ADITYA COLLEGE OF ENGINEERING
Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC
Recognized by UGC under the sections 2(f) and 12(B) of the UGC act 1956
Aditya Nagar, ADB Road - Surampalem – 533437, E.G.Dist., A.P.,

Project Name

SERVER AND PROJECTS PORTFOLIO MANAGEMENT

Team Members

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It is with immense pleasure that we would like to express our indebted gratitude to our internship coordinator **Mrs. P.N. S Lakshmi, Assistant Professor,** who has guided us a lot and encouraged us in every step of the intern project work, **her** valuable moral support and guidance throughout the Intern project helped us to a greater extent.

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Not to forget, **Faculty, Lab Technicians, non-teaching staff and our friends** who have directly or indirectly helped and supported us in completing our internship in time.

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Institute Vision, Mission

INSTITUTE VISION:

To induce higher planes of learning by imparting technical education with

- International standards
- Applied research
- Creative Ability
- Value based instruction and

to emerge as a premiere institute.

INSTITUTE MISSION:

Achieving academic excellence by providing globally acceptable technical education by forecasting technology through

- Innovative Research and development
- Industry Institute Interaction
- Empowered Manpower

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Accredited by NBA

Department Vision, Mission

DEPARTMENT VISION:

To be recognized as computer science & engineering hub striving to meet the growing needs of the Industry and society.

DEPARTMENT MISSION:

- Imparting Quality Education through state-of-the-art infrastructure with industry collaboration.
- Enable teaching and learning process with disseminate knowledge.
- Organize skill based, Industrial & Society events for overall Development.

HOD CSE
Head of the Department
Computer Science & Engineering
Aditya College of Engineering
SURAMPALEM-533 437

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Program Outcomes(POs)

Engineering Graduates will be able to:

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of theinformation to provide valid conclusions.
5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant tothe professional engineering practice.
7. **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and needfor sustainable development.
8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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Program Educational Objectives

The Graduates of B.Tech (CSE) Program shall be able to

PEO1: Develop Computer Science and Engineering professionals to identify, analyze and design solutions in the field of computing

PEO2: Enable graduates to propel in demonstrating professional ethics ,leadership and engaging in lifelong learning

PEO3: Prepare themselves as a responsible professionals in the domain of interest.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Program Specific Outcomes(PSOs)

PSO1: Ability to design, develop, test and maintain reliable software and intelligent systems in interdisciplinary domains

PSO2: Potential to deliver knowledge with professionalism in optimizing solutions and pursue lifelong learning

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1. ABSTRACT

During these 8 weeks of internship there are totally 28 Offline sessions, 28 practical sessions and total of 12 application development sessions are held. Duration of Offline and Practical sessions is 3 hrs per each and each application development session of duration 6 hrs.

In Offline sessions our mentors gave training on the given topics:

- HTML,CSS ,BOOTSTRAP
- JAVASCRIPT
- Frontend (Reactjs)
- Backend (Expressjs, MongoDB)
- Cloud

At the end of the internship, we have been divided into groups and each group has been assigned with full stack projects in real-time applications scenarios.

Project Abstract:

This project aims to tackle the common challenges faced by companies in managing resources, consolidating project data, and ensuring effective communication. Many organizations struggle with scattered information, misaligned teams, and delayed decision-making due to the absence of a centralized project information hub. These issues are compounded by modern, geographically dispersed work environments, where teams operate across different time zones and cultural contexts, further complicating communication and coordination. The proposed solution is a comprehensive, integrated system for server and project portfolio management. This system will provide a centralized hub for all project-related information, enhancing resource allocation, streamlining communication, and enabling data-driven decision-making. By addressing the multifaceted challenges of resource management, data consolidation, and communication, the project aims to improve project outcomes, ensuring timely delivery, adherence to budgets, and high-quality standards.

2. INTRODUCTION

During my internship, I embarked on an enriching journey into the realms of full-stack development with a strong emphasis on React.js. This transformative experience not only deepened my technical expertise but also fueled my passion for building robust and user-centric web applications.

Mastering full-stack development empowered me to seamlessly integrate front-end and back-end technologies, equipping me with a comprehensive skill set. With React.js at the forefront, I honed my ability to create dynamic and responsive user interfaces that elevate user experiences. From crafting reusable components to managing state efficiently, I embraced React.js's declarative approach to building modern web applications.

Beyond front-end development, I delved into the intricacies of server-side programming using frameworks like Node.js and Express.js. This immersion enabled me to design scalable APIs, manage databases, and implement secure authentication mechanisms, ensuring the functionality and reliability of applications from end to end.

Cloud computing refers to the delivery of computing services such as servers, storage, databases, networking, software, and more over the Internet. Users can access these services on-demand and pay as you go. (**Microsoft Azure**)

MongoDB is a leading NoSQL database management system that revolutionizes data storage and retrieval. Renowned for its flexibility and scalability, MongoDB employs a document-oriented model, storing data in BSON (Binary JSON) format. This schema-free approach enables developers to seamlessly adapt to evolving data structures, fostering agility in application development

Throughout my internship, I embraced a hands-on approach, applying these concepts to real-world Java projects and assignments. I look forward to leveraging the skills I've acquired to contribute effectively to Java development, problem-solving, and software engineering during my internship and beyond.

3. LEARNING OBJECTIVES/INTERNSHIP OBJECTIVES

- Internships are generally thought of to be reserved for college students looking to gain experience in a particular field. However, a wide array of people can benefit from Training Internships in order to receive real world experience and develop their skills.

- An objective for this position should emphasize the skills you already possess in the area andyour interest in learning more

- Internships are utilized in a number of different career fields, including architecture, engineering, healthcare, economics, advertising and many more.

- Some internships are used to allow individuals to perform scientific research while others are specifically designed to allow people to gain first-hand experience working.

- Utilizing internships is a great way to build your resume and develop skills that can be emphasized in your resume for future jobs. When you are applying for a Training Internship, make sure to highlight any special skills or talents that can make you stand apart from the rest of the applicants so that you have an improved chance of landing the position.

4. DAY TO DAY OVERVIEW OF INTERNSHIP ACTIVITIES

DATE	TOPIC	HOURS
3-06-2024	Offline Session 1 – Introduction to Html Offline Session 2 – Self-Paced Learning	6 hrs
4-06-2024	Offline Session 1 – Basic Html tags Offline Session 2 – Self-Paced Learning	6 hrs
5-06-2024	Offline Session 1 – Hyper links Offline Session 2 – Self-Paced Learning	6 hrs
6-06-2024	Offline Session 1 –Image links Offline Session 2 – Self-Paced Learning	6 hrs
7-06-2024	Offline Session 1 –Iframe Tags Offline Session 2 – Self-Paced Learning	6 hrs
8-06-2024	Offline Session 1–Lists and Tables Offline Session 2 – Self-Paced Learning	6 hrs
10-06-2024	Offline Session 1 –Forms and Layouts Offline Session 2 – Self-Paced Learning	6 hrs
11-06-2024	Offline Session 1–Introduction to CSS Offline Session 2 – Self-Paced Learning	6 hrs
12-06-2024	Offline Session 1– Internal & External styles Offline Session 2 – Self-Paced Learning	6 hrs
13-06-2024	Offline Session 1 –CSS selectors Offline Session 2 – Self-Paced Learning	6 hrs

14-06-2024	Offline Session 1 – Font & Border styles Offline Session 2 – Self-Paced Learning	6 hrs
15-06-2024	Offline Session 1 – Color & Background Styles Offline Session 2 – Self-Paced Learning	6 hrs
18-06-2024	Offline Session 1–Padding & Margin Offline Session 2 – Self-Paced Learning	6 hrs
19-06-2024	Offline Session 1 –Float Properties Offline Session 2 – Self-Paced Learning	6 hrs
20-06-2024	Offline Session 1 –Grid & Cards (bootstrap) Offline Session 2 – Self-Paced Learning	6 hrs
21-06-2024	Offline Session 1 –Lists & Tabs Offline Session 2 – Self-Paced Learning	6 hrs
22-06-2024	Offline Session 1–Images & models Offline Session 2 – Self-Paced Learning	6 hrs
24-06-2024	Offline Session 1 – Tables & Forms Offline Session 2 – Self-Paced Learning	6 hrs
25-06-2024	Offline Session 1 –Badges & Labels Offline Session 2 – Self-Paced Learning	6 hrs
26-06-2024	Offline Session 1 –Navbar & Alerts Offline Session 2 – Self-Paced Learning	6 hrs
27-06-2024	Offline Session 1 –Introduction to JS Offline Session 2 – Self-Paced Learning	6 hrs
28-06-2024	Offline Session 1 –Let,Var and Const Offline Session 2 – Self-Paced Learning	6 hrs

29-06-2024	Offline Session 1 –Data types Offline Session 2 – Self-Paced Learning	6 hrs
01-07-2024	Offline Session 1– Conditional Statements Offline Session 2 – Self-Paced Learning	6 hrs
02-07-2024	Offline Session 1 – Form Validations Offline Session 2 – Self-Paced Learning	6 hrs
03-07-2024	Offline Session 1 – JavaScript Events Offline Session 2 – Self-Paced Learning	6 hrs
04-07-2024	Offline Session 1 –String Methods Offline Session 2 – Self-Paced Learning	6 hrs
05-07-2024	Offline Session 1– Array Methods Offline Session 2 – Self-Paced Learning	6 hrs
06-07-2024	Offline Session 1 –ES6 Concepts Offline Session 2 – Self-Paced Learning	6 hrs
08-07-2024	Offline Session 1 –Introduction to React Offline Session 2 – Self-Paced Learning	6 hrs
09-07-2024	Offline Session 1 – Introduction about JSX Offline Session 2 – Self-Paced Learning	6 hrs
10-07-2024	Offline Session 1 –Rendering Elements Offline Session 2 – Self-Paced Learning	6 hrs
11-07-2024	Offline Session 1 –Components & Fragments Offline Session 2 – Self-Paced Learning	6 hrs

12-07-2024	Offline Session 1 – functional and class components Offline Session 2 – Self-Paced Learning	6 hrs
12-07-2024	Offline Session 1– export and import modules Offline Session 2 – Self-Paced Learning	6 hrs
13-07-2024	Offline Session 1 –Events & React Hooks Offline Session 2 – Self-Paced Learning	6 hrs
15-07-2024	Offline Session 1 – Routing & Axios Offline Session 2 – Self-Paced Learning	6 hrs
16-07-2024	Offline Session 1 – Installing Node JS Offline Session 2 – Self-Paced Learning	6 hrs
16-07-2024	Offline Session 1–NPM Offline Session 2 – Self-Paced Learning	6 hrs
18-07-2024	Offline Session 1 –monk, node-mailer etc. Offline Session 2 – Self-Paced Learning	6 hrs
18-07-2024	Offline Session 1 – GET,POST,PUT, DELETE Offline Session 2 – Self-Paced Learning	6 hrs
20-07-2024	Offline Session 1 –MongoDB installation Offline Session 2 – Self-Paced Learning	6 hrs
20-07-2024	Offline Session 1 –Creating database Offline Session 2 – Self-Paced Learning	6 hrs

21-07-2024	Offline Session 1–CURD Operations Offline Session 2 – Self-Paced Learning	6 hrs
22-07-2024	Offline Session 1 –indexing and sorting of data Offline Session 2 – Self-Paced Learning	6 hrs
22-07-2024	Offline Session 1 –Aggregation frame works Offline Session 2 – Self-Paced Learning	6 hrs
23-07-2024	Offline Session 1 –Installing Express JS Offline Session 2 – Self-Paced Learning	6 hrs
24-07-2024	Offline Session 1–Introduction about Express JS frame work Offline Session 2 – Self-Paced Learning	6 hrs
25-07-2024	Offline Session 1 –Creating a Project Offline Session 2 – Self-Paced Learning	6 hrs
25-07-2024	Offline Session 1 –Explaining about Project Folders Offline Session 2 – Self-Paced Learning	6 hrs
26-07-2024	Assigning Groups and projects discussions	6 hrs
26-07-2024	Mentor sessions and project development	6 hrs
27-07-2024	Project validation & FAQs Certificate Generation	6hrs

5.WEEKLY REPORT

Boot camp	Table of Content
Week-1	Introduction to Html Basic Html tags Hyper links & image links Iframe tags Lists & Tables Forms and Layouts
Week-2	Introduction to CSS Internal & External Styles CSS selectors Font & Border styles Color & Background styles Padding and margin, float properties
Week-3	Grids & Cards Lists & Tabs Images & Models Tables & Forms Badges & Labels Navbar & Alerts
Week-4	Introduction to JavaScript Let, Var & Const Data types, conditional statements Form validations Functions JavaScript events String and array methods, ES6 concepts

Week-5	Introduction to React & JSX Rendering Elements Components & Fragments Functional Components & class components Exporting and importing modules Props in react & events
Week-6	Routing and axios Installation NodeJS Introduction about NodeJS Node Package Manager Monk, node-mailer GET, POST, PUT, DELETE
Week-7	Installing MongoDB Creating database and CURD operations Indexing and sorting of data Aggregation frame work Installing Express JS Creating a Project Explaining about Project Folders
Last Week	Project development Mentor sessions Submissions Verification Certificate Generation

6. EXECUTIVE SUMMARY

This report is about my 8 weeks internship program with Technical Hub Pvt. Ltd., (Surampalem). In this comprehensive report, I have discussed about every major aspect of the company which I observed and perceived during my internship program.

During my internship program, I have learned and mainly worked on FULLSTACK DEVELOPMENT. All the details have been discussed in detail. All the policies and procedures of the company have been discussed in detail.

As per Technical Hub Pvt. Ltd., The purpose of the internship is to learn, by working in practical environment and to apply the knowledge acquired during the studies in real world scenario in order to tackle the problems using the knowledge and skill learned during the academic process.

7.ABOUT THE COMPANY

Technical Hub Pvt. Ltd., provides the trainings which are certification aligned and associated with various vendors that are top in the industry. Members who are part of this program are given a constant practical example on various topics, thus keeping them abreast of their technological world. It is located in Surampalem, Andhra Pradesh. Founded by Babji Neelam, Technical Hub Pvt.Ltd, quickly grew into one of the largest companies in the Kakinada.

Today, Technical Hub Pvt. Ltd is one of the largest technology Educator in Kakinada.

Mission: Technical Hub Pvt.Ltd, the Student Success Platform Improving the knowledge base with rapidly evolving technological skills, the skill to communicate across discipline, the ability to lead team-centered projects, contextualized problem formulation and hand-on experience is the present demand of the global industry. To meet this demand, Aditya initiated t-Hub: a perfect launch pad to the job world. T-Hub trains students in various disciplines beyond technological labels.

Vision: We believe that the business of business is to improve the state of the world, and we work to make sure Technical Hub Pvt. Ltd is a platform for change through serving the interests of all our stakeholders — employees, customers, partners, communities and the environment.

8.OPPORTUNITIES

During these 8 Weeks of the internship, I was given the opportunity to perform following role:

- **Intern:** Coordinating with the team members and team leads on a regular basis to keep a track of the activities like the Offline sessions held and about the work to be done.
- I learned about how to connect data to MongoDB.
- For that I have referred the GitHub repositories related to gain the complete knowledge on Connecting database.
- Then I have gathered the requirements for connection of database.
- They also provide us the opportunity to voluntarily interact in other projects as well.
- They have given different tasks to develop different parts of the application.
- I learned frontend topics, Backend topics, connection of frontend with backend , cloud computing.
- Also, they have finally conducted test to certify with the completion of internship.

8. TRAINING

During this 8 week of internship there are totally 28 Offline sessions, 28 practical sessions and total of 12 application development sessions are held. Duration of Offline and Practical sessions is 3 hrs per each and each application development session of duration 6 hrs.

In Offline sessions our mentors gave training on the given topics:

- HTML, CSS, Bootstrap.
- JavaScript.
- Frontend (Reactjs).
- Backend (Expressjs, MongoDB).
- Cloud Computing

10.CHALLENGES FACED

- At the beginning of internship, I faced difficulty for understanding the applications and different tools.
- I faced difficulty in installing the packages.
- I faced difficulty in understanding the installations of React native APP
- I faced difficulty in network issues.
- I faced difficulty in getting the hang of the language's syntax.
- I faced difficulty while implementing code.
- I faced difficulty while installing and set up of the Backend.
- I faced difficulty in MongoDB connection and usage of database.
- I faced the connection errors while connecting the frontend and backend.

Even with these difficulties, I am able to complete the internship so that it will help me to secure a job in near future.

11.ABOUT PROJECT

a. – Project Introduction:

- In the fast-paced landscape of modern IT operations, effective management of servers and projects is paramount to organizational success. The **Server and Project Portfolio Management** project aims to address this need by providing a unified platform for overseeing and optimizing both server infrastructure and project portfolios.
- Utilizing cutting-edge technologies such as **React Native** for the front end and **MongoDB** for backend data storage, this project offers a robust and scalable solution. The React Native framework ensures a seamless user experience with its cross-platform capabilities and intuitive interface design. Meanwhile, MongoDB, a powerful NoSQL database, provides flexibility and performance in storing and retrieving critical server configurations and project details.
- Through this integrated platform, users gain comprehensive visibility into their server assets and ongoing projects. Features include real-time monitoring of server statuses, streamlined project management functionalities, and centralized documentation of project timelines and milestones. By consolidating these aspects into a single application, the project aims to enhance operational efficiency, facilitate informed decision-making, and promote collaboration across teams.
- **Server and Project Portfolio Management** represents a commitment to leveraging technology for optimizing IT infrastructure and project workflows. It empowers organizations to streamline operations, reduce overhead costs associated with server management, and improve overall project delivery timelines. Join us on this journey as we redefine how enterprises manage their technological resources and project initiatives in the digital age.

b. Project Requirements:

Hardware:

Processor: Intel – I5.
RAM: 2 GB.
Hard Disk: 256 GB.

Software:

OS: Windows / MAC / Linux.
Nodejs: Nodejs (latest version).
IDE: Visual Studio Code.
Database: MongoDB.

c. Project Modules:

Server- It shows the details of server.

1. Dashboard: It displays the pie charts.

2.ListOfServers: It displays the list of servers in cards.

***ADDSERVER:** To add the new Server.

***Actions:**

1.Edit: It changes the existing data.

2.Delete: clearing the existing data.

Projects – It shows the details of project.

1.ListOfProjects: It displays the list of projects in table format.

***ADD Project:** To add the new Project.

***Actions:**

1.Edit: It changes the existing data.

2.Delete: clearing the existing data.

2.Developers: It displays the developer details in table format.

Domains--

1.ListOfDomains: It displays the list of domains in table format.

***ADD Project:** To add the new Domain.

***Actions:**

1.Edit: It changes the existing data.

2.Delete: clearing the existing data.

d. Project Implementation (Sample Code):

```
import React, { useState, useEffect } from "react";
import { MDBDataTable } from "mdbreact";
import { Row, Col, Card, CardBody, CardTitle, Button, Alert } from "reactstrap";
import { Link } from "react-router-dom";
import Breadcrumbs from "../../components/Common/Breadcrumb";
import "../Tables/datatables.scss";

const Servertable1 = () => {
  const [serverData, setServerData] = useState([]);
  const [loading, setLoading] = useState(true);

  useEffect(() => {
    fetchServerData();
  }, []);

  const fetchServerData = async () => {
    try {
      // Replace this URL with your backend API endpoint to fetch server data
      const response = await fetch("http://localhost:5000/api/get-server");
      const data = await response.json();
      setServerData(data);
      setLoading(false);
    } catch (error) {
      console.error("Error fetching server data:", error);
      setLoading(false);
    }
  };

  const handleEdit = (index) => {
    // You can implement edit functionality here
    console.log("Edit row at index:", index);
  };

  const handleDelete = (index) => {
    // You can implement delete functionality here
    const updatedServerData = [...serverData];
    updatedServerData.splice(index, 1);
    setServerData(updatedServerData);
    console.log("Delete row at index:", index);

  };
```

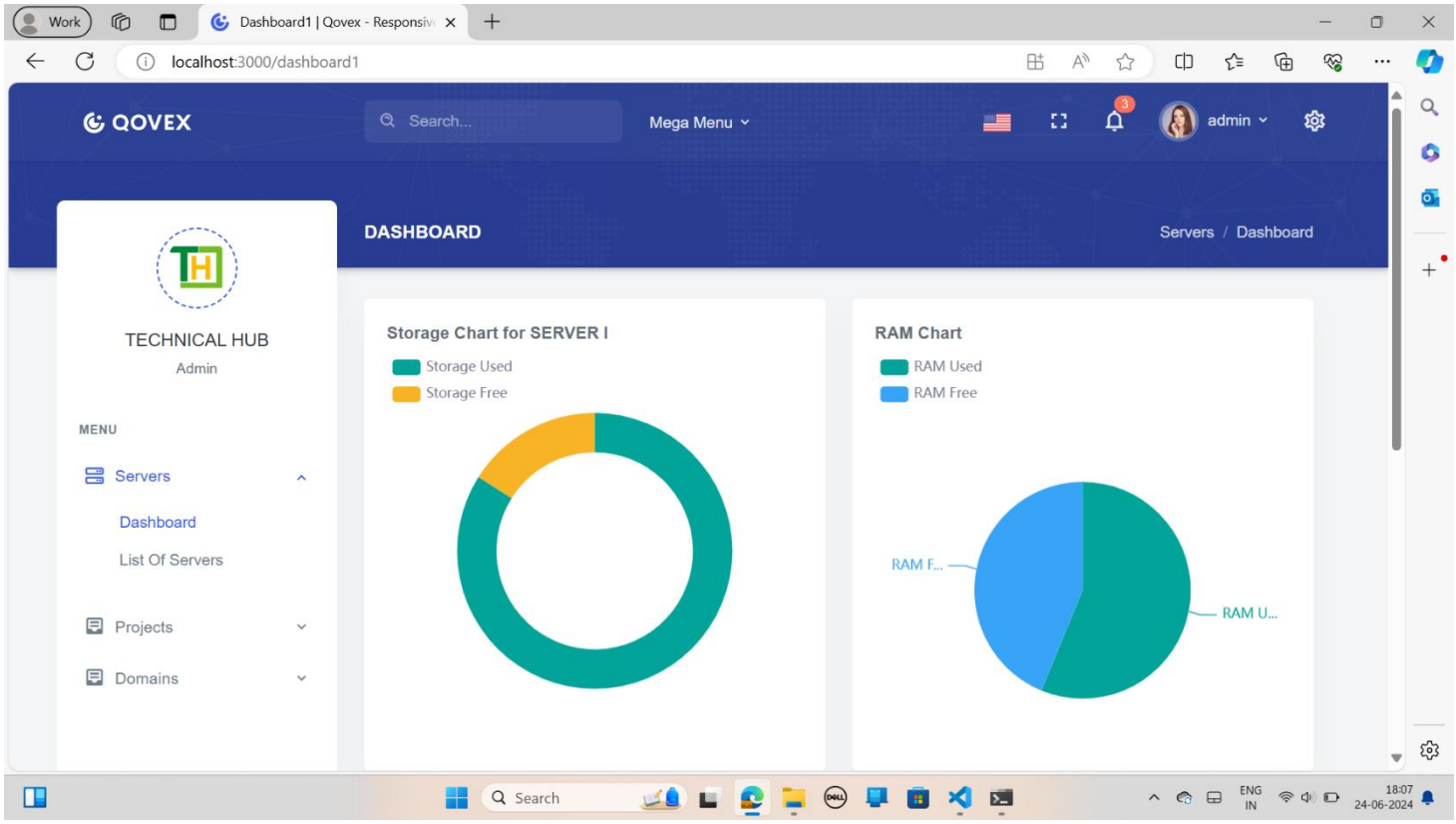
```
const tableData = {
  columns: [
    {
      label: "Description",
      field: "description",
      sort: "asc",
      width: 100,
    },
    {
      label: "Users",
      field: "users",
      sort: "asc",
      width: 100,
    },
    {
      label: "VM Name",
      field: "vm_name",
      sort: "asc",
      width: 100,
    },
    {
      label: "Local Ip",
      field: "local_ip",
      sort: "asc",
      width: 100,
    },
    {
      label: "Public Ip",
      field: "public_ip",
      sort: "asc",
      width: 100,
    },
    {
      label: "CPU",
      field: "cpu",
      sort: "asc",
      width: 100,
    },
    {
      label: "RAM",
      field: "ram",
      sort: "asc",
      width: 100,
    },
    {
      label: "Storage",
      field: "storage",
```

```
      sort: "asc",
      width: 100,
    },
    {
      label: "Actions",
      field: "actions",
      sort: "asc",
      width: 100,
    },

  ],
  rows: serverData.map((server, index) => ({
    description:server.description,
    users:server.users,
    vm_name:server.vm_name,
    local_ip:server.local_ip,
    public_ip:server.public_ip,
    cpu:server.cpu,
    ram:server.ram,
    storage:server.storage,
    actions: (
      <div>
        <Button
          color="primary"
          className="btn btn-primary waves-effect waves-light mr-1"
          onClick={() => handleEdit(index)}
        >
        <i className="bx bxs-edit-alt"></i>
        </Button>
         
        <Button
  color="danger"
  className="btn btn-primary waves-effect waves-light"
  onClick={() => {
      window.confirm("This action will permanently delete the item. Are you sure you want to
proceed?");
      handleDelete(index);
  }}>
  <i className="bx bxs-trash"></i>
</Button>


      </div>
    ),
  })),
 };
```

```
  return (

    <React.Fragment>

      <div className="page-content">
        <Breadcrumbs title="Tables" breadcrumbItem="Data Tables" />
        <Row>
          <Col className="col-12">
            <Card>
              <CardBody>
                <CardTitle>
                  Default Datatable
                  <Link to="/serverform">
                    <Button
                      color="primary"
                      className="ml-1 btn btn-primary waves-effect waves-light"
                      style={{ marginLeft: 825 }}
                    >
                      Add server
                    </Button>
                  </Link>{" "}
                </CardTitle>
                {loading ? (
                  <p>Loading...</p>
                ) : (
                  // <MDBDataTable responsive bordered data={tableData} />
                  <MDBDataTable responsive striped bordered data={tableData} noBottomColumns />
                )}
              </CardBody>
            </Card>
          </Col>
        </Row>

      </div>
    </React.Fragment>
  );
};
export default Servertable1;




import React, { Component } from "react"
import ReactEcharts from "echarts-for-react"
class Ramchart1 extends Component {
  getOption = () => {
    return {
```

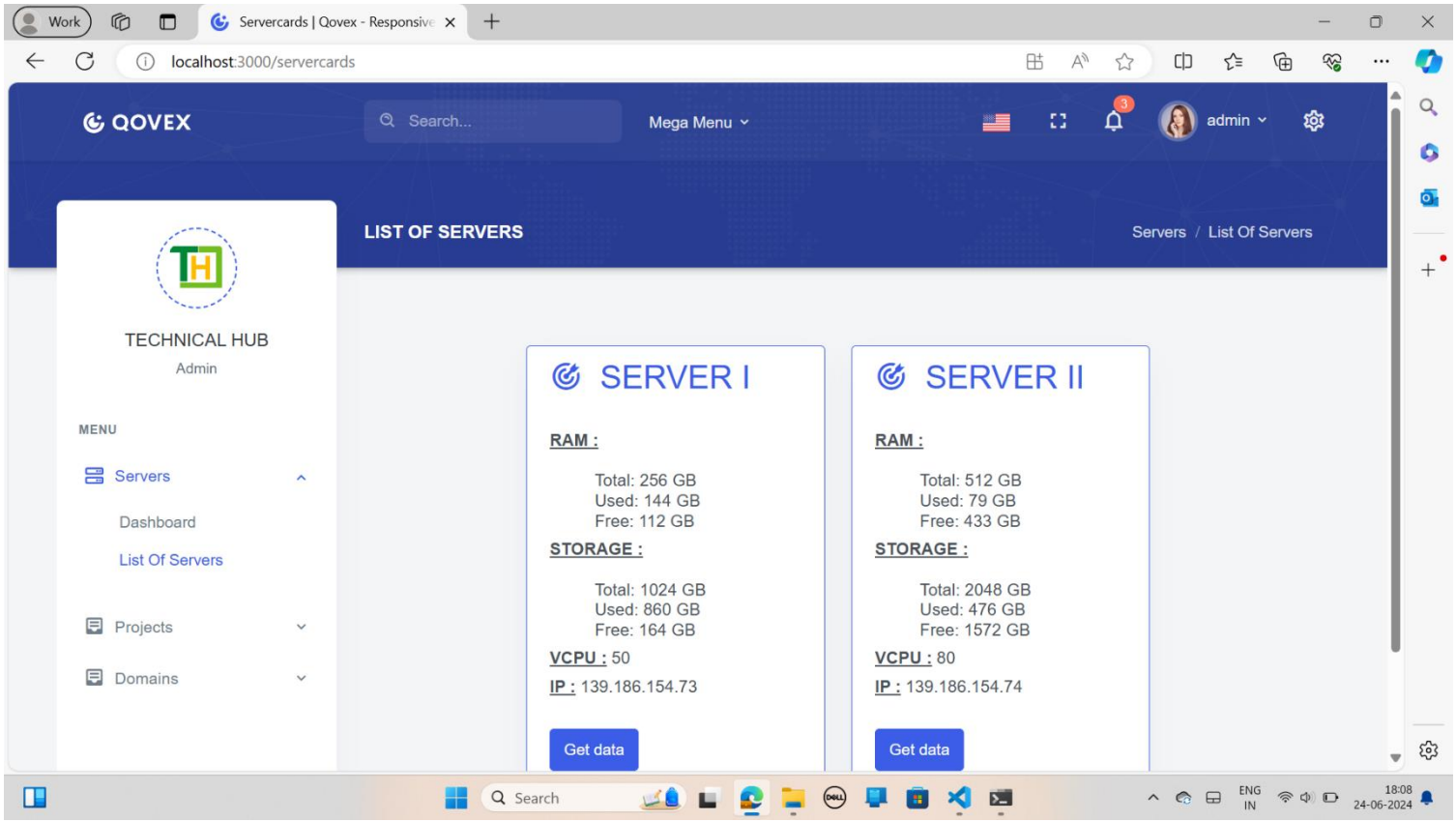
```
      toolbox: {
        show: false,
      },
      tooltip: {
        trigger: "item",
        formatter: "{a} <br/>{b} : {c} ({d}%)",
      },
      legend: {
        orient: "vertical",
        left: "left",
        data: ["Ram Used", "Ram Free"],
        textStyle: {
          color: ["#74788d"],
        },
      },
      color: ["#02a499", "#38a4f8"],
      series: [
        {
          name: "Total sales",
          type: "pie",
          radius: "55%",
          center: ["50%", "60%"],
          data: [
            { value: 335, name: "Ram Used" },
            { value: 310, name: "Ram Free" }
          ],
          itemStyle: {
            emphasis: {
              shadowBlur: 10,
              shadowOffsetX: 0,
              shadowColor: "rgba(0, 0, 0, 0.5)",
            },
          },
        },
      ],
    }
  }
  render() {
    return (
      <React.Fragment>
        <ReactEcharts style={{ height: "350px" }} option={this.getOption()} />
      </React.Fragment>
    )
  }
}
export default Ramchart1
```

e. – Project Outputs:



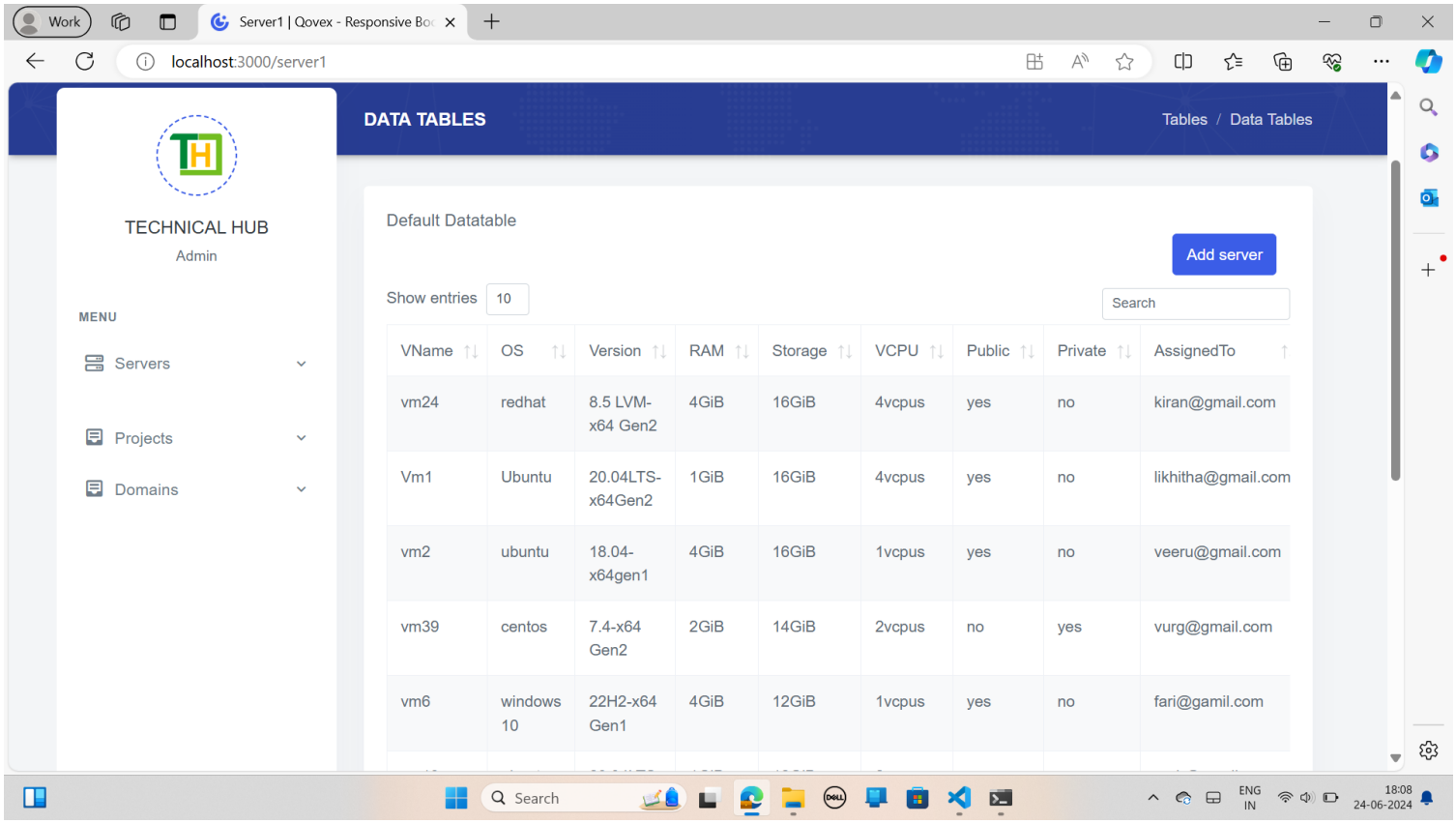
Img 1: Dashboard page

- This Page designed for server dashboard. It collects server information such as Storage, RAM, and more, validates the data, and stores it in a database. If the data is valid and successfully stored, it displays the pie diagrams as shown in above image.



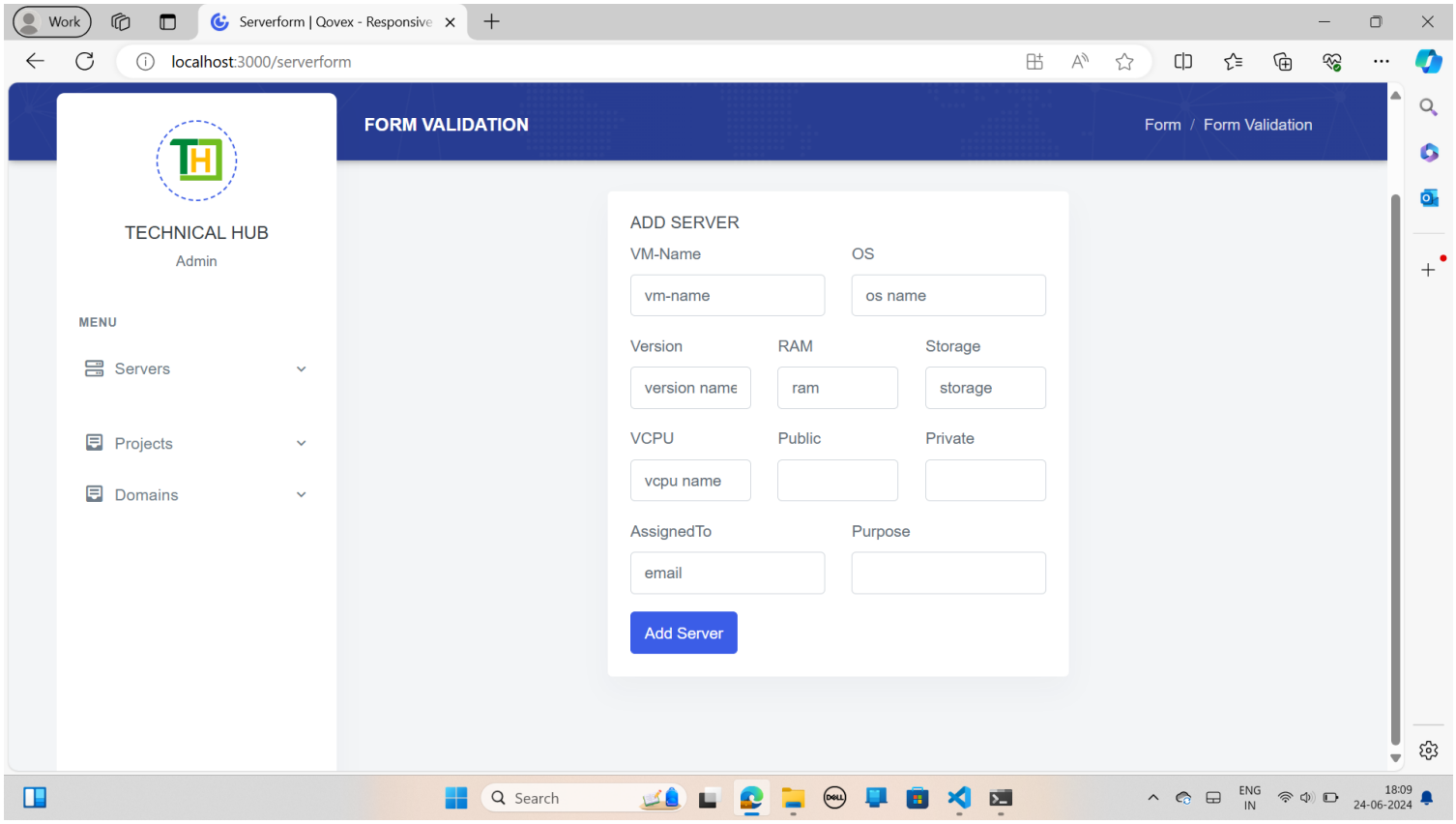
Img 2: ListOfServer page

- This Page designed for servers information. It shows server information such as RAM, STORAGE, VCPU and IP, validates the data, and stores it in a database. The entire information of servers was displayed in cards as shown in above image.



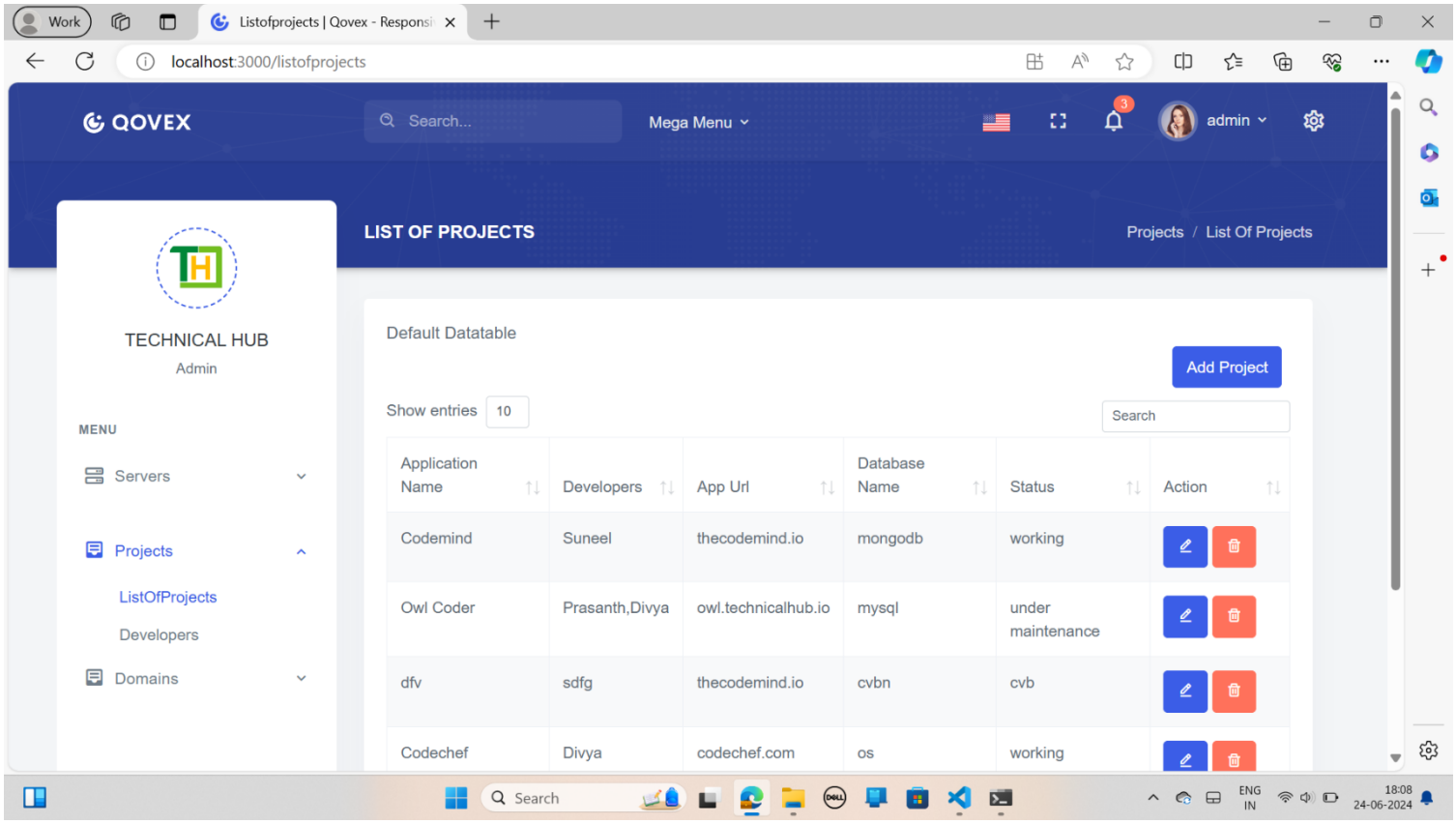
Img 3: Server page

- This Page designed to display Servers information. It shows servers information such as RAM, STORAGE, VCPU, IP, Public and private. It shows the information in table format as shown in above image.



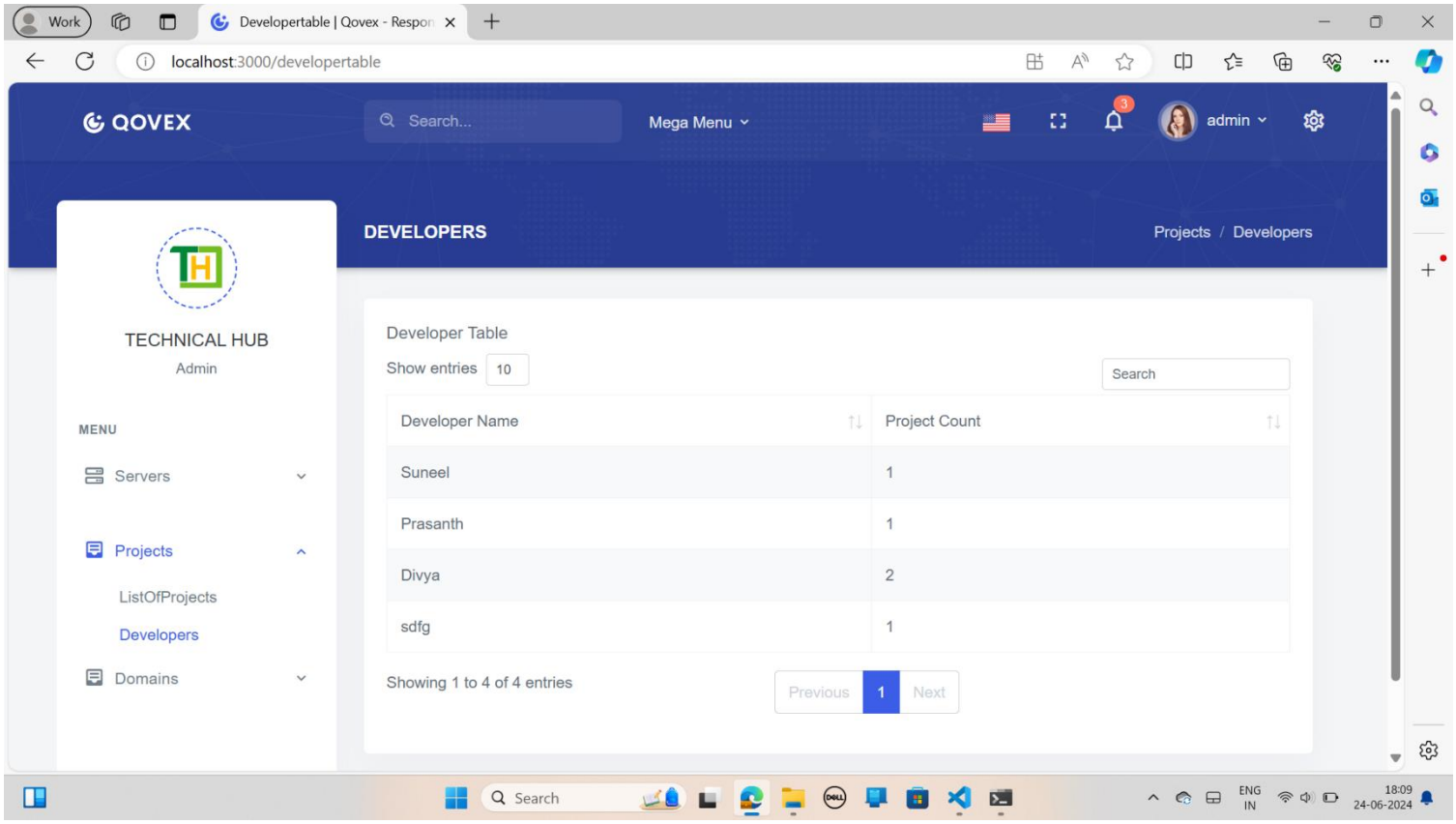
Img 4: ADD SERVER page

- This Page designed to add the new server to the database. It displays the form with fields such as RAM, STORAGE, VCPU, IP, Public and private. By clicking the add server the information entered in fields will saved to the database.



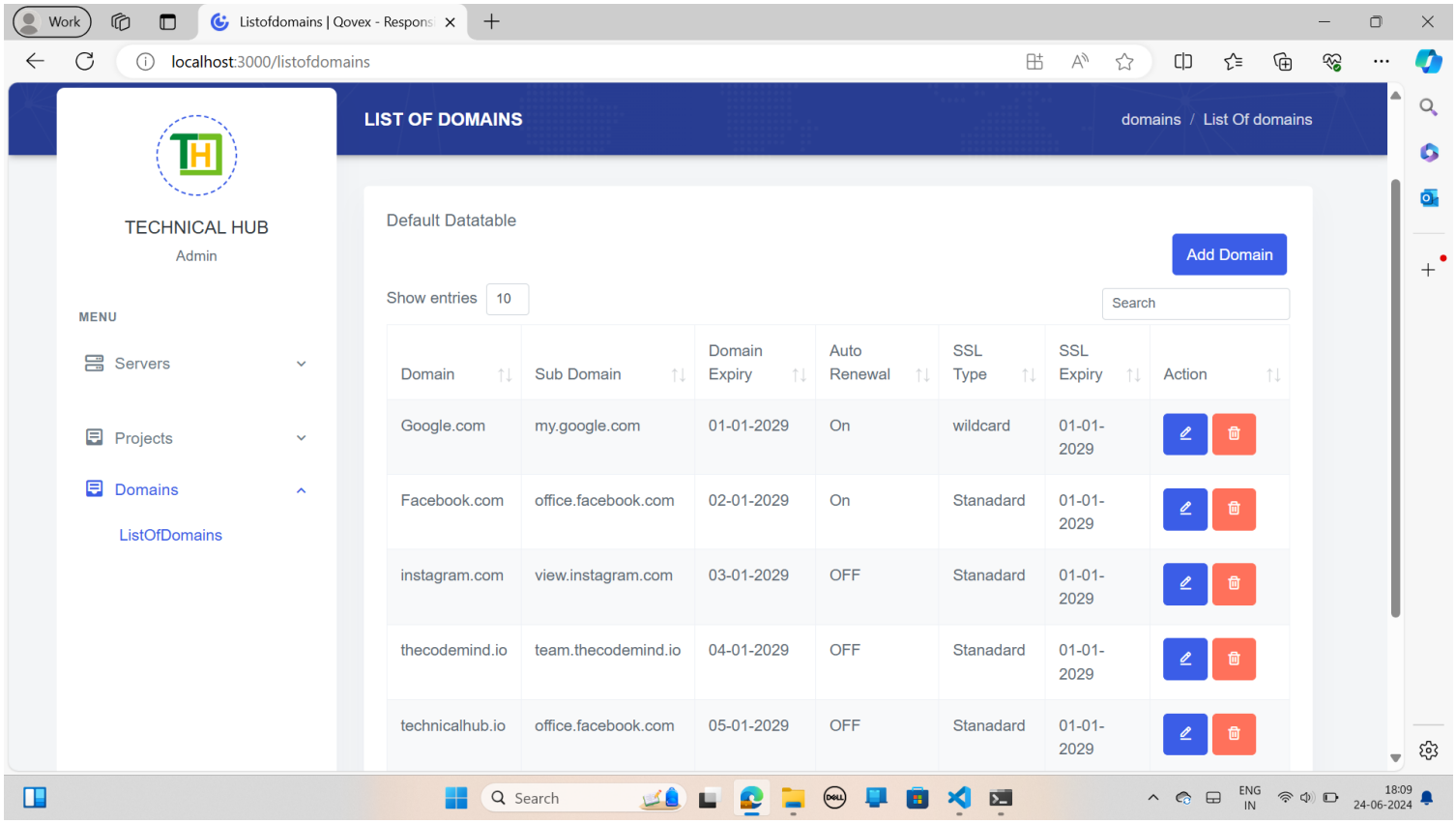
Img 5: ListOfProjects page

- This Page designed to display the project information. It shows projects information such as Application Name, Developer, App URL, Database Name, status and Action. It shows the information in table format as shown in above image. In Action it contains two options edit and delete.



Img 6: Developers page

- This Page designed to display the developer's information. It shows developers information such as Developer Name, and project count.



Img 7: ListOfDomains page

- This Page designed to display the domain information. It shows the information in table format as shown in above image. In Action it contains two options edit and delete.

DEPLOYMENT PROCESS

Deploying a dynamic project on a virtual machine (VM) involves several steps, including setting up the VM, configuring the environment, and deploying the application.

1. Set Up the Virtual Machine

Choose a Cloud Provider:

- Select a cloud provider like AWS, Azure, Google Cloud, or DigitalOcean.
- Create an account and set up billing.

Create a VM Instance:

- Choose an operating system (e.g., Ubuntu, CentOS).
- Select the instance type (CPU, memory) based on your project's requirements.
- Configure the instance (network, security groups, SSH keys).

2. Connect to the VM

SSH into the VM:

- Obtain the public IP address of the VM.
- Use an SSH client (e.g., Terminal, PuTTY) to connect:

```
sh
Copy code
ssh username@public_ip
```

3. Set Up the Environment

Update and Install Dependencies:

- Update package lists and upgrade installed packages:

```
sh
Copy code
sudo apt update && sudo apt upgrade -y
```

4. Install git
- apt install git

5. clone the project git link
- git clone https://github.com/Luckythedevil/project.git

6. connect the backend server

- npm i
- npm start
- npm i --legacy-peer-deps
- pm2 start "npm start" --name backend

7. connect the frontend server

- npm i
- npm start
- npm i --legacy-peer-deps
- pm2 start "npm start" --name frontend

8. Replace the localhost with the IP address of the server name

9. Install the necessary software
    - npm install pm2 -g

10. start the frontend and backend
    - pm2 start "npm start" --name frontend
    - pm2 start "npm start" --name backend

11.Change port number in the server with same port number of frontend and backend

12.copy the server IP address and paste it on chrome

This is the steps and commands for the dynamic project
Deploying a dynamic project on a virtual machine involves setting up the VM, configuring the necessary environment and dependencies, deploying the application, ensuring security, and setting up monitoring and maintenance. Each step may vary slightly depending on your

specific project requirements and the technologies you are using

12. STUDENT SELF EVALUATION SHEET

Student Self Evaluation of the Short-Term Internship

Student Name:		**Registration No:**
Term of Internship:	**From:**	**To :**
Date of Evaluation:		
Organization Name & Address:		

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	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan 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 done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	**OVERALL PERFORMANCE**	**1**	**2**	**3**	**4**	**5**

Date: **Signature of the Student**

13.PHOTOS & VIDEO LINKS

YouTube MongoDB Tutorial Link:
https://www.youtube.com/watch?time_continue=10&v=c2M-rlkkT5o&embeds_referring_euri=https%3A%2F%2Fwww.google.com%2Fsearch%3Fq%3DMongoDB%26rlz%3D1C1VDKB_enIN1064I N1064

Git Hub Repository Link:
https://github.com/21MH1A05A6/ProjectSpace