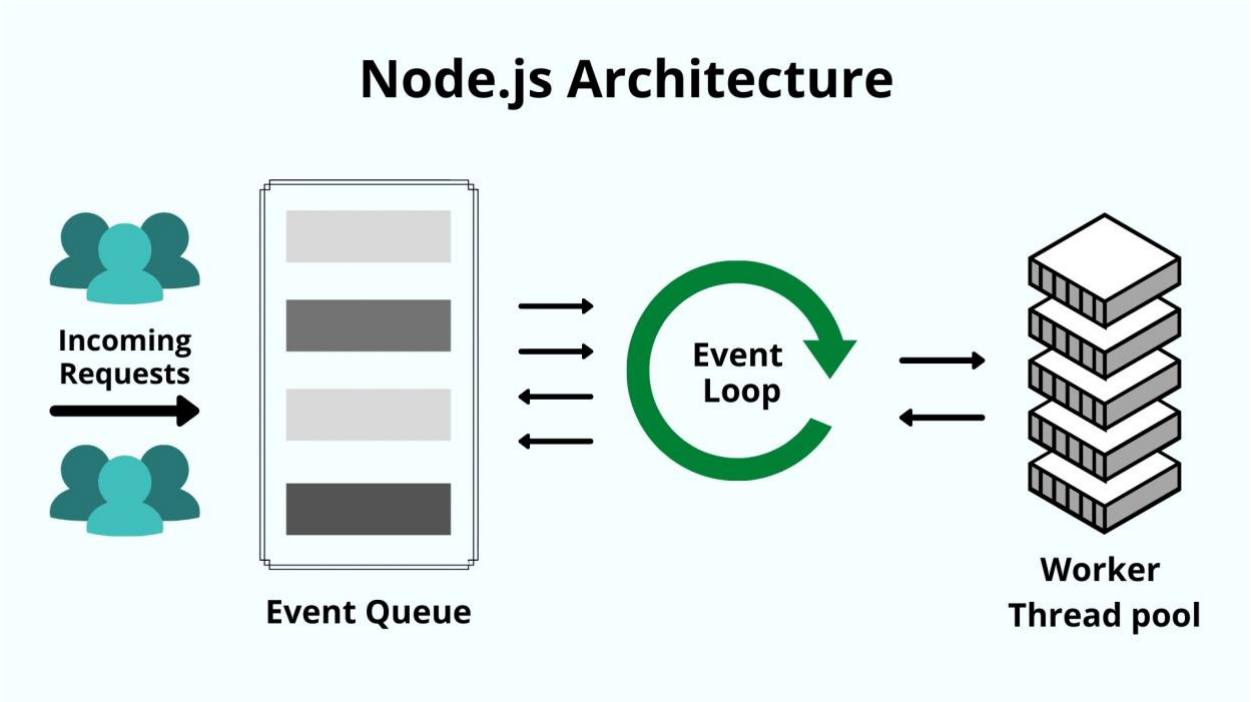
Node.js Architecture
Incoming
Requests
Event Queue
Event
Loop
Worker
Thread pool

Fig.7

CHAPTER 7 : REST API

Online services are developed using the web architecture design pattern known as representational state transfer (REST).

RESTful APIs are built on HTTP, a stateless technology that permits communication between clients and servers.

- REST APIs employ HTTP protocols including GET, POST, PUT, and DELETE to carry out Create, Read, Update, and Delete (CRUD) operations on financial data.

The resources are identified by Uniform Resource Identifiers (URIs), which give each site resource a unique address.

- JSON, XML, or plain text can be used to access responses from REST APIs.• Since RESTful APIs are designed to be scalable, extensible, and user-friendly, they are a desirable alternative for creating web services.

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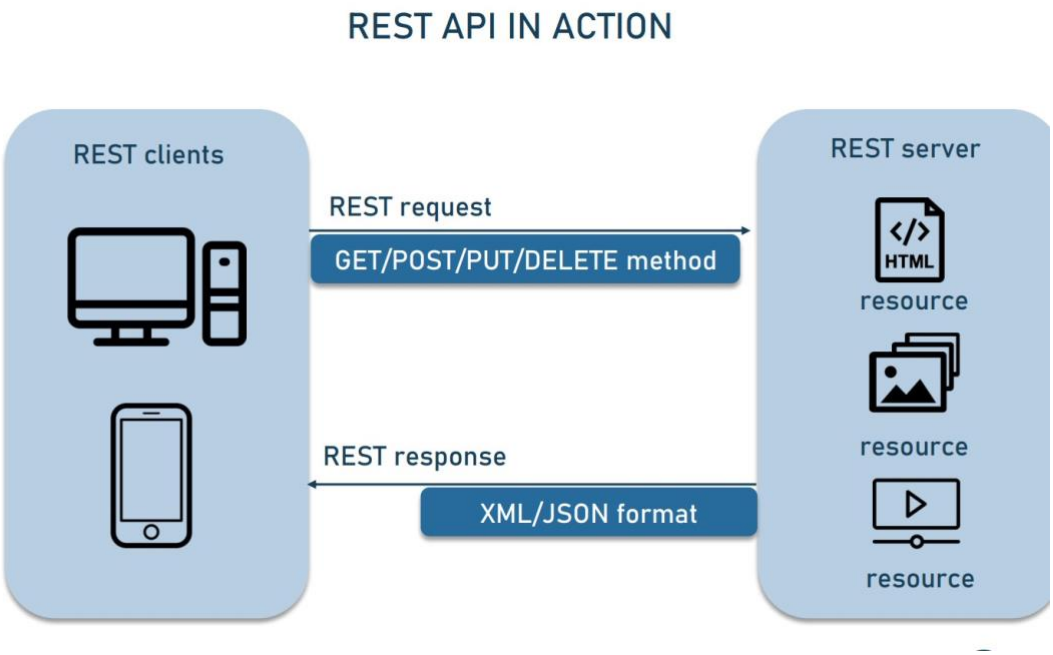

Fig.8

CHAPTER 8 : AWS

- Amazon's AWS cloud computing platform provides a range of cloud services for processing, storing, and managing databases.
- With no upfront costs or long-term commitments, AWS's pay-as-you-go pricing model lets users to only pay for the resources they really utilize.

AWS offers a variety of computing services, including virtual machines, containers, and serverless computing options.

- AWS provides a range of storage solutions with high availability and durability, including storing objects, memory blocks, and files.

Among the database services offered by AWS are databases with relationships, NoSQL databases, and cache-in-memory programs.

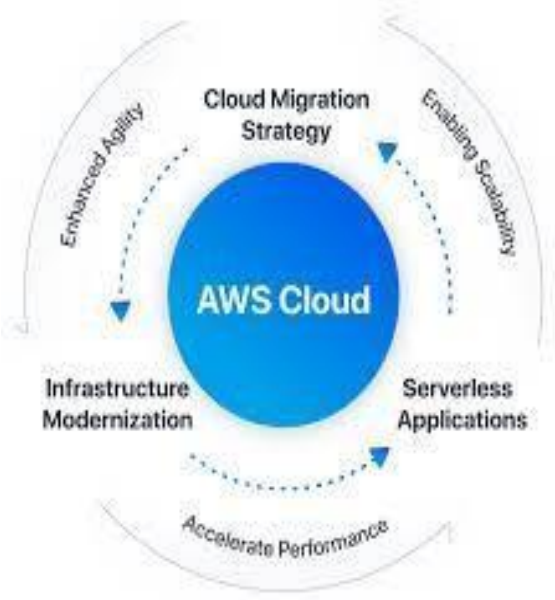

Fig.9

Amazon's cloud computing platform, AWS (Amazon Web Services), is extensive and constantly expanding. It combines infrastructure-as-a-service (IaaS), platform-as-a service (PaaS), and packaged software-as-a-service (SaaS) products.

AWS WellArchitected offers clients and partners a standardized method for assessing architecture and putting into practice scalable designs. It is built around six pillars: operational excellence, security, reliability, performance efficiency, cost optimization, sustainability.

Application providers, ISVs, and manufacturers can easily and securely host apps on AWS, whether they arenew SaaSbased applications or already in existence.

Critical data might be stored on the AWS. It provides a variety of storage options so that companies may choose what works best for them. They can be utilized for crucial business applications, long-term archiving, high-performance writing and reading, and file indexing and storage.

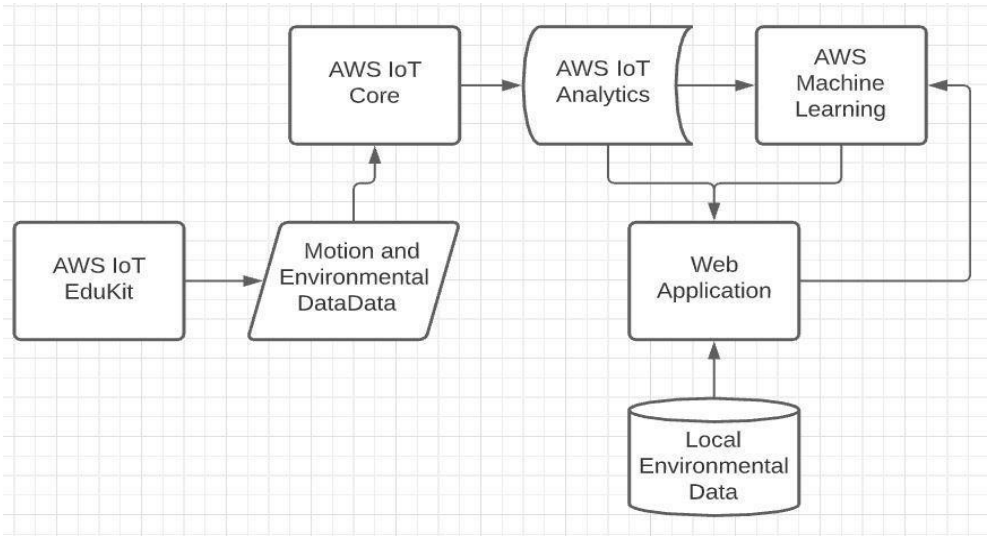

Fig.10

CHAPTER 9 : ATHENA EXPRESS

- Athena Express is the client API for Amazon Athena, a serverless computing dynamic query service that permits SQL-based data queries on Amazon S3.
- Athena Express simplifies the use of Athena by providing a straightforward interface for executing queries and obtaining results.
- S3 and other AWS services, such Node.js apps, are easily connectable with Athena Express. By reducing the process of accessing data in S3, Athena Express makes it simpler for programmers to construct serverless apps that require dynamic query capabilities.

Using conventional SQL, Amazon Athena makes it simpler to analyze data stored in Amazon Simple Storage Service (Amazon S3). Under the hood, it employs Facebook's open-source Presto SQL engine from 2012 to query their 300 Petabyte data warehouse. It has tremendous power.
The power of Presto is combined with AWS's serverless and self-managing features in Athena. Simply connecting Athena to your data in S3 will allow you to start running ordinary SQL queries. The majority of results are supplied in a matter of seconds, negating the need for time-consuming ETL tasks to prepare data for analysis. This makes it simple for anyone with SQL knowledge to study big datasets rapidly.

It makes it easier to integrate Amazon Athena with any Node.JS application, whether it runs independently or inside a n AWS Lambda function.

The steps outlined below are included in the athena-express package as a wrapper on the AWS SDK:

1. starts the execution of a query
2. Continues to check until the query has completed running

3. Retrieve the query execution's outcomes from Amazon S3.

Added features include:

1. Creates a neat, user-friendly JSON array from the results
2. Handles ThrottlingException, NetworkingError, and TooManyRequestsException issues by recursively retrying.

3. Offers supplemental, useful stats, such as the price per search in USD.

Finding the right API methods in the AWS SDK, connecting them one after the other sequentially, and then developing an error handling and retry mechanism for each of those methods are necessary for Athena integration without athena-express.

The most typical use case is combining an athena-express backend as a web frontend with Amazon Athena. A NodeJS application or lambda function might serve as this backend.

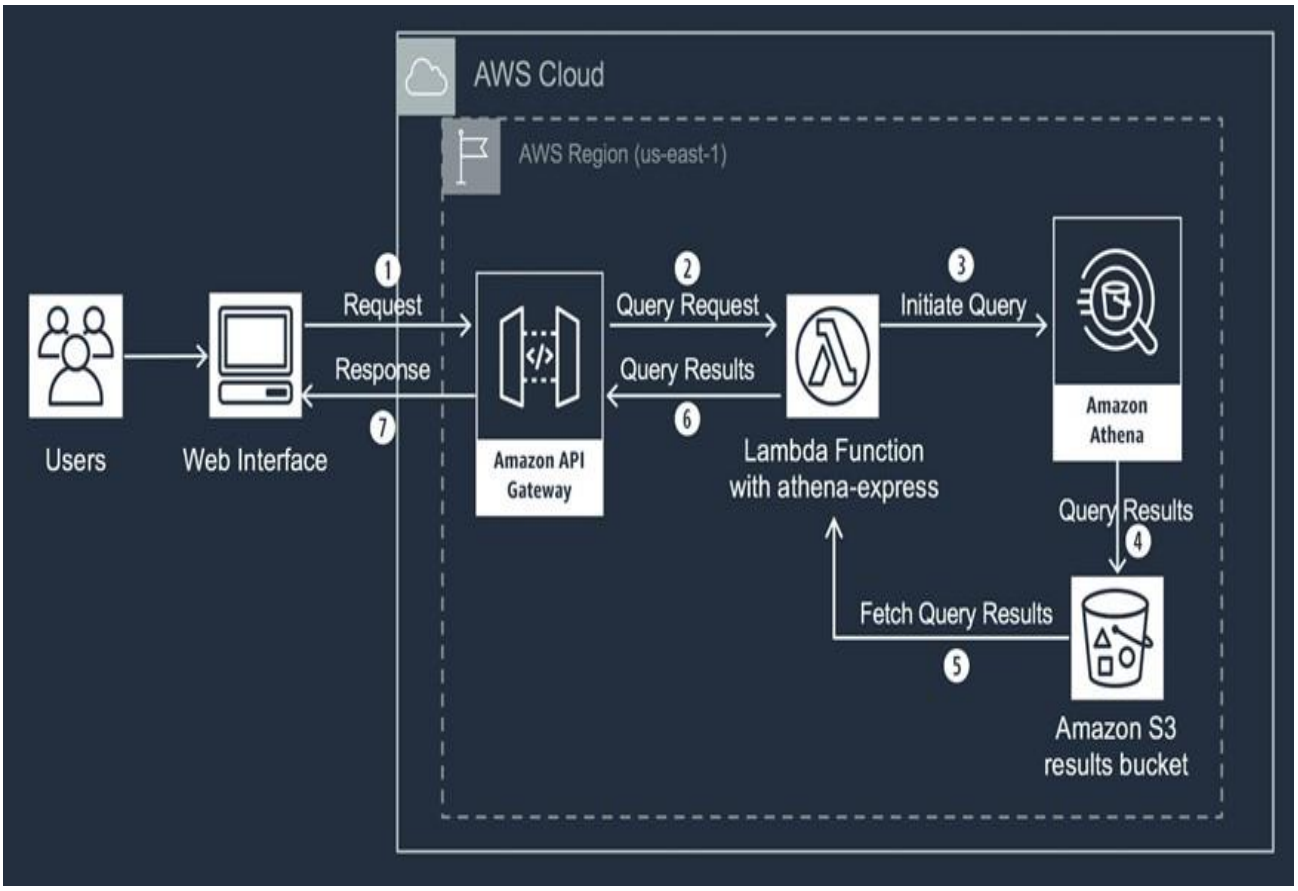

Fig.11

CHAPTER 10 : AMAZON S3 (Simple Storage Service)

- Large amounts of data can be stored and accessed using Amazon's S3 object storage service from any location on the internet.
- S3 offers a simple web service gateway that can be used to store and access a limitless quantity of data from any location on the internet at any time.
- High levels of resilience, accessibility, and adaptability of S3 ensure that data is always available and secure.
- S3 offers a number of storage classes, each tailored for a specific function and offering varying degrees of ruggedness, availability, and performance.

Storage management

The storage management capabilities provided by Amazon S3 make it easy to reduce latency, keep costs under control, and store several, separate copies of the data are required for compliance.

- S3 Lifecycle - Create a lifecycle to control and store products, affordably across the course of their lifetimes. At the conclusion of their lives, objects have two options: they can either transfer to another S3 storage class or pass away.

- S3 Object Lock: Prevent the deletion or overwriting of Amazon S3 objects either temporarily or permanently. Writeonce-read-many (WORM) storage is required by law. An object lock can be used to meet this need or just to offer another line of defence against object deletion and alteration.

- S3 Replication: Replicate objects with the object tags and information they are linked with to one or more destination buckets in the same or different AWS Regions to reduce latency and for extra purposes like compliance and security.

- S3 Batch Operations: Sort billions of things at once with a single S3 API call or a few mouse clicks in the Amazon S3 UI. Batch operations can be used to do the copy, invoke an AWS Lambda function, and restore procedures on millions or billions of items.

Access management and security

Features for limiting and auditing access to buckets and objects are available in Amazon S3. S3 buckets and the contents they contain are by default private. Only the S3 resources that you have produced are accessible. You can utilise the following functionalities to grant specific resource rights that support your use case or to verify the permissions of your Amazon S3 resources:

- S3 Block Public Access: Prevent the general public from accessing S3 items and buckets. Block Public Access settings are enabled by default at the Bucket level. We recommend leaving all of the Block Public Access settings enabled unless you are certain they are required for your individual application. For more information, see Setup options to limit public access to your S3 buckets.

- The Identity and Access Management (IAM) service provided by Amazon Web Services (AWS) is a web application that securely controls access to Amazon S3 services as well as other AWS resources. IAM provides the capability to centrally control permissions that restrict which AWS resources users can access. By controlling who is authenticated (signed in) and permitted (has permissions), you can control access to resources.

- Bucket policies - Configure resource-based rights for S3 buckets and their contents using IAM-based policy language. • Access points to Amazon S3 - Set up named network endpoints with restricted access limits to govern data access at scale for shared datasets in Amazon S3.

To manage data access at scale for shared datasets in Amazon S3, set up named network endpoints with exclusive access constraints.

ACLs (access control lists) grant approved users read and write access to specific buckets and objects. We generally advise against using ACLs for access control and instead relying on IAM user policies or S3 resource-based policies (bucket and access point policies). The policies give more flexible access management solutions and are easier to understand. Rules that apply universally to all requests for Amazon S3 resources can be set using buckets and access points. The policies provide more flexible solutions for access management and are simpler to understand. With the aid of bucket and access point policies, guidelines may be established that apply universally to all requests for Amazon S3 resources. For further information on the precise situations in which ACLs are used in place of resource-based policies or IAM user policies, see the recommendations for Access policy.

- S3 item ownership: By claiming ownership of each item in your bucket, you may streamline access control for data stored in Amazon S3. ACLs can be enabled or disabled using the S3 Object Ownership setting at the bucket level

in Amazon S3. By default, the ACLs are turned off. When ACLs are disabled, the owner of the bucket is exclusively in charge of managing the objects included within it as well as the access to the data.

• S3 IAM Access Analyzer: Verify that your S3 bucket access policies are current and being adhered to in order to ensure that only the users for whom they were designed have access to your S3 resources.

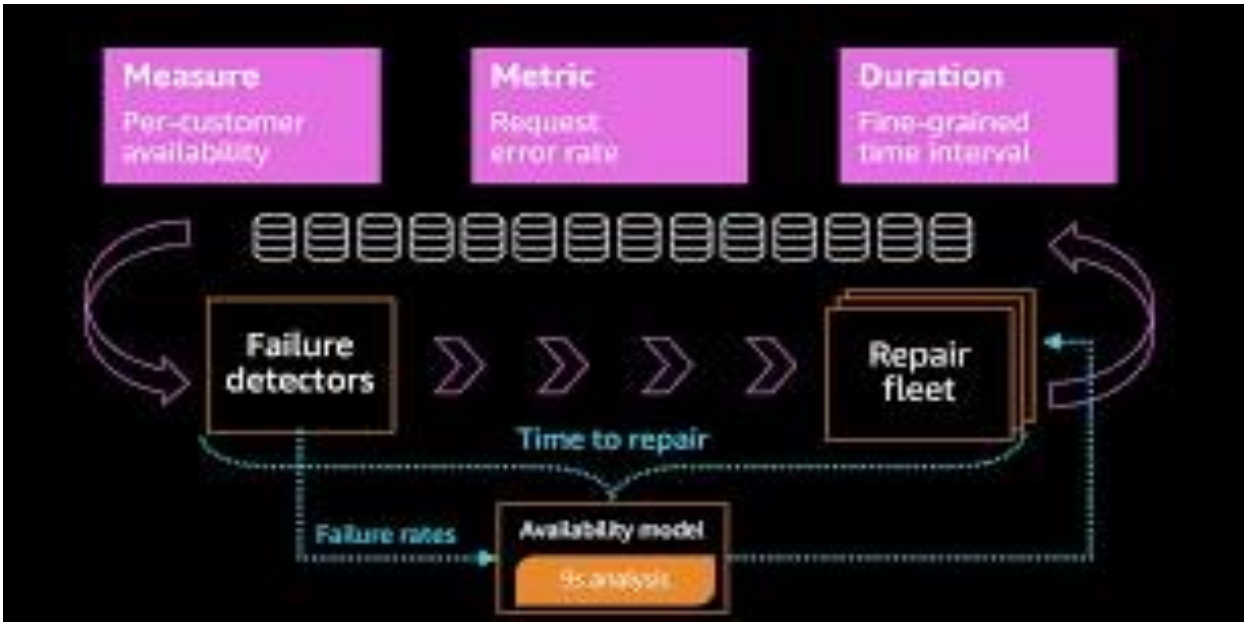

Fig.12

CHAPTER 11 : CONCLUSION

I can say that this internship was a fantastic experience in the end. I not only improved my technical understanding as a result of this endeavour, but I also gained personally. The most frequent web apps today include HTML, CSS, Node.JS, and React.JS, which are also among the most widely used web design languages worldwide. We can see millions of webpages created with them if we browse the Internet. I adapted to living in a setting that was different from my previous one. In fact, I became more independent in my daily life and at work. I came to the conclusion that I was more capable than I had assumed, even learning new things on my own. Students who desire to work in this sector have a lot of opportunities to choose from. Web designers are employed by numerous public and commercial organisations for online projects and website creation. In the approaching years, there will be many job opportunities for hopefuls due to the online industry's rapid growth and rising demand for web development expertise. A skilled professional in this industry can also work independently; a lot of internet businesses provide online projects to people.

CHAPTER 12 : REFERENCES

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Internship/Project Daily Diary

Session: Jan–June 2023

Name of Students: Vijayshree Saraswat

Enrollment Number: 0901ET191068

Branch and Year: Electronics and Telecommunications , 2019-2023

Internship/Project Title: Web Development

Company Name with Full Address: (K.Fintech), 301, 3rd Floor, The Centrium, : PHOENIX MARKETCITY, Kurla West, Kurla, Mumbai, Maharashtra

Stipend Detail: **Yes** **Stipend Amount:** 20,000

Industrial Mentor Detail: HR and Talent Acquisition Manager

Name of Industry Mentor: K Ramkaushik kadha

Email Address of Industry mentor:

Students must mention the daily progress details with dates in the given format such as daily work done/ software learn/coding/testing/site or field visit/hardware implementation, etc.

FEB.2023	01-02-2023 **TO** 07-02-2023	**1.** Completed 1st Chapter of 2nd Module on LMS (Data Modeler), Data Warehouse, prepared a data analysis report on Sales Report file available on S3, prepared rough BRD for a task Attended Meetings --> Whiz AI - Script Development Process, Product Release Meeting. **2.** Assigned to script Project, got access to internal servers, did Initial setup of Putty, Dbeaver, Script-migration server, had a detailed walk through of the script development process like for to access the server, various commands like port- forwarding. etc. learnt how to create a Jira ticket, how to make a commit to a Jira ticket and creating a branch in parallel. Attended Meetings --->Contribution & Customer Segmentation Computation, Partner Enablement Biweekly Sync-up. **3.** Gone through Solutions handbook, Various Existing scripts, started off with Entity configuration understanding gone through Script Development process, Discussion with Ganesh and Pranay on Documentations and lifecycle Attended Meetings --> Contribution & Customer Segmentation Computation

FEB.2023	08-02-2023 **TO** 14-02-2023	**1.** Completed 1st Chapter of 2nd Module on LMS (Data Modeler), Data Warehouse, prepared a data analysis report on Sales Report file available on S3, prepared rough BRD for a task Attended Meetings --> Whiz AI - Script Development Process, Product Release Meeting. **2.** Assigned to script Project, got access to internal servers, did Initial setup of Putty, Dbeaver, Script-migration server, had a detailed walk through of the script development process like for to access the server, various commands like port- forwarding. etc. learnt how to create a Jira ticket, how to make a commit to a Jira ticket and creating a branch in parallel. Attended Meetings --->Contribution & Customer Segmentation Computation, Partner Enablement Biweekly Sync-up. **3.** Gone through Solutions handbook, Various Existing scripts, started off with Entity configuration understanding gone through Script Development process, Discussion with Ganesh and Pranay on Documentations and lifecycle Attended Meetings --> Contribution & Customer Segmentation Computation

FEB.2023	15-02-2023 **TO** 21-02-2023	**1.** Actually Started with the script writing for the CONTRIBUTION COMPUTATION, got the access of the bit bucket repo, did postman setup to access entity configurations, wrote documentations related to script and made Flowchart for the same. Added Boiler Plate Snippets for the computations to the confluence Documentations for solutions. **2.** Got assigned with subtasks related to main contribution computations, Had Debugging session with Ganesh Completed 1 of 3 subtasks, Explored V60 API Documentation by the built-in functions in the code. wrote documentation for the computation. Attended Meetings --> Computation Development. **3.** Completed 2/3 Subtasks under Ganesh's Guidance (Multiple matric value with 100 and return), Took a call with Mark regarding his setup of postman, had a discussion over Script configurations, shared various commands needed for Script development on daily basis, Did a walk through over the Script-migration And cleared few doubts. Had a discussion with Lead over the main Computation script task.

FEB.2023	22-02-2023 **TO** 27-02-2023	**1.** Solution weekly Sync-up call, Computation Sync-up meet, work up on computation, Debugging Session on Contribution With Team-mate, Script- migration connect. Partner Enablement Biweekly Sync-up. **2.** Sales Attainment Computation Session with mark, V60 API Docs, Confluence Page Updating for Postman setup page, Contribution computation, Edge case discussion with Director. **3.** Pagination, Sort etc. for Computation Porting, Contribution computation (approach change discussion with Principal Architect), NLP/NLG Squad Update, unit testing and debugging for new Contribution Approach, script Development meet KT 1:1 with Senior Developer. **4.** Script Development meet with Ganesh and Mark On sales Attainment, Contribution Script development , Discussion on transition on metadata operation from Data frame operations.

MAR.2023	01-03-2023 **TO** 07-03-2023	**1.** Solution /Support weekly sync up, Volume Computation KT, Script-development Session, Contribution Script closing. Understanding requirements for Market Volume Computation. **2.** Ricks meets with Solution Team, Understanding Business requirement for Market Volume Computation, going through whiz framework, reviewing existing Market Volume script. Setting-up configurations, data Source for Market Volume computation. **3.** Computation Migration Sync-up, Saurabh and Madhavi's meet with PS team, Pharma 101 by Saurabh, Replacement Bundling Package V63 Walkthrough, Market Volume Script Development Completion. **4.** nlp/nlg squad update, Product release meet, Session on updates with Prateek, Market Volume Computation Script Unit testing, debugging errors for edge cases

MAR.2023	08-03-2023 **TO** 15-03-2023	**1.** Computation Migration Sync-up, Script-Migration touch base, Script development Session with mark on sales attainment, Market Volume lib Script discussion, Market Volume Script Edge cases Handling, documentation. **2.** Solution/Support weekly call, Computation Migration Sync-up, Partner Enablement Biweekly Sync-up, Script-migration environment not working, Computation error Debugging. **3.** Market Volume Script updated final implementation, Contribution script optimization with latest framework functions, documentation, discussion on computation with Lead, debugging Contribution Query type error. **4.** Visualization Demo, Computation Migration Sync-up, Market Volume Change implementation, Market Volume Optimization, Data Warehouse tutorial.

MAR.2023	16-03-2023 **TO** 23-03-2023	**1.** Visualization Demo, Data Warehousing concept learning, Market Volume lib script setup, Market volume optimization. **2.** Solutions Brownbag Session, Computation Migration Sync-up, Script Review - Arithmetic script, made changes in computations based on average script review. **3.** Solutions/Support Weekly Status Call, Computation Migration Sync-up, Finalizing Contribution Requirement, JnJ: Computation-Aggregate, Data Warehousing, gone through JnJ requirement, JnJ data Model. **4.** Visualization Demo, 2 months' Work review with Prateek, Computation scripts debugging and optimization, Data Warehousing, JnJ computation walk around building flowcharts and learning data dictionary. **5.** Computation Migration Sync-up, JnJ-Authorization-Getting aggregate, Script Review, changing functions in computations on basis of review findings, data warehousing concepts learning.

MAR.2023	24-03-2023 **TO** 31-03-2023	**1.** Dev, QA, Solutions sync with DevOps, Market Volume lib script setup and code, computation debugging, data warehousing. **2.** Solutions Brownbag Session - Prediction Algorithms, Computation Migration Sync-up, Discussion with Team Mate on library script development, computation edge case error debugging, data warehousing. **3.** Solutions/Support Weekly Status Call, Computation migration Sync up, hierarchical Change Computation Implementation and Discussion, JS Optimization. **4.** Documentation meet, Introduction to Deepak Giri, Hierarchical Change Computation Implementation and Discussion, Market Volume Computation Optimization. **5.** Setup for Heir Change, Setting up synonyms, Heir Change computation testing, Market Volume Script Optimization, Contribution optimization

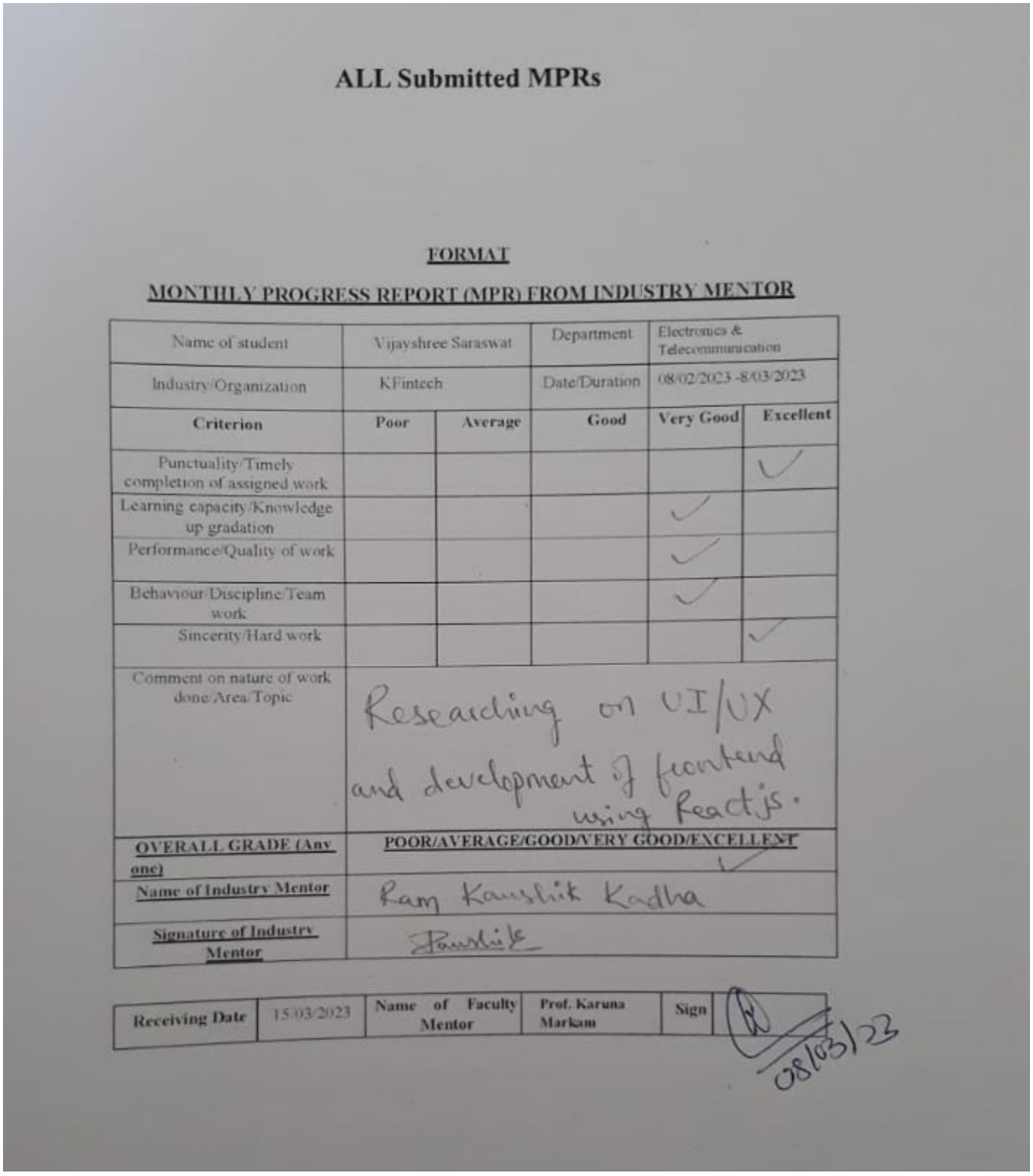
APRIL.2023	01-04-2023 **TO** 07-04-2023	**1.** Computation migration sync up, Customer Age Computation Discussion with mark, hierarchical Change Computation Optimization, Market Volume Library Script Conversion. **2.** Solutions/Support Weekly Status Call, Computation migration Sync up, hierarchical Change Computation setup on internal Environment, Script-Review Call with Principal architect, Market Volume lib Script Implementation changes. **3.** Script-Review, Age Computation Follow up with Mark, All Hands Monthly Meeting, Insights: 2023.1 training, Market Volume Lib Script Changes. **4.** Solution Team Retro meet, Computation Migration Sync-up meet with team lead and team, Age Computation Debugging and discussion with mark, Heir Change Script deployment on ***JnJ*** dev Environment.

APRIL.2023	08-04-2023 **TO** 15-04-2023	**1.** Computation Migration Sync-up, Script Review with Principal Architect, Age Computation Discussion with Mark Market Volume Mix Dimension Flag Implementation, Finalizing Contribution and Market Volume Lib Script with pagination to master repo, Meet on Script review with lead ***JnJ*** (Change Discussion), PE - 2023.1 Training and Demo. **2.** Solutions Brownbag Session - Configurations review utility, JnJ-computation-Internal Test meet, JnJ: Hierarchical Change Configuration, Script Review, Mark / Neelesh Debugging on Age Script. **3.** Solutions/Support Weekly Status Call, Computation Migration Sync-up calls, script review 1: 1 with, team-mates Age Computation Debugging, Partner Enablement Biweekly Sync-up, Minor Changes in Contribution Script, Reverse Porting ***JnJ*** Change to V58 Version. **4.** JnJ Server-Access Permission meeting, Script Review with Ganesh and Vaishnavi, Heir Change V58 Back porting to Legacy Version.

APRIL.2023	16-04-2023 **TO** 23-04-2023	1. Solutions Brownbag Session: Data Analytics, Code Review and Progress Review, Script *Pagination Support for Certain Use cases* for Migrated Scripts with application team, Computation Script Reverse porting V58 Reverse porting, Text Classifier Project Started. 2. Script migration review with Lead, Port-Forwarding and Tunneling session with lead Architect, *Change Computation* Script V58 Reverse Porting. 3. Script migration review with Senior Solution Engineer, Age Computation meet with Senior Full Stack Developer, follow up: PE - 2023.1 Training and Demo meet, Training Follow-up: Configuring Custom Narratives meet, Pagination Support for Migrated Scripts, ***JnJ*** Change V58 Legacy Script Debugging. 4. Solutions/Support Weekly Status Call, Script migration review with Ghanshyam, Age Computation Debugging with Mark, enabling Pagination Support for use cases in computations.
APRIL.2023	24-04-2023 **TO** 30-04-2023	1. ***JnJ*** Change Computation Writing and Debugging Edge cases, Resolving Call frequency metric on QA environment, Documentation. 2. Market Volume computation script Review 1:1, Quarterly meet with Solutions team, Contribution Pagination support - Review with Senior Solution Developer, minor changes in Market Volume lib, JnJ Change Script conclusion. *Text Classifier* Requirement. 3. Contribution Computation Script and Market Volume Library Script Review with Tech Lead, Pagination Advance Feature Support Review, Updating Documentation and flow chart for computations. 4. 2023.01 Test Run meeting, Wizard All Hands Learning Session - ChatGPT, Computation Debugging for legacy scripts, assigning tags or categories to text according to its content for ***text classifier*** project. Writing machine learning algorithm is fed with training data that consists of pairs of feature sets (vectors for each text example) and tags (FAQ, NER) to produce a classification.

MAY.2023	01-05-2023 **TO** 07-05-2023	**1.** Solution / Support Weekly Call, Computation Sync up, Age Script Debugging With mark, Computation Script Debugging, Understanding objectives of using Text Classifier. Getting ***BERT*** downloaded and set up. Creating a virtual environment with the required packages. You can use any package/environment manager. **2.** converting a dataset in the .csv format to the .tsv format that BERT knows, Preparing the data in tsv format, saving the train and dev data as .tsv files. **3.** Script Writing, 2023.01 Test Run, All Hands Monthly Meeting, Demo of Whiz installation using Harbour. Script Writing, Debugging , Documentation, Computation Sync-up meeting. **4.** Computation Script Debugging, Computation Syncup meet, Partner Enablement Biweekly Sync-up, Dev, QA, Solutions sync with DevOps
MAY.2023	08-05-2023 **TO** 15-05-2023	Contribution Pagination Discussion with Reporting Manager, Computation Sync up Call, Market volume growth changes with Lead Manager, Computation Sync-up, NLP/NLG Squad Update meet, ScriptDebugging. Documentation meet, Computation Sync-up, Computation Script writing, Documentation Updates, Computation Sync-up meet , Documentation Framework - Internal discussions, Internal Environment, Support QueriesWork Around. Computation Sync-up, PMPM / Registry meet, API metric Writing, Documentation, Solutions/Support Weekly Status Call, Segmentation V58Debugging, building Config for new Prescribers. API Metric Config Setup and Script Writing, API metric Script Writing Debugging, Internal QA environment Support Queries and Workaround.

ALL Submitted MPRs



ALL Submitted MPRs

FORMAT

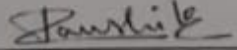
MONTHLY PROGRESS REPORT (MPR) FROM INDUSTRY MENTOR

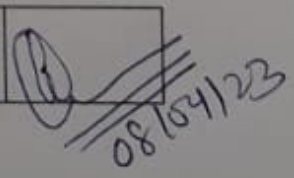
Name of student	Vijayshree Saraswat		Department	Electronics & Telecommunication	
Industry/Organization	KFintech		Date/Duration	08/02/2023 -8/03/2023	
Criterion	**Poor**	**Average**	**Good**	**Very Good**	**Excellent**
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Researching on UI/UX and development of frontend using Reactjs.				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT** ✓				
Name of Industry Mentor	Ram Kaushik Kadha				
Signature of Industry Mentor	Kaushik				

Receiving Date	15/03/2023	**Name of Faculty Mentor**	**Prof. Karuna Markam**	**Sign**	08/03/23

FORMAT

MONTHLY PROGRESS REPORT (MPR) FROM INDUSTRY MENTOR

Name of student	Vijayshree Saraswat		Department	Electronics and Telecommunication	
Industry/Organization	KFintech		Date/Duration	08/03/2023-8/04/2023	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Researching on UI/UX, development of backend using Node.js and development of frontend using React.js				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT ✓				
Name of Industry Mentor	Ram Kaushik Kadha				
Signature of Industry Mentor					

Receiving Date	13/04/2023	Name of Faculty Mentor	Prof. karuna Markam	Sign	

08/04/23

FORMAT

MONTHLY PROGRESS REPORT (MPR) FROM INDUSTRY MENTOR

Name of student	Vijayshree Saraswat		Department	Electronics and Telecommunication	
Industry/Organization	KFintech		Date/Duration	8/04/2023-8/05/2023	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Working on reporting modules on a BI platform.				
OVERALL GRADE (Any one)	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	K Ram Kaushik				
Signature of Industry Mentor					

Receiving Date		Name of Faculty Mentor	Prof. karuna Markam	Sign	

08/05/23

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Date: 29/05/2023

Name of Candidates:

Vijayshree Saraswat
0901ET191068

29/05/23

(Dr. Karuna Markam
(Supervisor)

(Dr. Laxmi Shrivastava)
(Head of Dept.)

DEPARTMENT OF ELECTRONICS ENGINEERING,
Madhav Institute Of Technology And Science,Gwalior-474005 (M.P)