INTERNSHIP PROGRESS REPORT

Submitted in the partial fulfilment for the award of the degree of

BACHELOR OF ENGINEERING

IN

CSE_IoT

Submitted by:

Rishabh Anand

19BCS4525

AT

HIGH RADIUS CORPORATION

Under the Supervision of:

PIYUSH SAMANT PROJECT LEADER

>

CHANDIGARH UNIVERSITY

Discover. Learn. Empower.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

APEX INSTITUE OF TECHNOLOGY

CHANDIGARH UNIVERSITY, GHARUAN,

MOHALI - 140413, PUNJAB

MAY 2022

MONTHLY INTERNSHIP REPORT

The purpose of the Internship Progress Report is to evaluate the actual progress of the internship. It is one way to update university on your activities and progress during the internship period.

The very first page of the report needs to carry the following information:

A. Internship Contact Information

Student Name	Rishabh Anand
Student UID	19BCS4525
Student Email (@cuchd.in)	cse.19BCS4525@gmail.com
Student Contact No.	9123415629
Internship Organization Name	High Radius Corporation
Organization Address	High Radius Corporation Westlake 4 building 200 Westlake park Blvd. 8th floor Houston, TX 77079
Internship Supervisor	Kajal Kumari and Kuldeep Singh
Internship Supervisor Phone	
Internship Supervisor Email	
Report period (start date)	22-03-2022
Report period (end date)	22-04-2022

B. Distribution of hours:

Orientation **- 7-8hrs/week**

Observing **– 0.5hr/day**

Meetings (e.g. staffing, working with the team, etc) **- 6hrs/day**

Lectures, Seminars, Conferences - **10hrs/day**

Assessment **- 4hrs/day**

Planning (activity analysis, goals and objectives, etc) **4-5hrs/day**

Studying/Researching **- 6hrs/day**

C. Implementation (in *hours* which so ever is applicable. Otherwise mention Not Applicable):

a. Leadership **3hrs/week**

b. Counselling **NA**

c. Supervision **1hr/day**

d. Evaluation **1hr/week**

e. Documentation **NA**

f. Discharge/Transition Plans **NA**

g. Other (Please specify) **NA**

< **End of Page – 1 of report** >

INTRODUCTION

The internship was commenced on 27th January 2022 and because of the pandemic situation the internship was taken virtually via Zoom platform. Talking about the company HighRadius Corporation, it was established in 2006 by Sashi Narahari and the location is Houston.
HighRadius is a Fintech enterprise Software-as-a-Service (SaaS) company that leverages Artificial Intelligence-based Autonomous Systems to help 600+ industry-leading companies automate their Accounts Receivable and Treasury processes.
It uses Data-driven AI software platform to lower DSO, optimize working capital, fast-track financial close and improve productivity.
The Leading partners of HighRadius Corporation are Sony, herseys, Uber, Warner Brothers, Hindustan Unilever, Jhonson&Jhonson, dell and many more.
Some achievements of HRC are: -

1. HighRadius is Named to 2021 CB Insights Fintech 250 List of Top Fintech Startups for the Second Consecutive Year.
2. HighRadius Named to 2021 Forbes Cloud 100 List for the Second Straight Year.
3. HighRadius Raises $300M Series C at $3.1 Billion Valuation to Accelerate Growth in Order-to-Cash and Treasury Markets.
4. HighRadius Named an IDC Market Scape Leader For Accounts Receivable Automation Software for Large and Midsized Businesses Second Time in a Row.

HighRadius goes with the values that efficiency and productivity enhancements are central to the value HighRadius provides to our customers. Regardless of what ERP, Accounts Receivable or Treasury Management system you are using, our products automate manually-intensive tasks, streamline communication, and allow standardization of processes to drive best practices into your receivables and treasury processes.

We empower our customers to be able to work more accurately and efficiently, forecast and manage cash, get paid faster, and improve key metrics like Days Sales Outstanding (DSO) and improve working capital availability.

And it goes with a slogan “Go Gritty or Go home”.

ACCOMPLISHMENTS AND WORK DONE

The tenure of the internship is of 11 weeks wherein I have to build an AI Enabled Fintech B2B Invoice Management Application.

BRIEF ABOUT THE PROJECT

The B2B world operates differently from the B2C or C2C world. Businesses work with other businesses on credit. When a buyer business orders goods from the seller business, the seller business issues an invoice for the same. This invoice for the goods contains various information like the details of the goods purchased and when it should be paid. This is known in accounting terminology as "Accounts Receivable".

Seller business interacts with various businesses and sells goods to all of them at various times. Hence, the seller business needs to keep track of the total amount it owes from all the buyers. This involves keeping track of all invoices from all the buyers. Each invoice will have various important fields like a payment due date, invoice date, invoice amount, baseline date etc.

The buyer business needs to clear its amount due before the due date. However, in real-world scenarios, the invoices are not always cleared i.e. paid in full amount by the due date. The date on which a customer clears the payment for an invoice is called the payment date.

TASKS GIVEN

The objective of the Web Application Development internship project is:

- To build a Full-stack Invoice Management Application using ReactJs, JDBC, Java, Servlets.
- Build a responsive Receivables Dashboard.
- Visualize Data in the form of grids.
- Visualize Data in the form of graphs.
- Perform Searching operations on the invoices.
- Add & Edit data in the editable fields of the grid.
- Delete data of selected rows in predefined templates.

1. REACTJS AND WEB APP

React, sometimes referred to as a frontend JavaScript framework, is a JavaScript library created by Facebook.
React is a tool for building UI components.
The main objective of ReactJS is to develop User Interfaces (UI) that improves the speed of the apps. It uses virtual DOM (JavaScript object), which improves the performance of the app. The JavaScript virtual DOM is faster than the regular DOM. We can use ReactJS on the client and server-side as well as with other frameworks. It uses component and data patterns that improve readability and helps to maintain larger apps.

2. Why Should we use ReactJs?

1. Simplicity

ReactJS is just simpler to grasp right away. The component-based approach, well-defined lifecycle, and use of just plain JavaScript make React very simple to learn, build a professional web (and mobile applications), and support it. React uses a special syntax called JSX which allows you to mix HTML with JavaScript. This is not a requirement; Developer can still write in plain JavaScript but JSX is much easier to use.

2. Easy to learn

Anyone with a basic previous knowledge in programming can easily understand React while Angular and Ember are referred to as 'Domain-specific Language', implying that it is difficult to learn them. To react, you just need basic knowledge of CSS and HTML.

3. Native Approach

React can be used to create mobile applications (React Native). And React is a diehard fan of reusability, meaning extensive code reusability is supported. So at the same time, we can make IOS, Android and Web applications.

4. Data Binding

React uses one-way data binding and an application architecture called Flux controls the flow of data to components through one control point – the dispatcher. It's easier to debug self-contained components of large ReactJS apps.

3. React Components.

Class Components: -

A class component must include the extends React. Components statement. This statement creates an inheritance to React. Component, and gives your component access to React. Component's functions.

The component also requires a render () method, this method returns HTML.

Function Components: -

A Function component also returns HTML, and behaves much the same way as a Class component, but Function components can be written using much less code, are easier to understand, and will be preferred in this tutorial.

Props: -

Props are arguments passed into React components.

Props are passed to components via HTML attributes.

Props are known as properties.

WHAT IS A HOOK?

Hooks allow function components to have access to state and other React features. Because of this, class components are generally no longer needed.

Hooks allow us to "hook" into React features such as state and lifecycle methods.

There are 3 rules for hooks:

- Hooks can only be called inside React function components.
- Hooks can only be called at the top level of a component.
- Hooks cannot be conditional

1. **useState: -**

The React useState Hook allows us to track state in a function component.

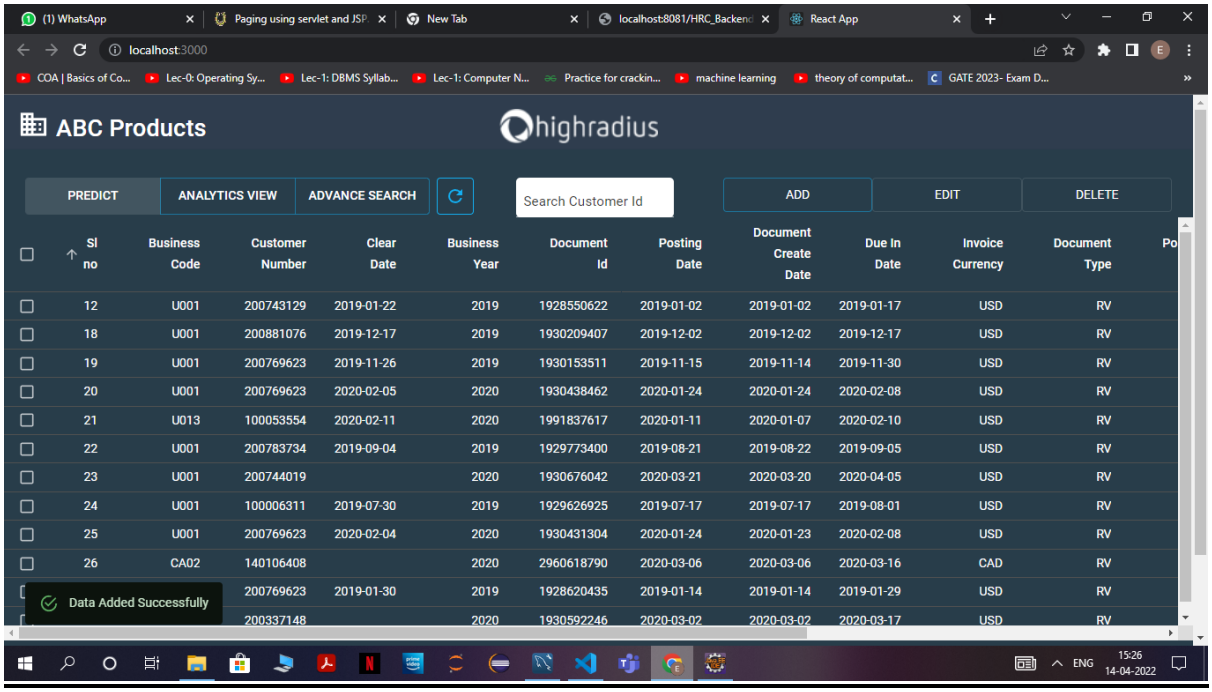
State generally refers to data or properties that need to be tracking in an application.

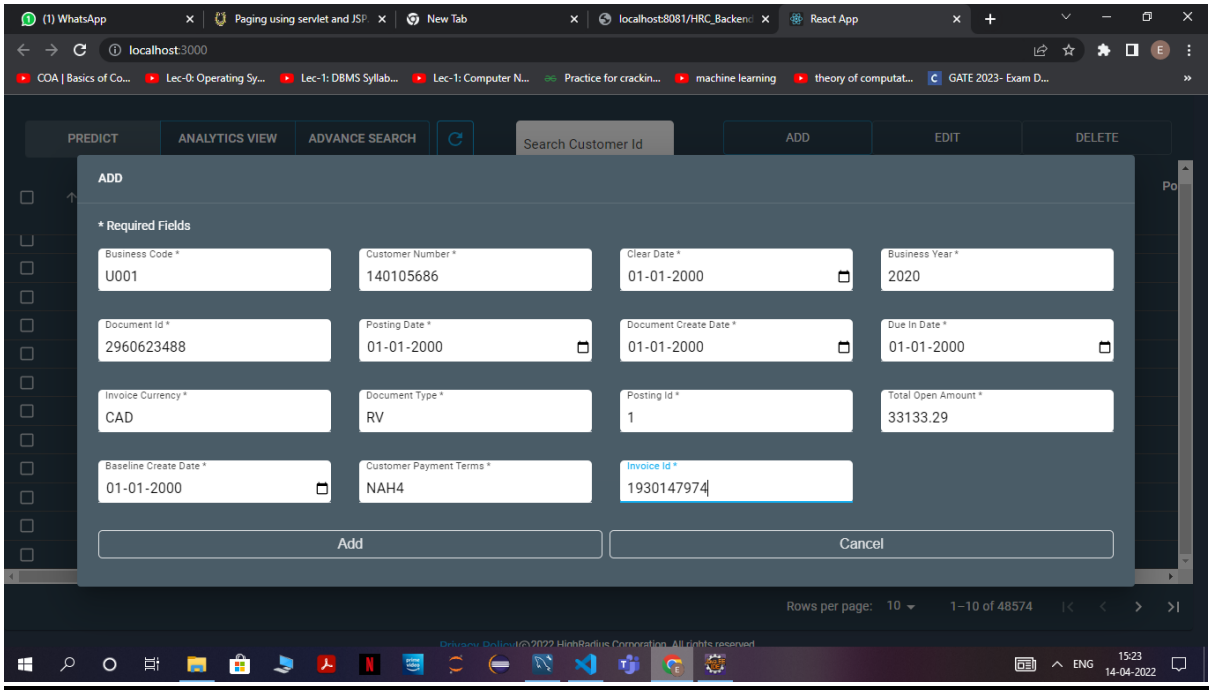
2. **useEffect: -**

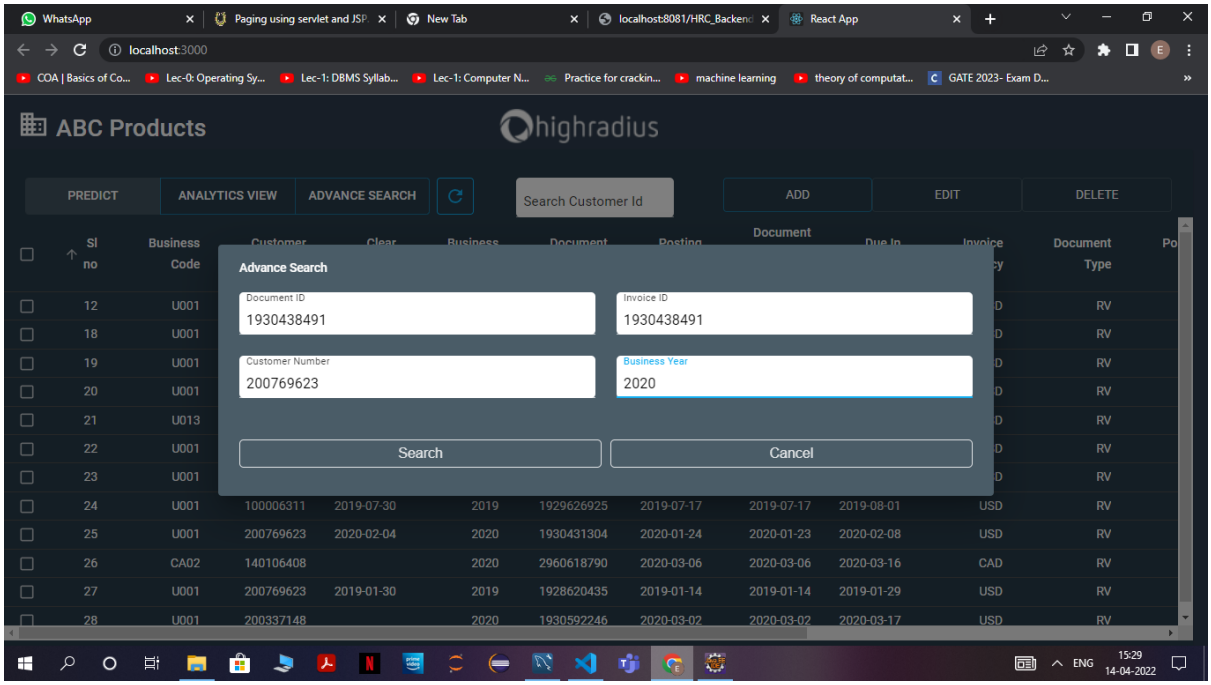
The useEffect Hook allows you to perform side effects in your components.

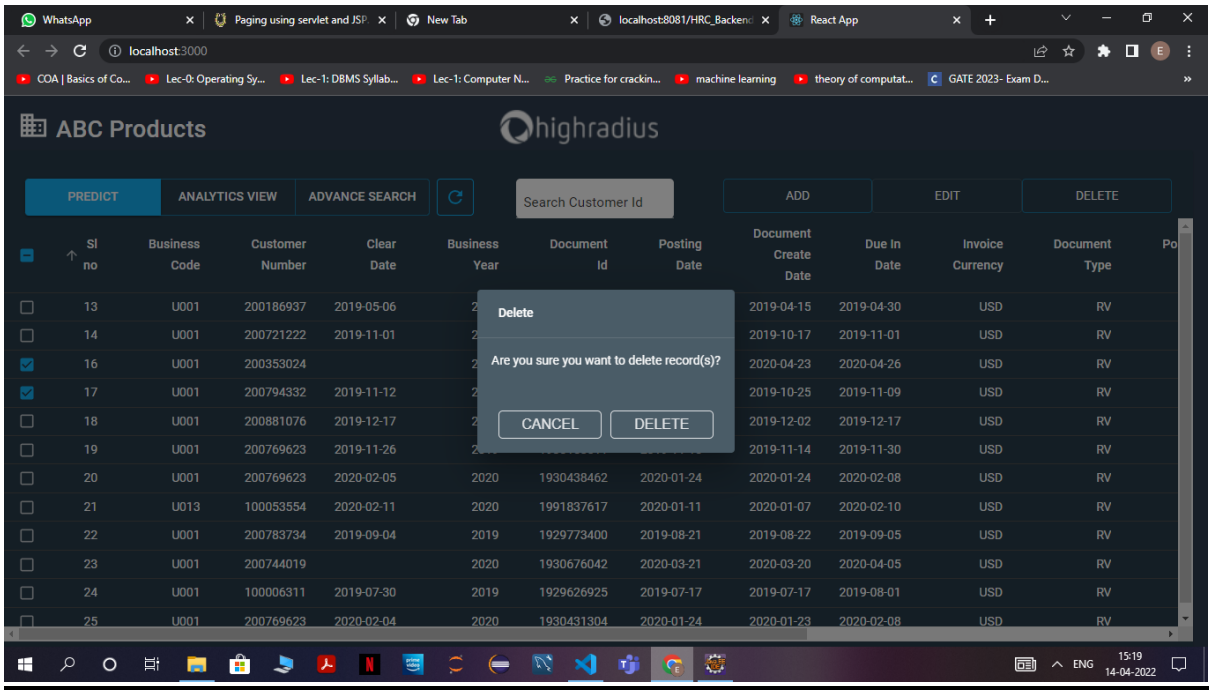
Some examples of side effects are: fetching data, directly updating the DOM, and timers.
useEffect accepts two arguments. The second argument is optional.
useEffect(<function>, <dependency>)

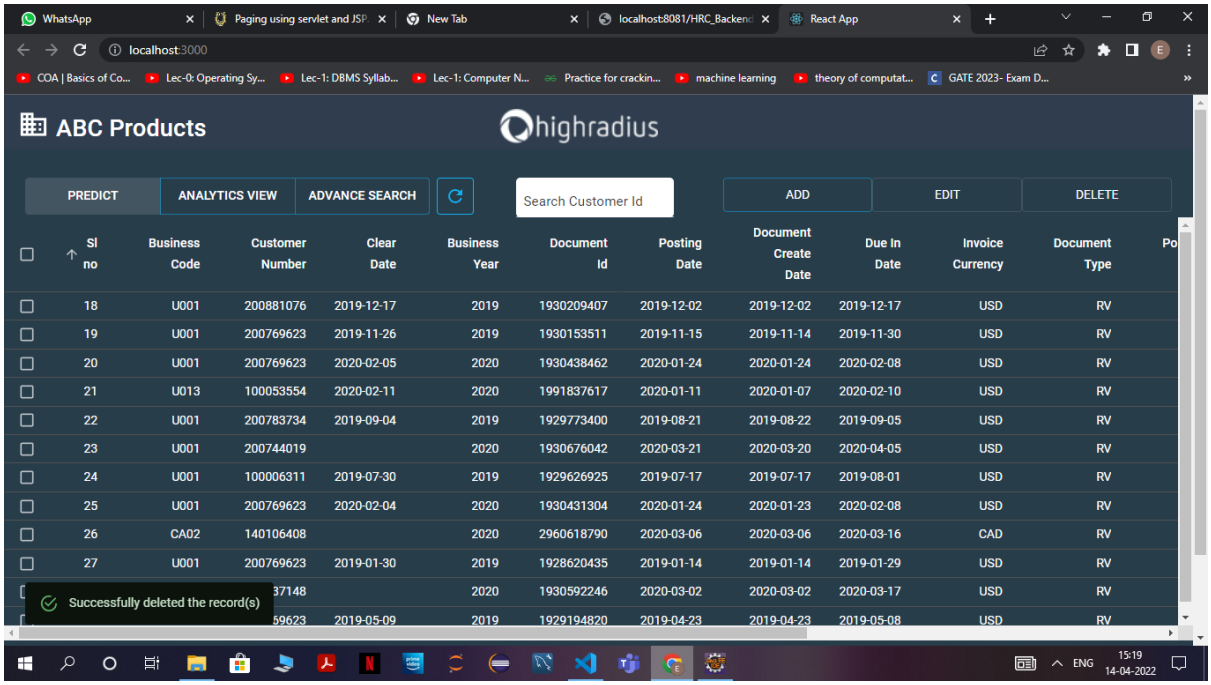
SNAPSHOTS OF WORK DONE

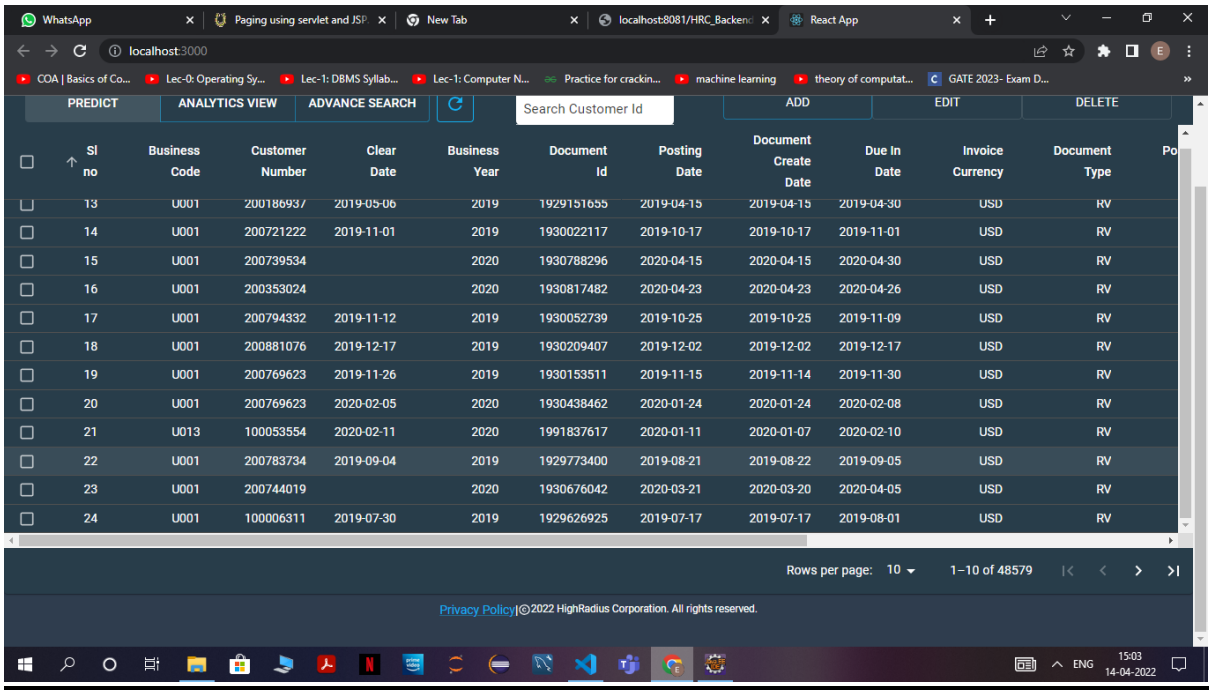


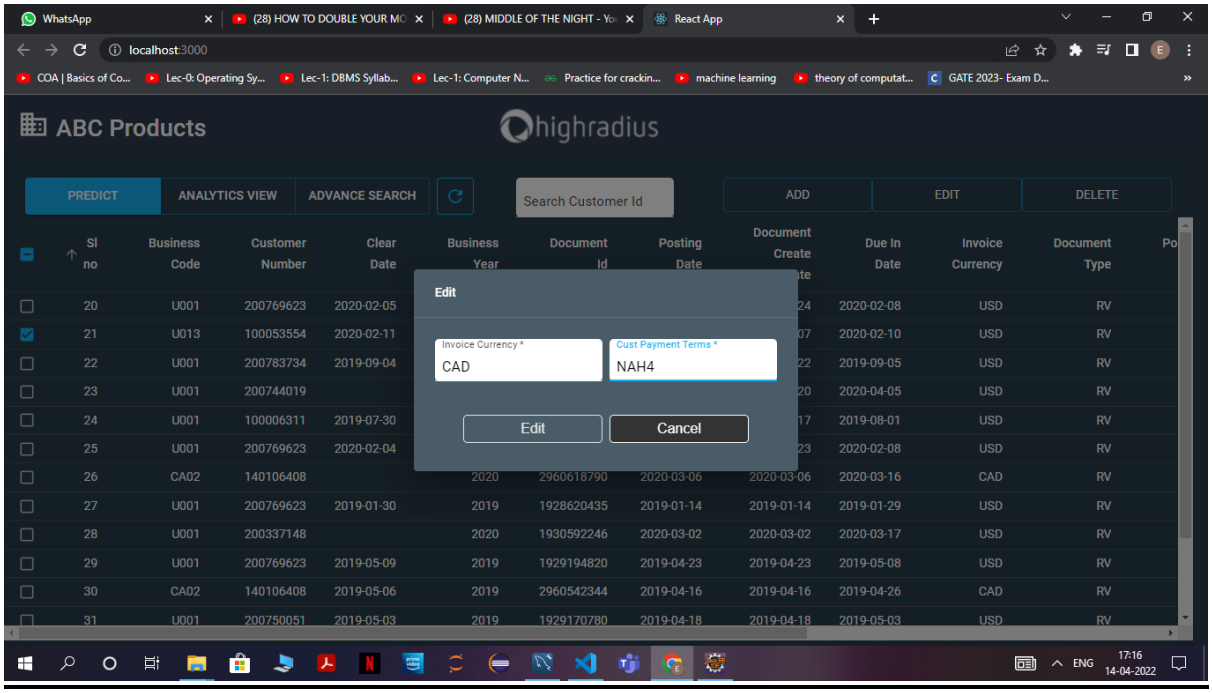


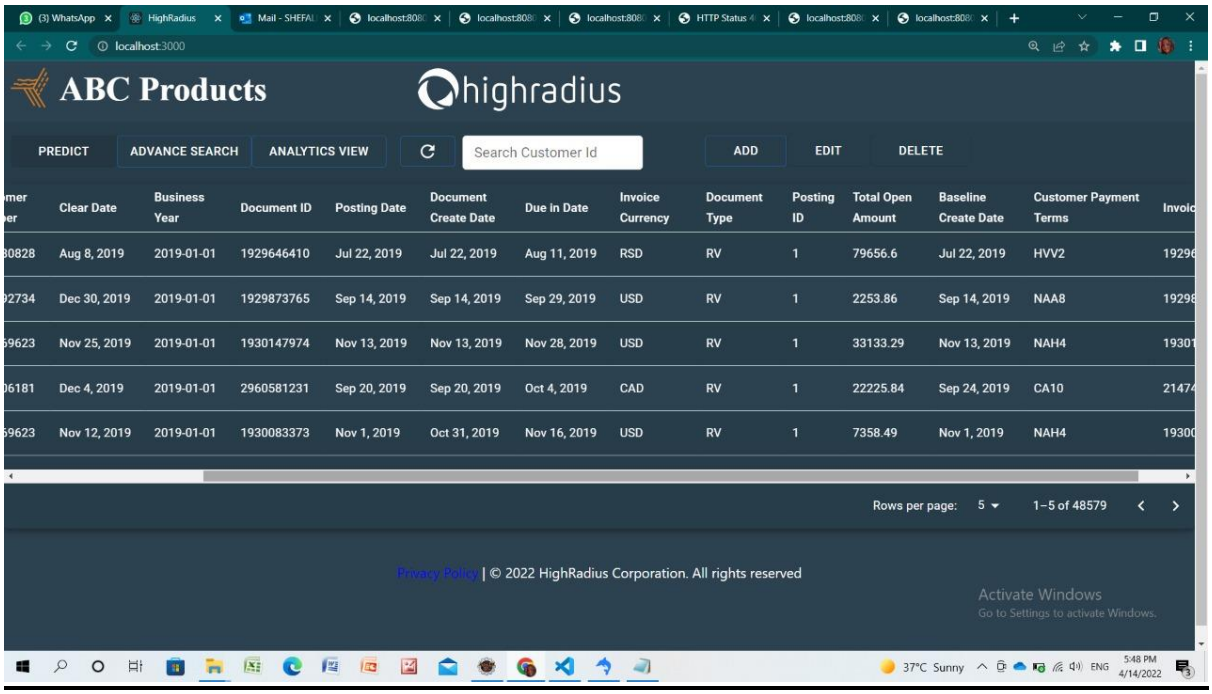

ABC Products
highradius
PREDICT
ANALYTICS VIEW
ADVANCE SEARCH
Search Customer Id
ADD
EDIT
DELETE
Advance Search
Document ID
1930438491
Invoice ID
1930438491
Customer Number
200769623
Business Year
2020
Search
Cancel

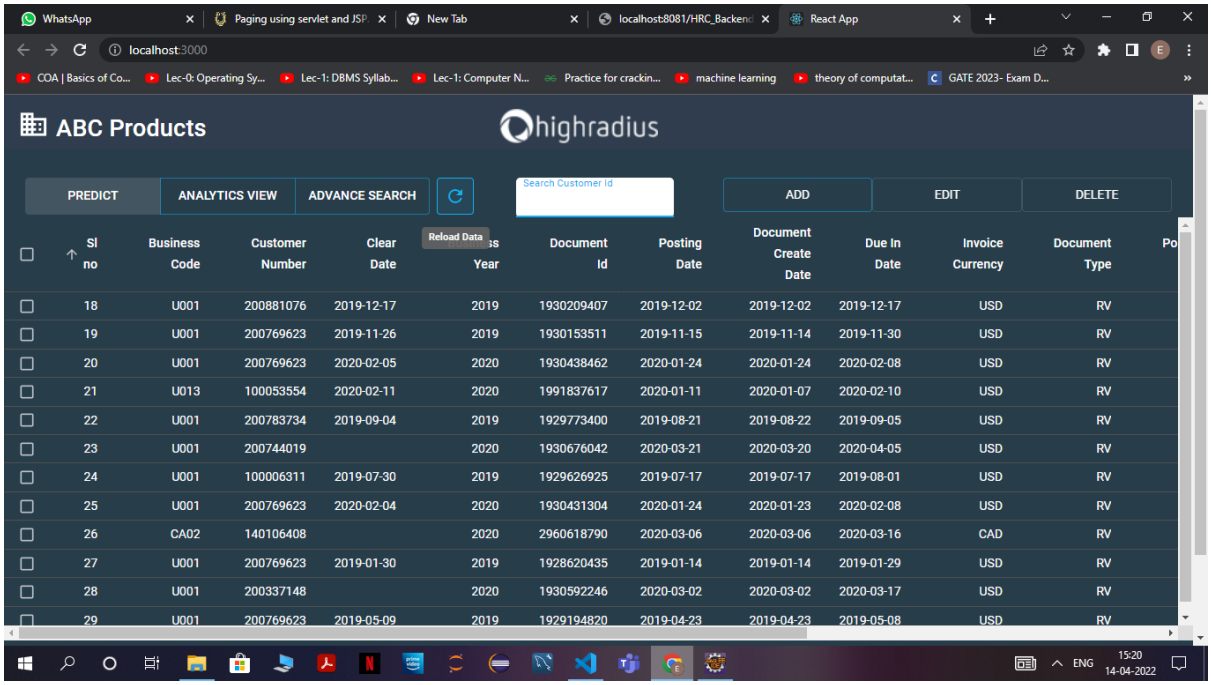

ABC Products
highradius
PREDICT
ANALYTICS VIEW
ADVANCE SEARCH
Search Customer Id
ADD
EDIT
DELETE
Delete
Are you sure you want to delete record(s)?
CANCEL
DELETE

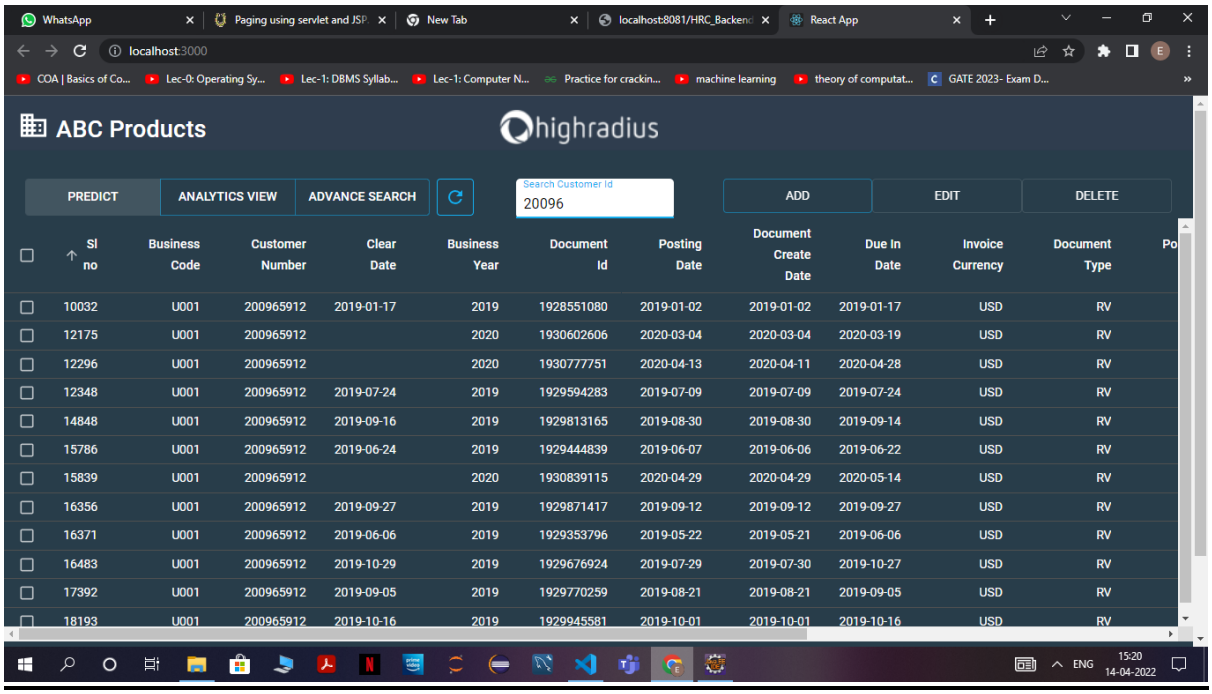

WhatsApp
Paging using servlet and JSP
New Tab
localhost:8081/HRC_Backend
React App
localhost:3000
ABC Products
highradius
PREDICT
ANALYTICS VIEW
ADVANCE SEARCH
Search Customer Id
ADD
EDIT
DELETE
Sl no
Business Code
Customer Number
Clear Date
Business Year
Document Id
Posting Date
Document Create Date
Due In Date
Invoice Currency
Document Type
18 U001 200881076 2019-12-17 2019 1930209407 2019-12-02 2019-12-02 2019-12-17 USD RV
19 U001 200769623 2019-11-26 2019 1930153511 2019-11-15 2019-11-14 2019-11-30 USD RV
20 U001 200769623 2020-02-05 2020 1930438462 2020-01-24 2020-01-24 2020-02-08 USD RV
21 U013 100053554 2020-02-11 2020 1991837617 2020-01-11 2020-01-07 2020-02-10 USD RV
22 U001 200783734 2019-09-04 2019 1929773400 2019-08-21 2019-08-22 2019-09-05 USD RV
23 U001 200744019 2020 1930676042 2020-03-21 2020-03-20 2020-04-05 USD RV
24 U001 100006311 2019-07-30 2019 1929626925 2019-07-17 2019-07-17 2019-08-01 USD RV
25 U001 200769623 2020-02-04 2020 1930431304 2020-01-24 2020-01-23 2020-02-08 USD RV
26 CA02 140106408 2020 2960618790 2020-03-06 2020-03-06 2020-03-16 CAD RV
27 U001 200769623 2019-01-30 2019 1928620435 2019-01-14 2019-01-14 2019-01-29 USD RV
Successfully deleted the record(s)
2020 1930592246 2020-03-02 2020-03-02 2020-03-17 USD RV
2019-05-09 2019 1929194820 2019-04-23 2019-04-23 2019-05-08 USD RV
ENG 15:19 14-04-2022

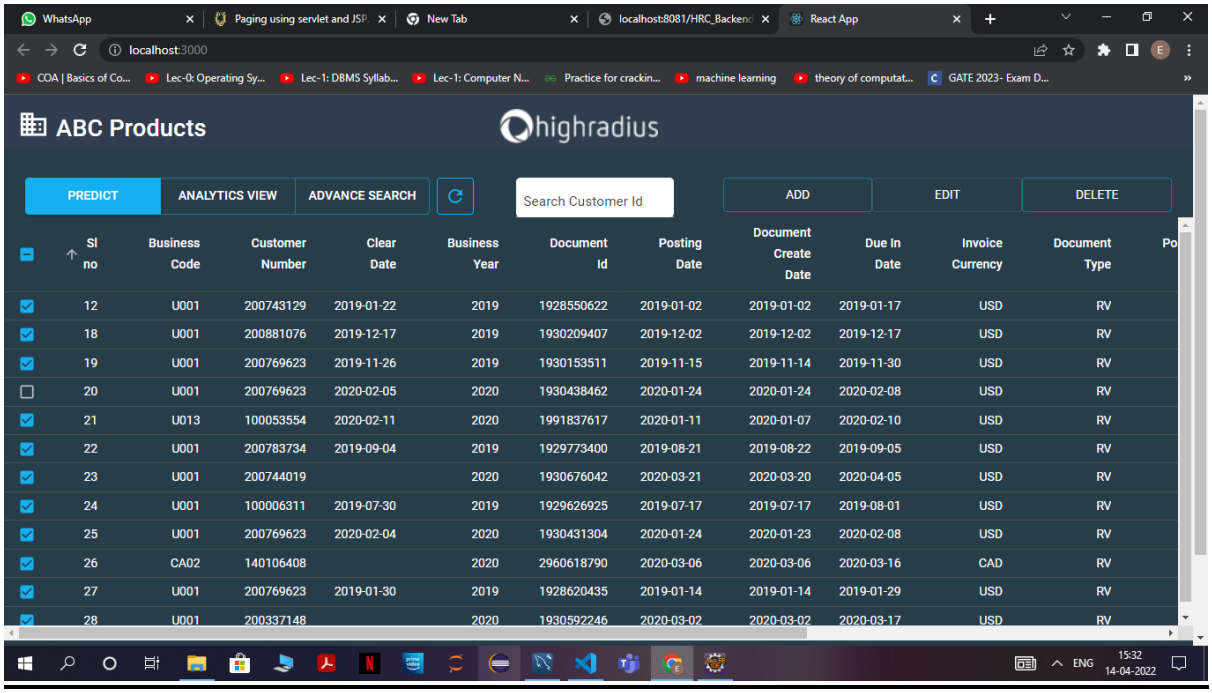

WhatsApp
Paging using servlet and JSP
New Tab
localhost:8081/HRC_Backend
React App
localhost:3000
PREDICT
ANALYTICS VIEW
ADVANCE SEARCH
Search Customer Id
ADD
EDIT
DELETE
Sl no
Business Code
Customer Number
Clear Date
Business Year
Document Id
Posting Date
Document Create Date
Due In Date
Invoice Currency
Document Type
13 U001 200186937 2019-05-06 2019 1929151655 2019-04-15 2019-04-15 2019-04-30 USD RV
14 U001 200721222 2019-11-01 2019 1930022117 2019-10-17 2019-10-17 2019-11-01 USD RV
15 U001 200739534 2020 1930788296 2020-04-15 2020-04-15 2020-04-30 USD RV
16 U001 200353024 2020 1930817482 2020-04-23 2020-04-23 2020-04-26 USD RV
17 U001 200794332 2019-11-12 2019 1930052739 2019-10-25 2019-10-25 2019-11-09 USD RV
18 U001 200881076 2019-12-17 2019 1930209407 2019-12-02 2019-12-02 2019-12-17 USD RV
19 U001 200769623 2019-11-26 2019 1930153511 2019-11-15 2019-11-14 2019-11-30 USD RV
20 U001 200769623 2020-02-05 2020 1930438462 2020-01-24 2020-01-24 2020-02-08 USD RV
21 U013 100053554 2020-02-11 2020 1991837617 2020-01-11 2020-01-07 2020-02-10 USD RV
22 U001 200783734 2019-09-04 2019 1929773400 2019-08-21 2019-08-22 2019-09-05 USD RV
23 U001 200744019 2020 1930676042 2020-03-21 2020-03-20 2020-04-05 USD RV
24 U001 100006311 2019-07-30 2019 1929626925 2019-07-17 2019-07-17 2019-08-01 USD RV
Rows per page: 10
1–10 of 48579
Privacy Policy | ©2022 HighRadius Corporation. All rights reserved.
ENG 15:03 14-04-2022

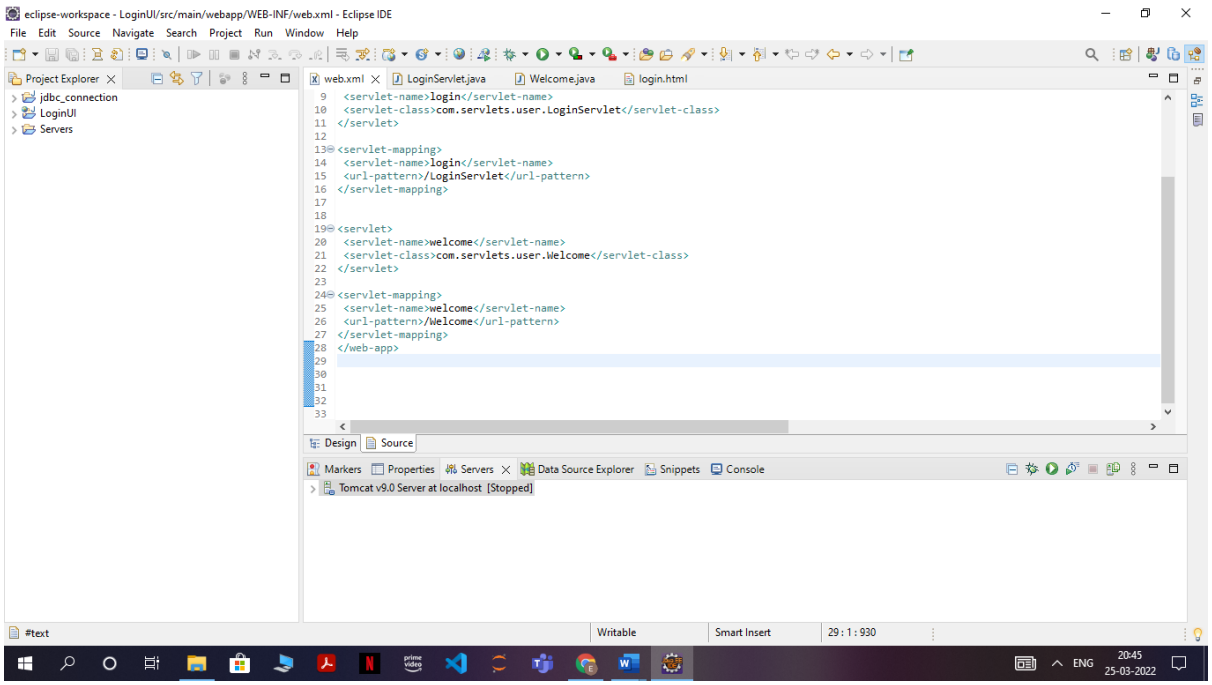

ABC Products
highradius
PREDICT
ANALYTICS VIEW
ADVANCE SEARCH
Search Customer Id
ADD
EDIT
DELETE
Edit
Invoice Currency *
CAD
Cust Payment Terms *
NAH4
Edit
Cancel

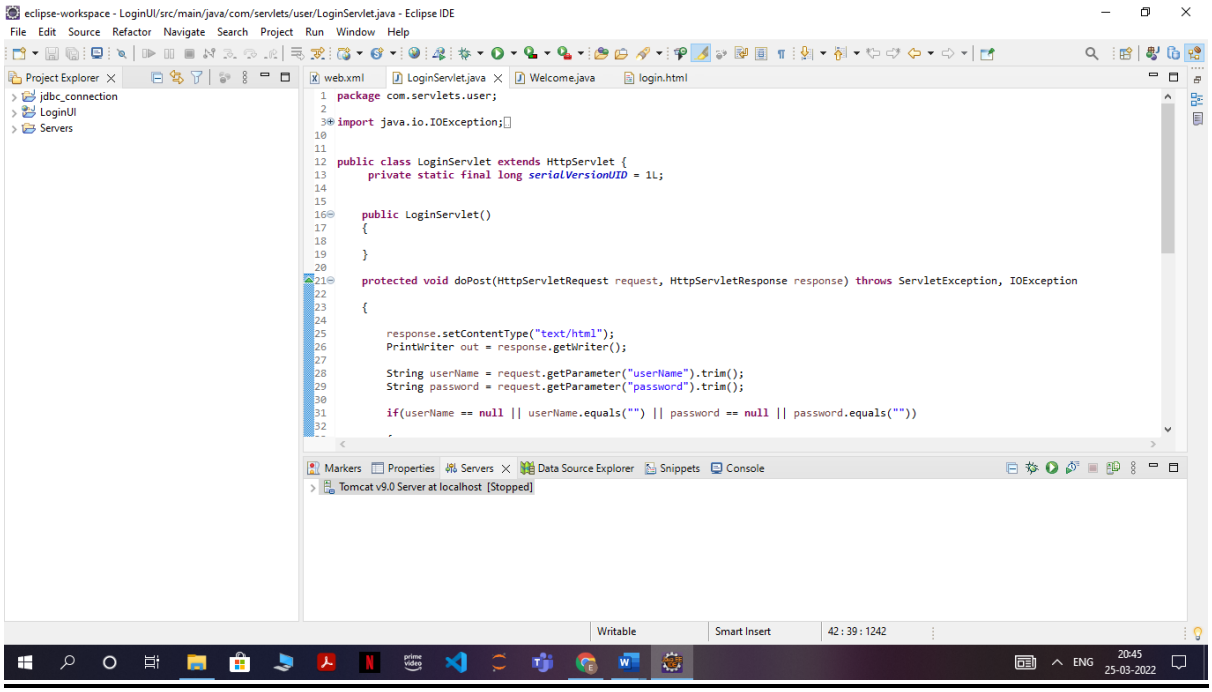

ABC Products
highradius
PREDICT
ADVANCE SEARCH
ANALYTICS VIEW
Search Customer Id
ADD
EDIT
DELETE
Clear Date
Business Year
Document ID
Posting Date
Document Create Date
Due in Date
Invoice Currency
Document Type
Posting ID
Total Open Amount
Baseline Create Date
Customer Payment Terms
Aug 8, 2019
2019-01-01
1929646410
Jul 22, 2019
Jul 22, 2019
Aug 11, 2019
RSD
RV
1
79656.6
Jul 22, 2019
HVV2
Dec 30, 2019
2019-01-01
1929873765
Sep 14, 2019
Sep 14, 2019
Sep 29, 2019
USD
RV
1
2253.86
Sep 14, 2019
NAA8
Nov 25, 2019
2019-01-01
1930147974
Nov 13, 2019
Nov 13, 2019
Nov 28, 2019
USD
RV
1
33133.29
Nov 13, 2019
NAH4
Dec 4, 2019
2019-01-01
2960581231
Sep 20, 2019
Sep 20, 2019
Oct 4, 2019
CAD
RV
1
22225.84
Sep 24, 2019
CA10
Nov 12, 2019
2019-01-01
1930083373
Nov 1, 2019
Oct 31, 2019
Nov 16, 2019
USD
RV
1
7358.49
Nov 1, 2019
NAH4
Rows per page: 5
1–5 of 48579
Privacy Policy | © 2022 HighRadius Corporation. All rights reserved
Activate Windows
Go to Settings to activate Windows.

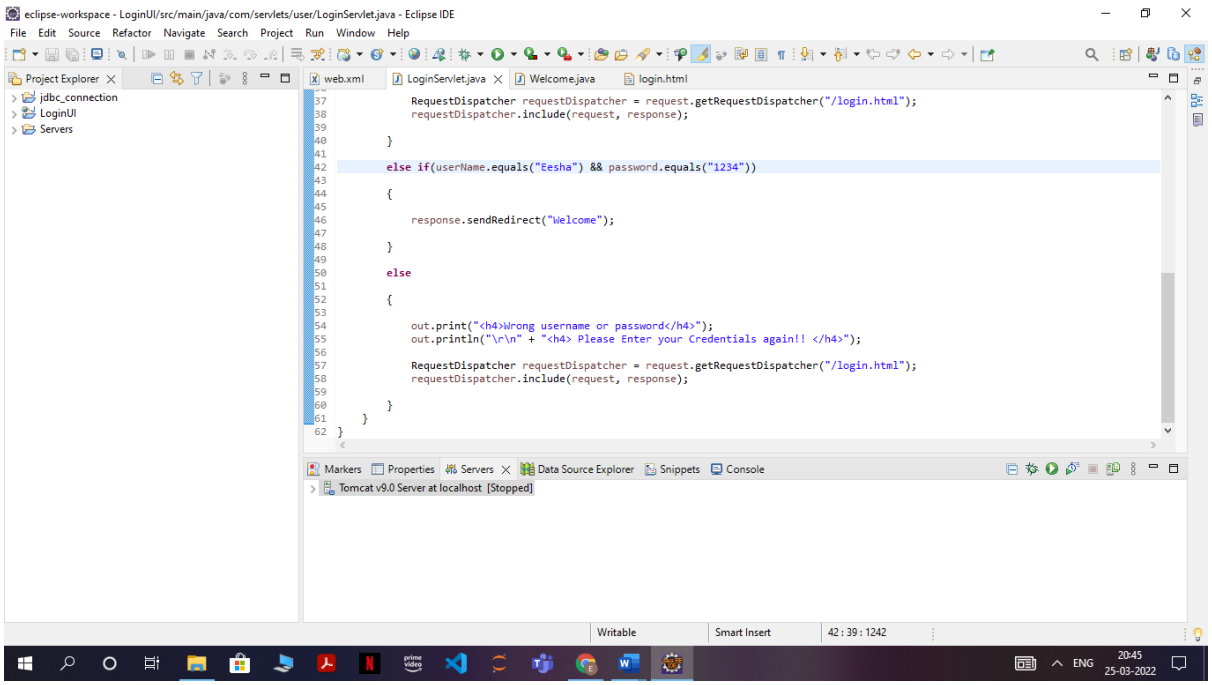

WhatsApp
Paging using servlet and JSP
New Tab
localhost:8081/HRC_Backend
React App
localhost:3000
ABC Products
highradius
PREDICT
ANALYTICS VIEW
ADVANCE SEARCH
Reload Data
Search Customer Id
ADD
EDIT
DELETE
Sl no
Business Code
Customer Number
Clear Date
Business Year
Document Id
Posting Date
Document Create Date
Due In Date
Invoice Currency
Document Type
18 U001 200881076 2019-12-17 2019 1930209407 2019-12-02 2019-12-02 2019-12-17 USD RV
19 U001 200769623 2019-11-26 2019 1930153511 2019-11-15 2019-11-14 2019-11-30 USD RV
20 U001 200769623 2020-02-05 2020 1930438462 2020-01-24 2020-01-24 2020-02-08 USD RV
21 U013 100053554 2020-02-11 2020 1991837617 2020-01-11 2020-01-07 2020-02-10 USD RV
22 U001 200783734 2019-09-04 2019 1929773400 2019-08-21 2019-08-22 2019-09-05 USD RV
23 U001 200744019 2020 1930676042 2020-03-21 2020-03-20 2020-04-05 USD RV
24 U001 100006311 2019-07-30 2019 1929626925 2019-07-17 2019-07-17 2019-08-01 USD RV
25 U001 200769623 2020-02-04 2020 1930431304 2020-01-24 2020-01-23 2020-02-08 USD RV
26 CA02 140106408 2020 2960618790 2020-03-06 2020-03-06 2020-03-16 CAD RV
27 U001 200769623 2019-01-30 2019 1928620435 2019-01-14 2019-01-14 2019-01-29 USD RV
28 U001 200337148 2020 1930592246 2020-03-02 2020-03-02 2020-03-17 USD RV
29 U001 200769623 2019-05-09 2019 1929194820 2019-04-23 2019-04-23 2019-05-08 USD RV
ENG
15:20
14-04-2022

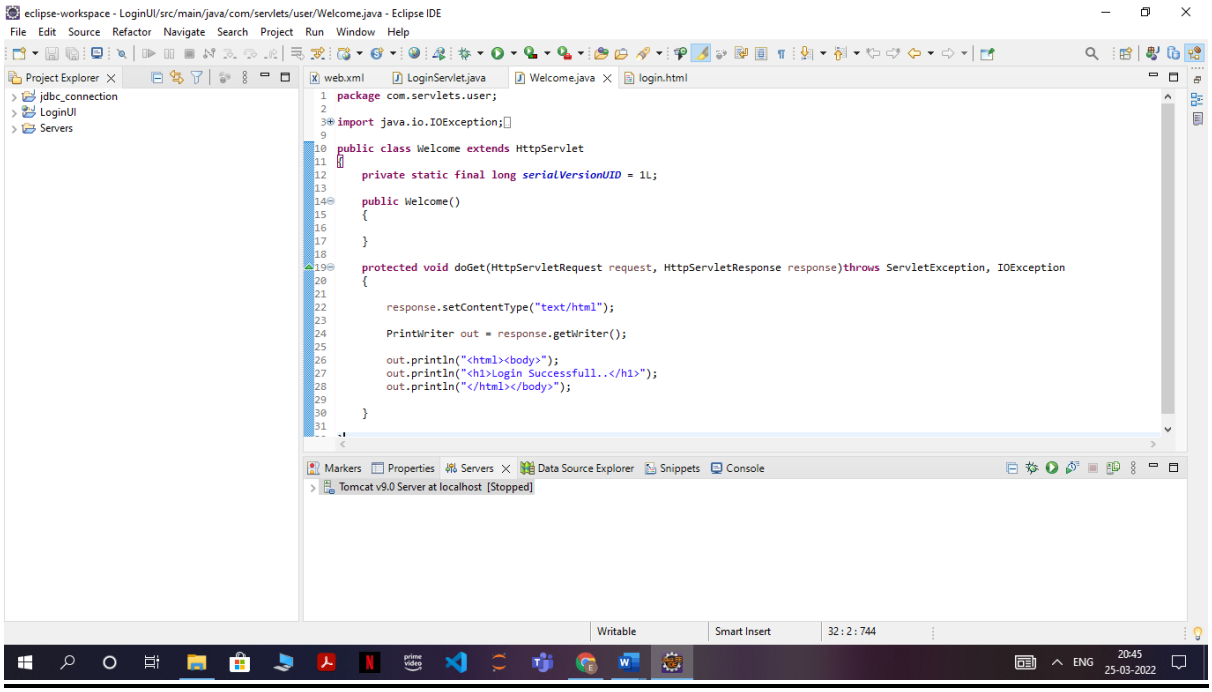

WhatsApp
Paging using servlet and JSP
New Tab
localhost:8081/HRC_Backend
React App
localhost:3000
ABC Products
highradius
PREDICT
ANALYTICS VIEW
ADVANCE SEARCH
Search Customer Id
20096
ADD
EDIT
DELETE
Sl no
Business Code
Customer Number
Clear Date
Business Year
Document Id
Posting Date
Document Create Date
Due In Date
Invoice Currency
Document Type
10032 U001 200965912 2019-01-17 2019 1928551080 2019-01-02 2019-01-02 2019-01-17 USD RV
12175 U001 200965912 2020 1930602606 2020-03-04 2020-03-04 2020-03-19 USD RV
12296 U001 200965912 2020 1930777751 2020-04-13 2020-04-11 2020-04-28 USD RV
12348 U001 200965912 2019-07-24 2019 1929594283 2019-07-09 2019-07-09 2019-07-24 USD RV
14848 U001 200965912 2019-09-16 2019 1929813165 2019-08-30 2019-08-30 2019-09-14 USD RV
15786 U001 200965912 2019-06-24 2019 1929444839 2019-06-07 2019-06-06 2019-06-22 USD RV
15839 U001 200965912 2020 1930839115 2020-04-29 2020-04-29 2020-05-14 USD RV
16356 U001 200965912 2019-09-27 2019 1929871417 2019-09-12 2019-09-12 2019-09-27 USD RV
16371 U001 200965912 2019-06-06 2019 1929353796 2019-05-22 2019-05-21 2019-06-06 USD RV
16483 U001 200965912 2019-10-29 2019 1929676924 2019-07-29 2019-07-30 2019-10-27 USD RV
17392 U001 200965912 2019-09-05 2019 1929770259 2019-08-21 2019-08-21 2019-09-05 USD RV
18193 U001 200965912 2019-10-16 2019 1929945581 2019-10-01 2019-10-01 2019-10-16 USD RV
ENG
15:20
14-04-2022

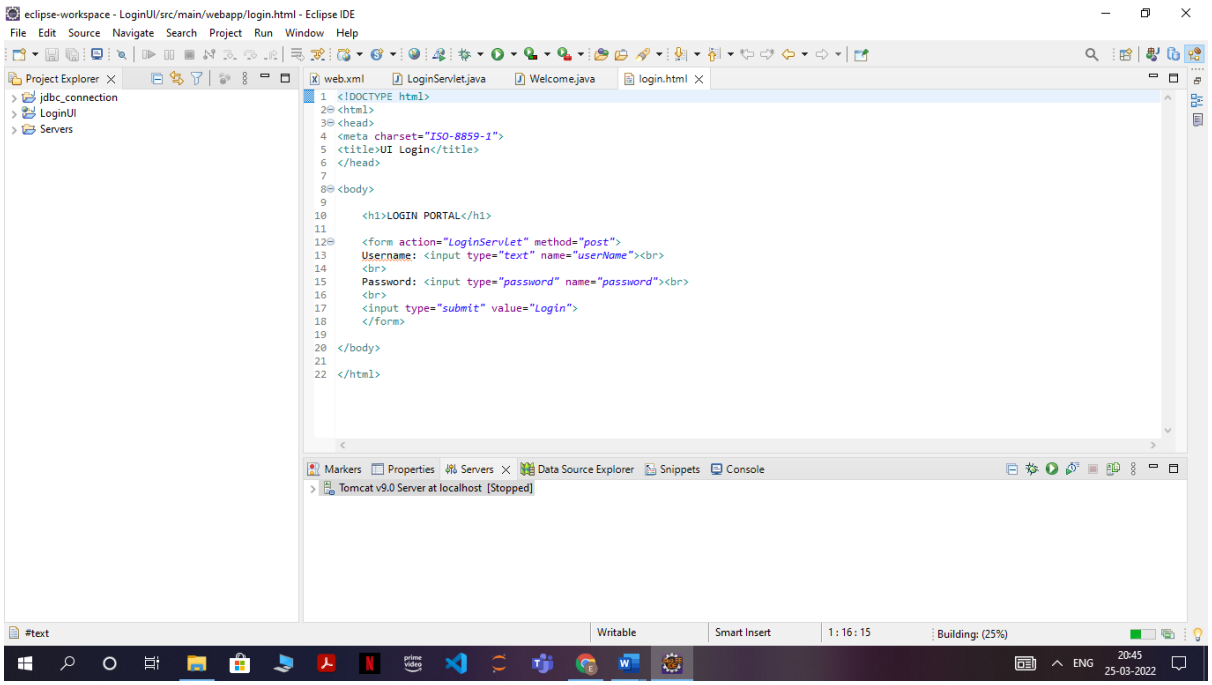

WhatsApp
Paging using servlet and JSP
New Tab
localhost:8081/HRC_Backend
React App
localhost:3000
COA | Basics of Co...
Lec-0: Operating Sy...
Lec-1: DBMS Syllab...
Lec-1: Computer N...
Practice for crackin...
machine learning
theory of computat...
GATE 2023- Exam D...
ABC Products
highradius
PREDICT
ANALYTICS VIEW
ADVANCE SEARCH
Search Customer Id
ADD
EDIT
DELETE
Sl no
Business Code
Customer Number
Clear Date
Business Year
Document Id
Posting Date
Document Create Date
Due In Date
Invoice Currency
Document Type
Po
12 U001 200743129 2019-01-22 2019 1928550622 2019-01-02 2019-01-02 2019-01-17 USD RV
18 U001 200881076 2019-12-17 2019 1930209407 2019-12-02 2019-12-02 2019-12-17 USD RV
19 U001 200769623 2019-11-26 2019 1930153511 2019-11-15 2019-11-14 2019-11-30 USD RV
20 U001 200769623 2020-02-05 2020 1930438462 2020-01-24 2020-01-24 2020-02-08 USD RV
21 U013 100053554 2020-02-11 2020 1991837617 2020-01-11 2020-01-07 2020-02-10 USD RV
22 U001 200783734 2019-09-04 2019 1929773400 2019-08-21 2019-08-22 2019-09-05 USD RV
23 U001 200744019 2020 1930676042 2020-03-21 2020-03-20 2020-04-05 USD RV
24 U001 100006311 2019-07-30 2019 1929626925 2019-07-17 2019-07-17 2019-08-01 USD RV
25 U001 200769623 2020-02-04 2020 1930431304 2020-01-24 2020-01-23 2020-02-08 USD RV
26 CA02 140106408 2020 2960618790 2020-03-06 2020-03-06 2020-03-16 CAD RV
27 U001 200769623 2019-01-30 2019 1928620435 2019-01-14 2019-01-14 2019-01-29 USD RV
28 U001 200337148 2020 1930592246 2020-03-02 2020-03-02 2020-03-17 USD RV
ENG
15:32
14-04-2022


eclipse-workspace - LoginUI/src/main/webapp/WEB-INF/web.xml - Eclipse IDE
File Edit Source Navigate Search Project Run Window Help
Project Explorer
jdbc_connection
LoginUI
Servers
web.xml
LoginServlet.java
Welcome.java
login.html
<servlet-name>login</servlet-name>
<servlet-class>com.servlets.user.LoginServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>login</servlet-name>
<url-pattern>/LoginServlet</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>welcome</servlet-name>
<servlet-class>com.servlets.user.Welcome</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>welcome</servlet-name>
<url-pattern>/Welcome</url-pattern>
</servlet-mapping>
</web-app>
Design
Source
Markers
Properties
Servers
Data Source Explorer
Snippets
Console
Tomcat v9.0 Server at localhost [Stopped]
#text
Writable
Smart Insert
29 : 1 : 930
ENG
20:45
25-03-2022


eclipse-workspace - LoginUI/src/main/java/com/servlets/user/LoginServlet.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
jdbc_connection
LoginUI
Servers
web.xml
LoginServlet.java
Welcome.java
login.html
package com.servlets.user;
import java.io.IOException;
public class LoginServlet extends HttpServlet {
private static final long serialVersionUID = 1L;
public LoginServlet()
{
}
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException
{
response.setContentType("text/html");
PrintWriter out = response.getWriter();
String userName = request.getParameter("userName").trim();
String password = request.getParameter("password").trim();
if(userName == null || userName.equals("") || password == null || password.equals(""))
Markers
Properties
Servers
Data Source Explorer
Snippets
Console
Tomcat v9.0 Server at localhost [Stopped]
Writable
Smart Insert
42 : 39 : 1242
ENG
20:45
25-03-2022

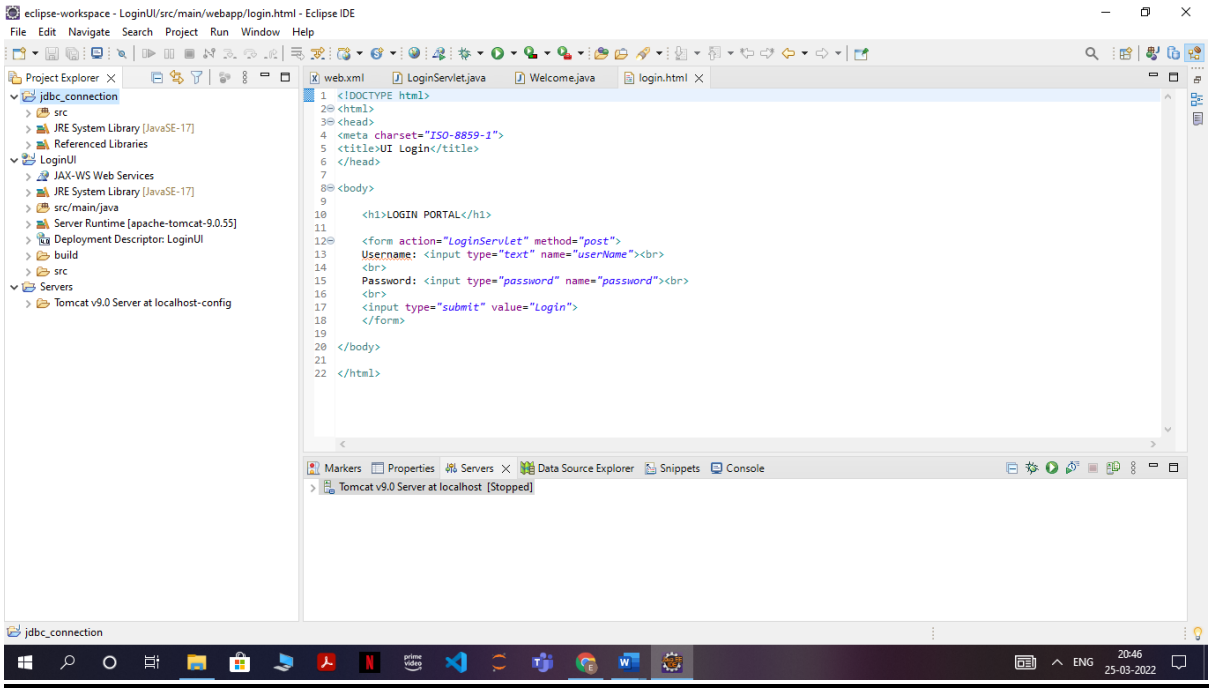

eclipse-workspace - LoginUI/src/main/java/com/servlets/user/LoginServlet.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
jdbc_connection
LoginUI
Servers
web.xml
LoginServlet.java
Welcome.java
login.html
RequestDispatcher requestDispatcher = request.getRequestDispatcher("/login.html");
requestDispatcher.include(request, response);
else if(userName.equals("Eesha") && password.equals("1234"))
response.sendRedirect("Welcome");
else
out.print("<h4>Wrong username or password</h4>");
out.println("\r\n" + "<h4> Please Enter your Credentials again!! </h4>");
RequestDispatcher requestDispatcher = request.getRequestDispatcher("/login.html");
requestDispatcher.include(request, response);
Markers Properties Servers Data Source Explorer Snippets Console
Tomcat v9.0 Server at localhost [Stopped]
Writable
Smart Insert
42 : 39 : 1242
ENG
20:45
25-03-2022


eclipse-workspace - LoginUI/src/main/java/com/servlets/user/Welcome.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
jdbc_connection
LoginUI
Servers
web.xml
LoginServlet.java
Welcome.java
login.html
package com.servlets.user;
import java.io.IOException;
public class Welcome extends HttpServlet
private static final long serialVersionUID = 1L;
public Welcome()
protected void doGet(HttpServletRequest request, HttpServletResponse response)throws ServletException, IOException
response.setContentType("text/html");
PrintWriter out = response.getWriter();
out.println("<html><body>");
out.println("<h1>Login Successfull..</h1>");
out.println("</html></body>");
Markers Properties Servers Data Source Explorer Snippets Console
Tomcat v9.0 Server at localhost [Stopped]
Writable
Smart Insert
32 : 2 : 744
ENG
20:45
25-03-2022


eclipse-workspace - LoginUI/src/main/webapp/login.html - Eclipse IDE
File Edit Source Navigate Search Project Run Window Help
Project Explorer
jdbc_connection
LoginUI
Servers
web.xml
LoginServlet.java
Welcome.java
login.html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>UI Login</title>
</head>
<body>
<h1>LOGIN PORTAL</h1>
<form action="LoginServlet" method="post">
Username: <input type="text" name="userName">

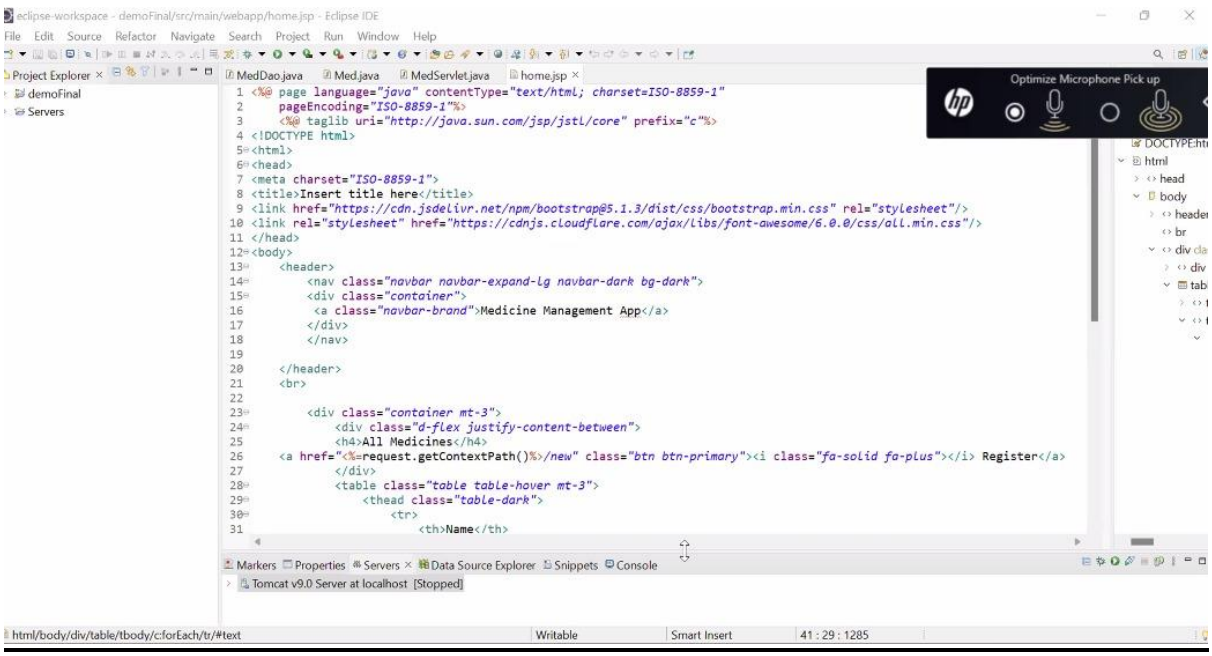
Password: <input type="password" name="password">

<input type="submit" value="Login">
</form>
</body>
</html>
Markers Properties Servers Data Source Explorer Snippets Console
Tomcat v9.0 Server at localhost [Stopped]
#text
Writable
Smart Insert
1 : 16 : 15
Building: (25%)
ENG
20:45
25-03-2022


eclipse-workspace - LoginUI/src/main/webapp/login.html - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Project Explorer
jdbc_connection
src
JRE System Library [JavaSE-17]
Referenced Libraries
LoginUI
JAX-WS Web Services
JRE System Library [JavaSE-17]
src/main/java
Server Runtime [apache-tomcat-9.0.55]
Deployment Descriptor: LoginUI
build
src
Servers
Tomcat v9.0 Server at localhost-config
web.xml
LoginServlet.java
Welcome.java
login.html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>UI Login</title>
</head>
<body>
<h1>LOGIN PORTAL</h1>
<form action="LoginServlet" method="post">
Username: <input type="text" name="userName">

Password: <input type="password" name="password">

<input type="submit" value="Login">
</form>
</body>
</html>
Markers Properties Servers Data Source Explorer Snippets Console
Tomcat v9.0 Server at localhost [Stopped]
jdbc_connection
ENG
20:46
25-03-2022

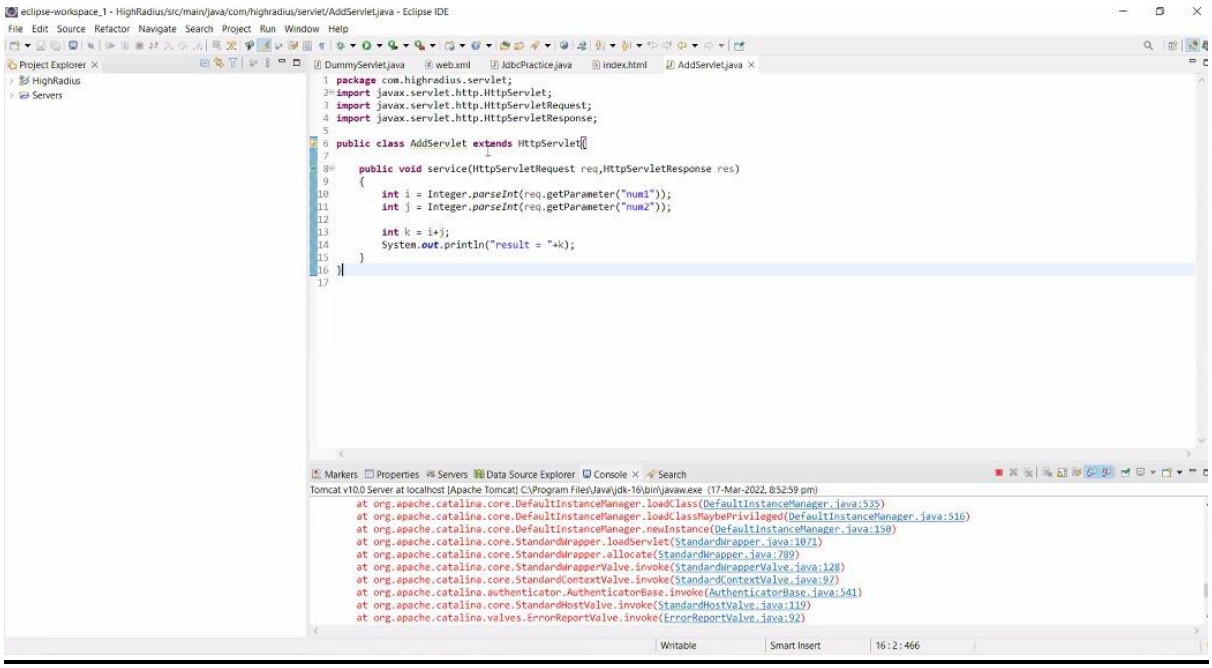

eclipse-workspace - demoFinal/src/main/webapp/home.jsp - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
demoFinal
Servers
MedDao.java
Med.java
MedServlet.java
home.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"/>
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css"/>
</head>
<body>
<header>
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">

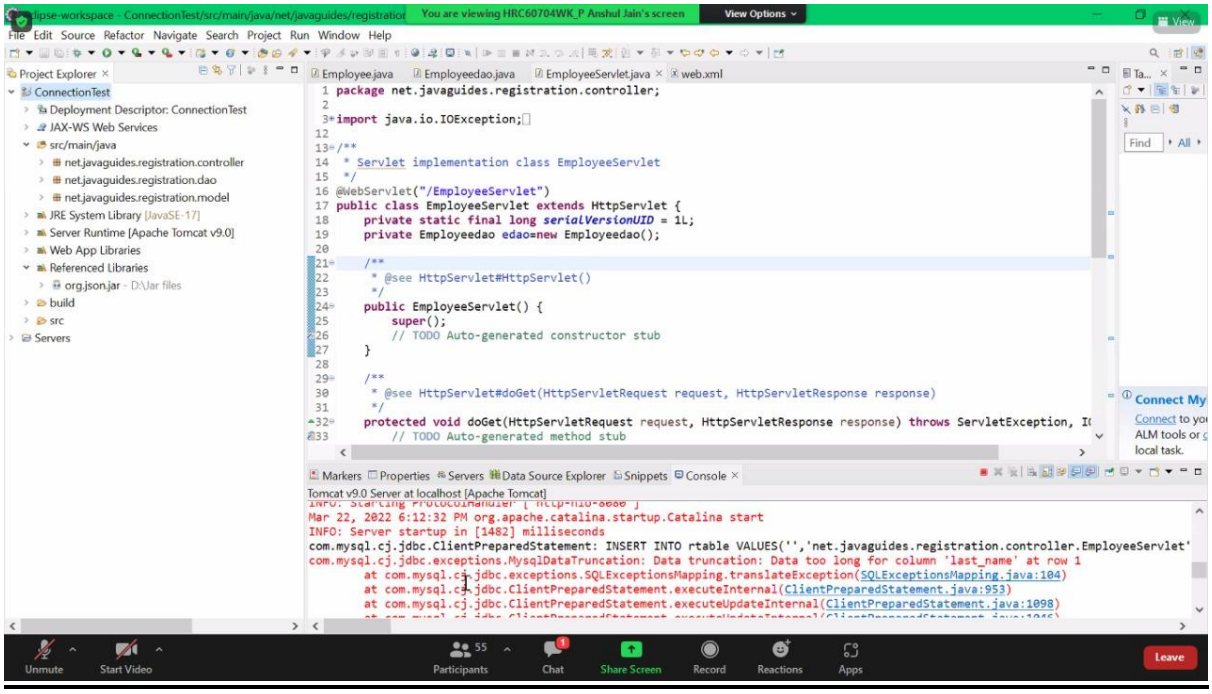
<a class="navbar-brand">Medicine Management App</a>

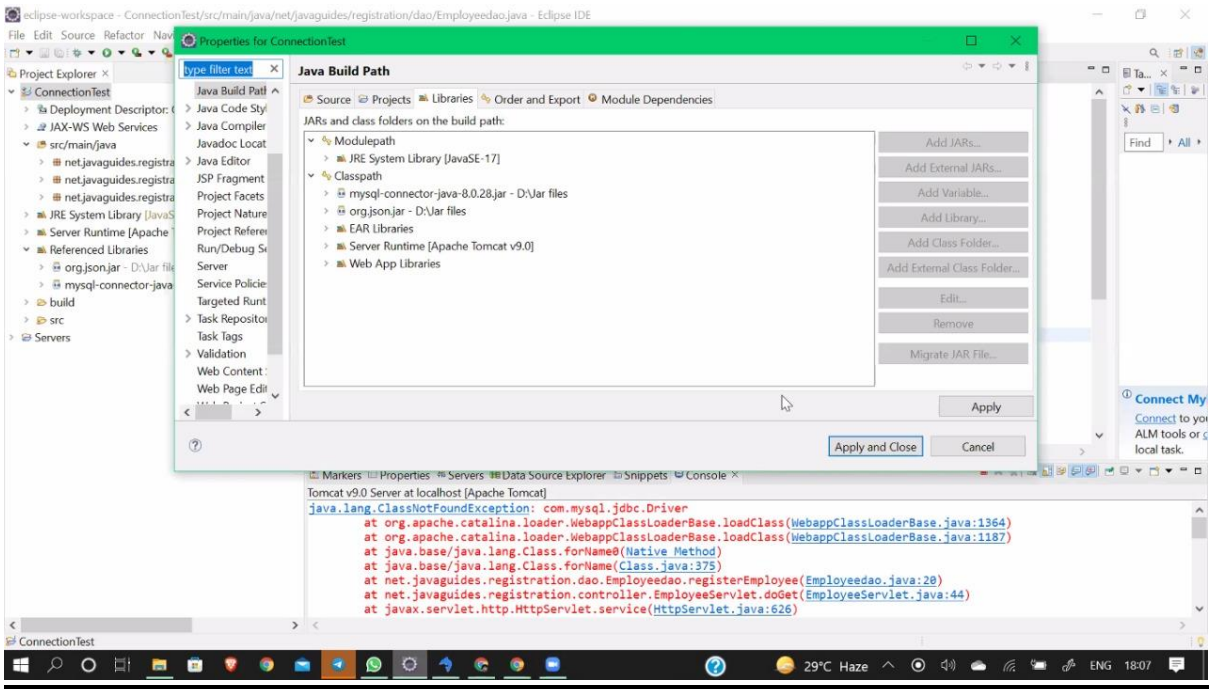
</nav>
</header>

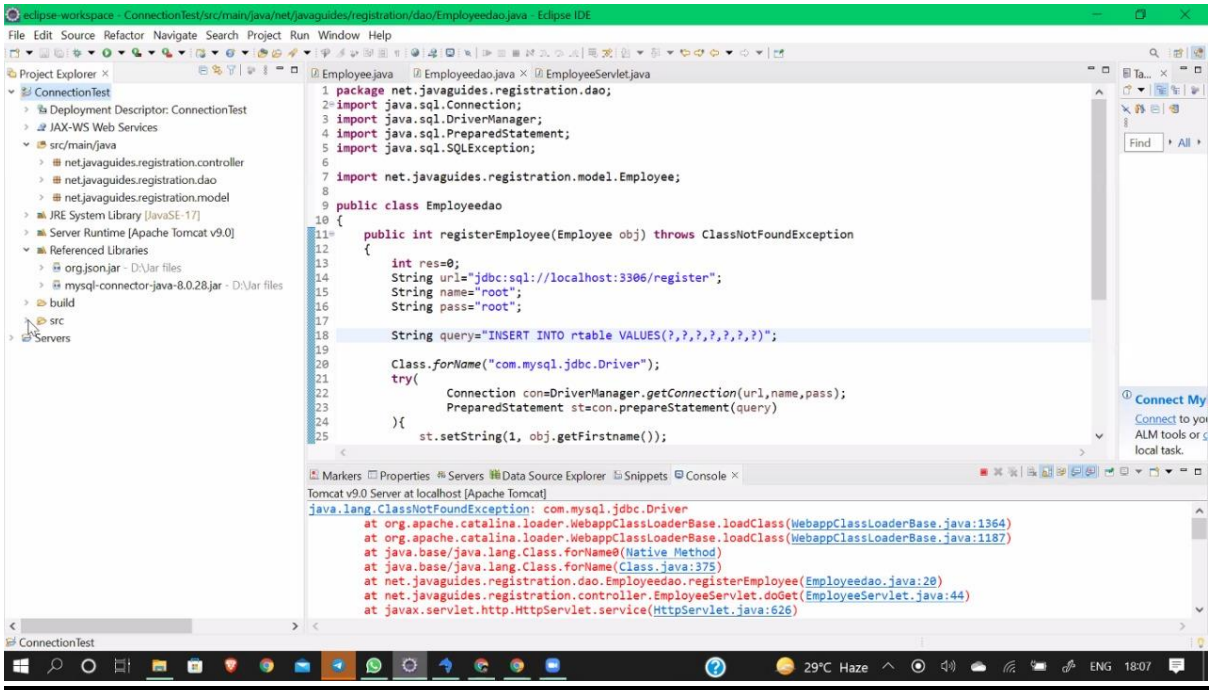
<h4>All Medicines</h4>
<a href="<%=request.getContextPath()%>/new" class="btn btn-primary"> Register</a>

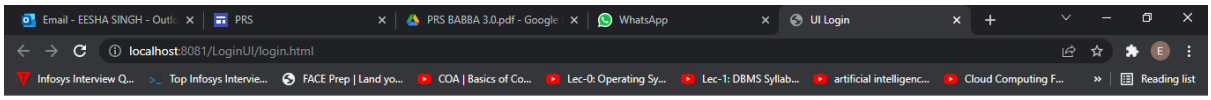
<table class="table table-hover mt-3">
<thead class="table-dark">
<tr>
<th>Name</th>
Optimize Microphone Pick up
Markers Properties Servers Data Source Explorer Snippets Console
Tomcat v9.0 Server at localhost [Stopped]
html/body/div/table/tbody/c:forEach/tr/#text
Writable
Smart Insert
41 : 29 : 1285


eclipse-workspace_1 - HighRadius/src/main/java/com/highradius/servlet/AddServlet.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
HighRadius
Servers
DummyServlet.java
web.xml
JdbcPractice.java
index.html
AddServlet.java
package com.highradius.servlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class AddServlet extends HttpServlet{
public void service(HttpServletRequest req,HttpServletResponse res)
{
int i = Integer.parseInt(req.getParameter("num1"));
int j = Integer.parseInt(req.getParameter("num2"));
int k = i+j;
System.out.println("result = "+k);
}
}
Markers Properties Servers Data Source Explorer Console Search
Tomcat v10.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk-16\bin\javaw.exe (17-Mar-2022, 8:52:59 pm)
at org.apache.catalina.core.DefaultInstanceManager.loadClass(DefaultInstanceManager.java:535)
at org.apache.catalina.core.DefaultInstanceManager.loadClassMaybePrivileged(DefaultInstanceManager.java:516)
at org.apache.catalina.core.DefaultInstanceManager.newInstance(DefaultInstanceManager.java:150)
at org.apache.catalina.core.StandardWrapper.loadServlet(StandardWrapper.java:1071)
at org.apache.catalina.core.StandardWrapper.allocate(StandardWrapper.java:789)
at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:128)
at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:97)
at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:541)
at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:119)
at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:92)
Writable
Smart Insert
16 : 2 : 466


You are viewing HRC60704WK_P Anshul Jain's screen
View Options
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
ConnectionTest
Deployment Descriptor: ConnectionTest
JAX-WS Web Services
src/main/java
net.javaguides.registration.controller
net.javaguides.registration.dao
net.javaguides.registration.model
JRE System Library [JavaSE-17]
Server Runtime [Apache Tomcat v9.0]
Web App Libraries
Referenced Libraries
org.json.jar - D:\Jar files
build
src
Servers
Employee.java
Employeedao.java
EmployeeServlet.java
web.xml
package net.javaguides.registration.controller;
import java.io.IOException;
/**
* Servlet implementation class EmployeeServlet
*/
@WebServlet("/EmployeeServlet")
public class EmployeeServlet extends HttpServlet {
private static final long serialVersionUID = 1L;
private Employeedao edao=new Employeedao();
/**
* @see HttpServlet#HttpServlet()
*/
public EmployeeServlet() {
super();
// TODO Auto-generated constructor stub
}
/**
* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
*/
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, I
// TODO Auto-generated method stub
Markers Properties Servers Data Source Explorer Snippets Console
Tomcat v9.0 Server at localhost [Apache Tomcat]
Mar 22, 2022 6:12:32 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in [1482] milliseconds
com.mysql.cj.jdbc.ClientPreparedStatement: INSERT INTO rtable VALUES('','net.javaguides.registration.controller.EmployeeServlet'
com.mysql.cj.jdbc.exceptions.MysqlDataTruncation: Data truncation: Data too long for column 'last_name' at row 1
at com.mysql.cj.jdbc.exceptions.SQLExceptionsMapping.translateException(SQLExceptionsMapping.java:104)
at com.mysql.cj.jdbc.ClientPreparedStatement.executeInternal(ClientPreparedStatement.java:953)
at com.mysql.cj.jdbc.ClientPreparedStatement.executeUpdateInternal(ClientPreparedStatement.java:1098)
Connect My
Connect to yo
ALM tools or
local task.
Unmute
Start Video
Participants
Chat
Share Screen
Record
Reactions
Apps
Leave


eclipse-workspace - ConnectionTest/src/main/java/net/javaguides/registration/dao/Employeedao.java - Eclipse IDE
Properties for ConnectionTest
Java Build Path
Source
Projects
Libraries
Order and Export
Module Dependencies
JARs and class folders on the build path:
Modulepath
JRE System Library [JavaSE-17]
Classpath
mysql-connector-java-8.0.28.jar - D:\Jar files
org.json.jar - D:\Jar files
EAR Libraries
Server Runtime [Apache Tomcat v9.0]
Web App Libraries
Add JARs...
Add External JARs...
Add Variable...
Add Library...
Add Class Folder...
Add External Class Folder...
Edit...
Remove
Migrate JAR File...
Apply
Apply and Close
Cancel
Tomcat v9.0 Server at localhost [Apache Tomcat]
java.lang.ClassNotFoundException: com.mysql.jdbc.Driver
at org.apache.catalina.loader.WebappClassLoaderBase.loadClass(WebappClassLoaderBase.java:1364)
at org.apache.catalina.loader.WebappClassLoaderBase.loadClass(WebappClassLoaderBase.java:1187)
at java.base/java.lang.Class.forName0(Native Method)
at java.base/java.lang.Class.forName(Class.java:375)
at net.javaguides.registration.dao.Employeedao.registerEmployee(Employeedao.java:20)
at net.javaguides.registration.controller.EmployeeServlet.doGet(EmployeeServlet.java:44)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:626)


eclipse-workspace - ConnectionTest/src/main/java/net/javaguides/registration/dao/Employeedao.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Employee.java
Employeedao.java
EmployeeServlet.java
package net.javaguides.registration.dao;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import net.javaguides.registration.model.Employee;
public class Employeedao
{
public int registerEmployee(Employee obj) throws ClassNotFoundException
{
int res=0;
String url="jdbc:sql://localhost:3306/register";
String name="root";
String pass="root";
String query="INSERT INTO rtable VALUES(?,?,?,?,?,?,?)";
Class.forName("com.mysql.jdbc.Driver");
try(
Connection con=DriverManager.getConnection(url,name,pass);
PreparedStatement st=con.prepareStatement(query)
){
st.setString(1, obj.getFirstname());
Tomcat v9.0 Server at localhost [Apache Tomcat]
java.lang.ClassNotFoundException: com.mysql.jdbc.Driver
at org.apache.catalina.loader.WebappClassLoaderBase.loadClass(WebappClassLoaderBase.java:1364)
at org.apache.catalina.loader.WebappClassLoaderBase.loadClass(WebappClassLoaderBase.java:1187)
at java.base/java.lang.Class.forName0(Native Method)
at java.base/java.lang.Class.forName(Class.java:375)
at net.javaguides.registration.dao.Employeedao.registerEmployee(Employeedao.java:20)
at net.javaguides.registration.controller.EmployeeServlet.doGet(EmployeeServlet.java:44)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:626)

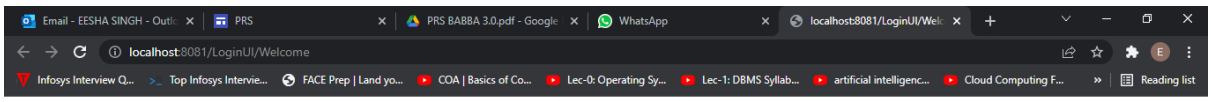


LOGIN PORTAL

Username: Eesha

Password: ••••

Login



Login Successfull..

SKILLS LEARNED DURING INTERNSHIP

Some skills that I learned during this internship is first how to implement the subject we are taught in colleges to the real-life problems.

I have learned how to make a real time application using web development and ReactJs.

Basically, they taught me brainstorming and how to approach a real-life problem and to implement the things that we already know in that problem. In conclusion, I have learned how to use my theory knowledge in practical life.

MOST DIFFICULT SITUATION ENCOUNTERED

The most difficult situation that I encountered during my internship is that I am not good at java programming and in the project that I have to do has a lot of parts that involves the uses of java. So, at that time I faced some difficulties to learn java and then implement it onto the project.

Then I also faced some difficulties while implementing ReactJs. But eventually with the help of moderators I was able to overcome it.

PLANS AND ESTIMATE TIME REQUIRED FOR THIS: -

● Short roadmap further required for this project: -

- ✓ Learn SQL concepts and DB basics.
- ✓ JAVA basic JDBC work and Servlet.
- ✓ HTML & CSS work for creating login screen.
- ✓ Creating Dialog Box and Grid UI.
- ✓ Loading data into Grid and implement search functionality.
- ✓ Performing Grid Analytics work.
- ✓ Finally, Web app project.

IT will nearly take 2 months from now.

● Brief on roadmap: -

- ✓ **Learn SQL concepts and DB basics: -**SQL is used everywhere, as long as there is a database account to manage. If you are considering a career in data science or analytics, then you should learn SQL. Several big tech companies such as Airbnb, Facebook, Amazon, Netflix, Twitter, Google, and lots more use SQL to query data and carry out an analysis.

- ✓ **JAVA basic JDBC work and Servlet: -**Servlets in Java check the communication interface, requirements of client and server, the protocol used, programming language, and the software involved. As a technology, the servlet is used to create web pages; as an API, which provides interfaces, etc. It is used to extend the capabilities of the server which hosts applications on a request-response programming model. Servlets provide component-based and a platform-independent method to build web-based applications without any performance limitations. Servlets in Java have entire access over Java API's and JDBC to access the enterprise database.

- ✓ **HTML & CSS work for creating login screen: -**There's no denying the fact that HTML and CSS both act as a foundation for the app development. Some even refer to them as building blocks in learning about building an application. Mobile app developers are someone who can be referred to technical professionals who can design, develop and maintain mobile as well as web applications

- ✓ **Creating Dialog Box and Grid UI & Loading data into Grid and implement search functionality.**

Balance is one of the most important principle of design, the beauty of the grid system helps keep the design consistent and even. It works both the ways — symmetrical layout and asymmetrical layout. It makes it easier to judge as in which part of your design is overpowering the other. In the world, where we're always wanting to get things done easier and quicker, grids can help greatly to speed up and improve your design layouts. The grid lines act here as a guide to place your elements, position and at the same time scale them, instead of randomly placing your elements, consuming more of our time.

- ✓ **Performing Grid Analytics work: -**Grid Analytics from GE Digital is designed to forecast system inertia, predict the impact of weather events, and reduce operations and maintenance outages. Learn more about the future of the grid and the technologies that will take utilities from a reactive mode, to a proactive system where they can anticipate trouble before it occurs.

- ✓ **Finally, Web app project.**

CONCLUSION: -

Java is one of those programming languages used to develop dynamic web applications. It is not unknown that it holds more than 14% of the market as most of the renowned companies use Java web development services for themselves. It is not the only programming language but one of the most preferred ones. Java is considered one of the best programming languages for web development.

As it is one of the well-established and popular programming languages, its resources are readily available.

One of the unique features of this Java is that its codes can run on any operating system, be it Microsoft Windows or macOS. It is designed to be object-oriented and is a cross-platform programming language. Hire java developers and they will tell you that building a website using this language is the best decision. Java codes work on any device, mobile phone, tablet, or laptop, without causing issues.

It is also highly chosen as no extra work is needed to make it available for different devices. You can create the codes once and then copy and paste them everywhere else.

Java web development services offer an extensive standard library, helping the web developers with minor and major tasks such as input, output, networking, graphic user interfaces, etc.

Best memory management: One of the imperative parts of Java programming is its memory management. It provides this feature with the help of the garbage collector.

- Usage of this feature by the programmers eliminates unnecessary monitoring. When objects in the program are no longer being used, they are automatically deleted from the memory.
- The entire process goes on faster as there is no need to keep track of details inserted in the application

Cross-platform support: This is best for people who want to develop applications for multiple operating systems, such as Microsoft Windows and Linux. It works perfectly on any of them.

- There is no extra work of transferring your code to different platforms; Java does that independently.
- The programmers need to write the code once, copy it, and use it for any other platform. The reason why it is considered to be the best one as it works efficiently for different operating systems.

Use of Multithread yields high performance: You can develop both single-threaded and multi-threaded application using java

- When developers write the program using the single-threaded feature, users are restricted to exercise only one task at a time. This kind of application is plodding and gets the users very impatient. This may result in uninstalling the application.
- This then becomes the reason for programmers to use multi-threaded programs. The tasks are segregated into different threads that work parallelly, increasing the interface's speed.

Web development is creating a set of content digitally. This can be accessed by anyone with an internet connection from any corner of the world. This includes creating simple to complex applications. It allows web developers to use programming language and create customizable and dynamic content and services.

One such programming language is called Java. From Amazon to Netflix, from Spotify to LinkedIn, many top companies have chosen Java development services in their respective niches.

Java is a programming language designed to create content for the world wide web and is an object-oriented language. It uses similar syntax as used by C++.

A web application helps clients to interact with the server and access information. Java is perfect for developing large web applications too because of its ability to communicate with a large number of systems. Services like peer-web services, database connectivity, and back-end services can also be accessed via Java web development.

For all these skills a company is looking for, where a programmer took less time to give effective result in short period of time.