Project Report

On

RKV PLACEMENT CELL

Submitted by

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Under the guidance of

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CERTIFICATE

This is to certify that the project work titled "**RKV PLACEMENT CELL**" is a bonafied project work submitted by Sai Kumar Sripathi in the department of COMPUTER SCIENCE AND ENGINEERING in partial fulfillment of requirements for the award of degree of Bachelor of Technology in Computer science and engineering for the year 2022-2023 carried out the work under the supervision.

GUIDE	HEAD OF THE DEPARTMENT
K VINOD KUMAR	SATYANANDARAM N

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Abstract

The project is related to campus placement cell, where it manages all the CDPC related activities and this will reduce the time and the communication gap between the CDPC and students. Students will get every bit of notification of the latest updates and through this website and each student have a flexible management system. Admin of this website gathers all the related information from the CDPC and update it on the website.

Students get the status related to his application to the company through email. Students will be solved the FAQs through sending queries to the placement officer. Our main aim is to enhance all the features and providing a flexible environment to the students.

Technologies:-

→ Frontend:- HTML, CSS, JavaScript

→ Backend:- NodeJS, MySQL

INTRODUCTION

1 Introduction to Web Technologies

1.1 Internet

The Internet is a global wide area network that connects computer system across the world. The internet provides different online services.

1.2 WWW(World Wide Web)

The World Wide Web -- also known as the web, WWW or W3 -- refers to **all the public websites or pages that users can access on their local computers and other devices through the internet**. These pages and documents are interconnected by means of hyperlinks that users click on for information.

1.3 Why web applications ?

Web applications have become an essential component of in today's world. By using the web applications, business can now develop and become simpler, and achieve their objectives much faster. Some common benefits of Web apps include: Allowing multiple users access to the same version of an application. Web apps don't need to be installed. Web apps can be accessed through various platforms such as a desktop, laptop, or mobile.

Scope

This system is helpful for the college campus recruitment process for training and placement department to shortlist students in advance and prepares students for placements.

Requirement Specification

Hardware Configuration:

Client Side:

Ram	512 MB
Hard disk	10 GB
Processor	1.0 GHz

Software Requirement:

Front end	HTML,CSS ,Java Script
Back end	Node Js
Database	MySQL
Web Browser	Firefox , Google Chrome or any compatible browser
Operating System	Ubuntu,Windows or any equivalent OS
Tool	AWS S3
Technology	Cloud Computing

HTML:-

HTML is a *markup language t*hat defines the structure of your content. HTML consists of a series of elements, which you use to enclose, or wrap, different parts of the content to make it appear a certain way, or act a certain way. The enclosing tags can make a word or image hyperlink to somewhere else, can italicize words, can make the font bigger or smaller, and so on

The main parts of our element are as follows:

The opening tag

The closing tag

The content

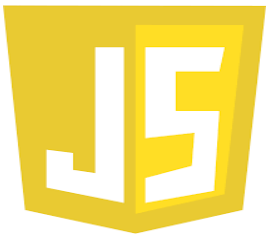
The element

CSS:-

Cascading Style Sheets is a stylesheet language used to describe the presentation of a document written in HTML or XML . It describes how elements should be rendered on screen, on paper, in speech, or on other media. It helps Web developers create a uniform look across several pages of a Web site. Instead of defining the style of each table and each block of text within a page's HTML, commonly used styles need to be defined only once in a CSS document.It can be used to define the cell padding of table cells, the style, thickness, and color of a table's border, and the padding around images or other objects.This is why most Web pages today incorporate cascading style sheets.

Java Script:-

JavaScript is a scripting or programming language that allows you to implement complex features on web pages every time a web page does more than just sit there and display static information for you to look at displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes, etc.,It is the third layer of the layer cake of standard web technologies, two of which HTML and CSS. A very common use of JavaScript is to dynamically modify HTML and CSS to update a user interface, via the Document Object Model API . Look at that the code in your web documents is generally loaded and executed in the order it appears on the page.



MySQL:-

MySQL is a relational database management system based on the Structured Query Language, which is the popular language for accessing and managing the records in the database. MySQL is open-source and free software under the GNU license. It is supported by **Oracle Company**.

Learning During The Project

3.1 JAVASCRIPT :

JavaScript, often abbreviated to JS, is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. As of 2022, 98% of websites use JavaScript on the client side for webpage behavior, often incorporating third-party libraries.

3.2 DBMS :

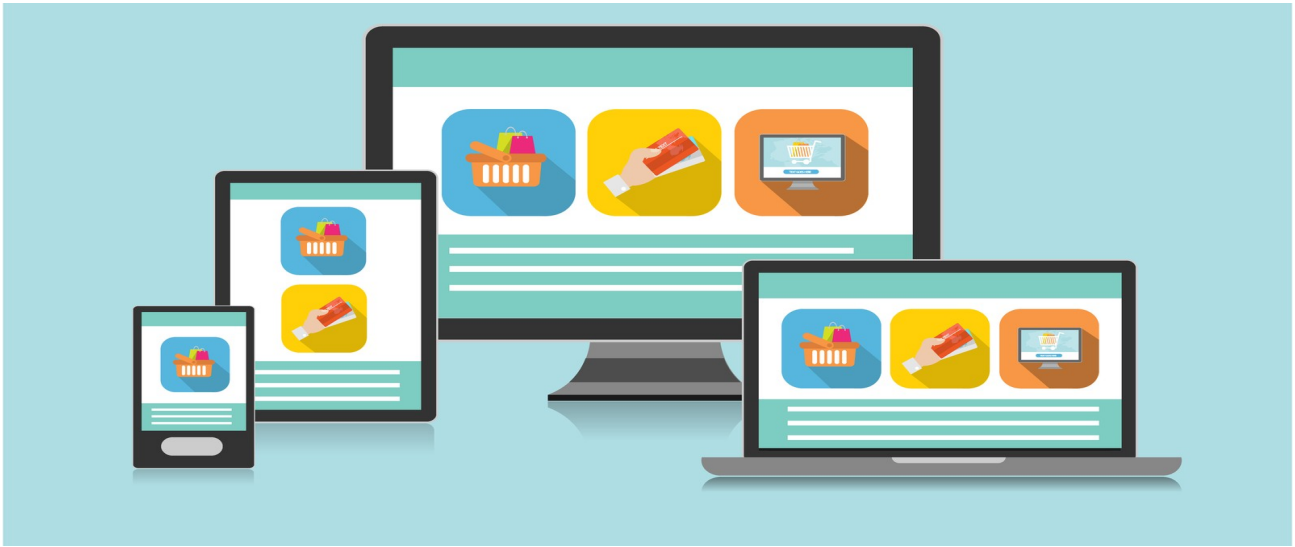
A database management system (DBMS) is system software for creating and managing databases. A DBMS makes it possible for end users to create, read, update and delete data in a database.

3.3 SQLite3 :

SQLite is a relational database management system. It is very easy to use a database engine. It is self-contained, serverless, zero-configuration and transactional. It is very fast and lightweight, and the entire database is stored in a single disk file.It is used in a lot of applications as internal data storage.

3.2 RESPONSIVE WEB DESIGN :

Responsive web Design (RWD) is a web development approach that creates dynamic changes to the appearance of a website, depending on the screen size and orientation of the device being used to view it. RWD is one approach to the problem of designing for the multitude of devices available to customers, ranging form tiny **phones to huge desktop monitors.**



Implementation and System Testing

After all phase have been perfectly done, the system will be implemented to the server and the system can be used.

System Testing

The goal of the system testing process was to determine all faults in our project .The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

1. Unit testing

2 .Integration testing

Unit Testing

Unit testing is commenced when a unit has been created and effectively reviewed .In order to test a single module we need to provide a complete environment i.e. besides the section we would require The procedures belonging to other units that the unit under test calls Non local data structures that module accesses. A procedure to call the functions of the unit under test with appropriate parameters

1. Test for the Home Page

Testing the selected modules- This page is used select the different types of modules present in the Home Page.

2.**Test for the Registration Page**

– This page is used for the Registration Process.

Integration Testing

In the Integration testing we test various combination of the project module by providing the input.

The primary objective is to test the module interfaces in order to confirm that no errors are occurring when one module invokes the other module.

CODING

Homepage.html

```
<!doctype html>
<html>
	<head>
		<title>Placement Cell</title>
		<meta name="viewport" content="width=device-width,initial-scale=1.0"/>
		<link rel="stylesheet" href="./nvk.css"/>
		<link rel="stylesheet" href="./global.css"/>
	</head>
	<body>
		<div id="navbar">
			<div id="left">
				<a href="#">Home<img src="gear.png"/></a>
				<a href="companies.html">Companies<img src="gear.png"/></a>
				<a href="bhaskar/Instructions/Instructions.html">Instructions<img
src="gear.png"/></a>
				<a href="modules/contact.html">Contact<img src="gear.png"/></a>
				<div id="title">Forms<img src="gear.png"/></a>
					<div id="dropdown">
						<a href="bhaskar/UserDetails.html">Student Details</a>
						<a href="companyForm.html">Company Details</a>
						<a href="companyUpdateForm.html">HiringUpdates</a>
					</div>
				</div>
			</div>
			<div id="center">
				<p>Rajiv Gandhi University of Knowledge Technologies</p>
				<i>catering to the rural youth of Andhra Pradesh</i>
			</div>
			<div id="right">
				<a href="signup.html">Signup</a>
			</div>
		</div>
		<div id="part1">
			<div id="p1-left">
```

```
                Username:<br/>
                <input type="text" id="username" required/><br/>
                Password:<br/>
                <input type="password" id="password" required/><br/>
                <button onclick="signin()">Login</button>
        </div>
        <div id="p1-left2">
                <p>Hello</p><br/><h2>Student</h2><br/>
                <p>Welcome to<br/> placement cell</p>
        </div>
        <div id="p1-right">
                <img src="images/man.png"/>
                <img src="images/clg.png"/>
        </div>
</div>
<div id="part2">
        <div id="p2-center">
                <img src="images/meta.png"/>
                <img src="images/apple.png"/>
                <img src="images/netflix.png"/>
                <img src="images/google.png"/>
                <img src="images/salesforce.png"/>
        </div>
</div>
<div id="part3">
                <img src="images/docker.png"/>
                <img src="images/huawei.png"/>
                <img src="images/ibm.png"/>
                <img src="images/oracle.png"/>
                <img src="images/intel.png"/>
                <img src="images/samsung.png"/>
                <img src="images/uber.png"/>
                <img src="images/zoom.png"/>
                <img src="images/aecom.png"/>
                <img src="images/huawei.png"/>
                <img src="images/ibm.png"/>
                <img src="images/oracle.png"/>
                <img src="images/intel.png"/>
                <img src="images/samsung.png"/>
```

```
                        <img src="images/microsoft.png"/><br/>
                        <p>Many more companies are visiting</p>

                </div>
                <div id="part4">
                        <div id="p4-left">
                                <h2>Recent Updates</h2>
                                <p>22 members got selected in YuppTv company</p>
                                <p>Adjoint Technologies 27<sup>th</sup> October 2022</p>
                                <p>10 members got selected in MapleLabs</p>
                                <p>Wipro is visiting our campus on 10<sup>th</sup> November 2022</p>

                                <p>TCS is visiting our campus on 20<sup>th</sup> November 2022</p>

                        </div>
                        <div id="p4-right">
                                <h2>Batch wise Progress</h2>
                                <div id="progress">2023<div id="progress-bar"><div style="width:90%;" id="sub"></div></div></div>
                                <div id="progress">2022<div id="progress-bar"><div style="width:83%;" id="sub"></div></div></div>
                                <div id="progress">2021<div id="progress-bar"><div style="width:85%;" id="sub"></div></div></div>
                                <div id="progress">2020<div id="progress-bar"><div style="width:70%;" id="sub"></div></div></div>
                                <div id="progress">2019<div id="progress-bar"><div style="width:75%;" id="sub"></div></div></div>

                        </div>
                </div>
        </body>
```

Code for Back-End :

Authentication.js

```
const bcrypt=require("bcrypt")
const jwt=require("jsonwebtoken")
const express=require("express")
```

```
const bodyparser=require("body-parser")
const sql=require("mysql")
const Authenticate=express.Router()
module.exports=Authenticate

Authenticate.use(express.static("./static"))
Authenticate.use(express.json());
Authenticate.use(bodyparser.urlencoded({"extended":false}));

const conn=require("./dbConnection.js");

Authenticate.post("/signin",function(req,res){
		//console.log(req.body);
		var username=req.body.user;
		var password=req.body.pass;

	})

Authenticate.post("/signup",function(req,res){
	console.log(req.body);
	let user=req.body.user;
	let id=req.body.id;
	let password=req.body.pass;
	let retyped=req.body.retype;
	if(user.length>0 && password.length>0 && retyped.length>0){
		if(password===retyped){
			db_password=bcrypt.hashSync(password,10);
			db_username=user;
			/*conn.connect(function(err){
				if(err) console.log(err);
				else{*/
					conn.query(`insert into signup values(?,?,?)`,
[db_username,db_password,id],function(err){
						if(err) return res.json({"status":false})
						else{ return res.json({"status":true})
						}
					})
			/*	}
			})*/
		}
```

```
	}
})
```

company.js

```
const app=require("express")
const express=require("express");
const bodyparser=require("body-parser")
const multer=require("multer")
const company=express.Router()
const sql=require("mysql");
const fs=require("fs");
const conn=require("./dbConnection.js");

module.exports=company

company.use(app.json());
company.use(express.static("./static/frontend"))
company.use(bodyparser.urlencoded({"extended":false}))
company.use(multer({"dest":"./static/frontend/company"}).any())


company.post("/addCompany",function(req,res){
	let formData=req.body;
	let files=req.files;
	let companyFiles=[]
	console.log(formData);
	for(i in files){
		let oldpath=files[i].path;
		let newpath="/static/frontend/company/"+formData["name"]
+"."+files[i].mimetype.split("/")[1];
		companyFiles.push(newpath);
		fs.rename(oldpath,newpath,function(err){
			if(err) console.log(err);
		})
	}
let
details=[formData["name"],formData.salary,formData.intern,formData.ppo,formData["description"],c
ompanyFiles[0],formData.mainBranch,companyFiles[1]];
```

```
	conn.query("insert into company(name,salary,intern,ppo,description,logo,mainBranch,fulldetails) values(?,?,?,?,?,?,?,?)",details,function(err){
		if(err) console.log("MODULE:COMPANY\n"+err);
	})
	})



company.get("/getAllCompanies",function(req,res){
	var date=new Date();
	var dateToday=date.getFullYear().toString()+"-"+(date.getMonth()+1).toString()+"-"+date.getDate().toString()
	let ret={};
	conn.query(`select id,name,logo from company where id in(select id from registrations where registrationDate<'${dateToday}')`,function(err,data){
		ret["completed"]=data;
	})
	conn.query(`select id,name,logo from company where id in(select id from registrations where registrationDate>'${dateToday}' and startDate<'${dateToday}')`,function(err,data){
		ret["active"]=data;
	})
	conn.query(`select id,name,logo from company where id in(select id from registrations where startDate>'${dateToday}')`,function(err,data){
		ret["upcoming"]=data;


	})
	conn.query(`select companyId from studentAndcompany where studentId=${req.query.studentId}`,function(err,data){
		if(err || data.length==0){ret["myCompanies"]=[];return res.json(ret);}
		else{
			var filterData=[]
			var obj={}
			var companies=[]
			data[0]["companyId"].split(",").map(ele=>{
				if(obj[ele]==undefined){
					obj[ele]=ele;
					filterData.push(ele);
				}
```

```
                        })
                        filterData.map((id)=>{
                                conn.query(`select id,name,logo from company where id=${id}`,function(err,data){
                                        companies.push(data[0])
                                        if(companies.length==filterData.length){
                                                ret["myCompanies"]=companies;
                                                return res.json(ret);}
                                })
                        })

                }
        })

})


company.post("/getCompanyById",function(req,res){
        //console.log(req.body);
        conn.query(`select * from company where id=${req.body.id}`,function(err,data){
                if(err) console.log(err)
                //console.log(data);
                return res.json({"json":data});
        })
})
```

index.js

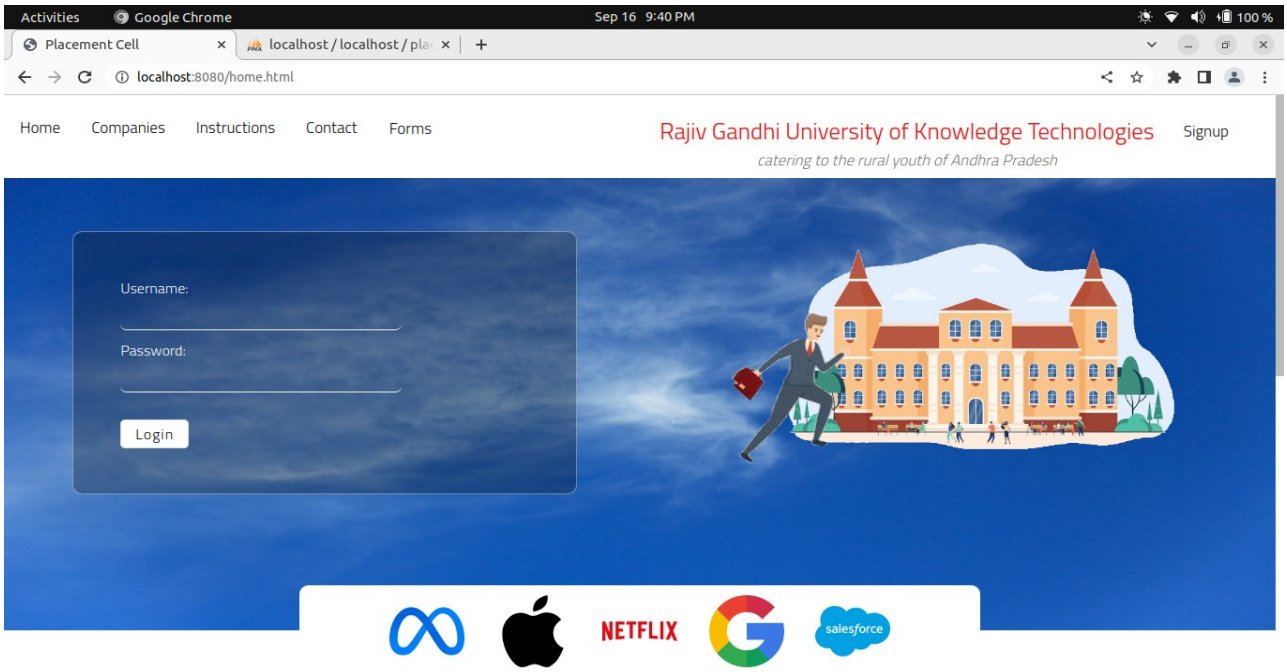
```
const express=require("express");
const app=express();
const authenticate=require("./Authentication.js");
const profile=require("./profile.js");
const cors=require("cors");
const company=require("./company.js")
const mail=require("./mail.js")
const companyUpdate=require("./companyUpdate.js");

const corsOptions = {
  origin: '*',
}
```

```
app.use(cors(corsOptions))
app.use(express.static("./static"));
app.use(express.static("./static/frontend"));
app.use(express.static("./company"));
app.use("/Authentication",authenticate);
app.use("/Profile",profile)
app.use("/Company",company)
app.use("/mail",mail)
app.use("/companyUpdate",companyUpdate)

app.get("/",function(req,res){
        res.sendFile(__dirname+"/static/frontend/home.html");
})

app.listen(8080,function(){
        console.log("Activated");
        })
```

EVALUATION OF MODULES

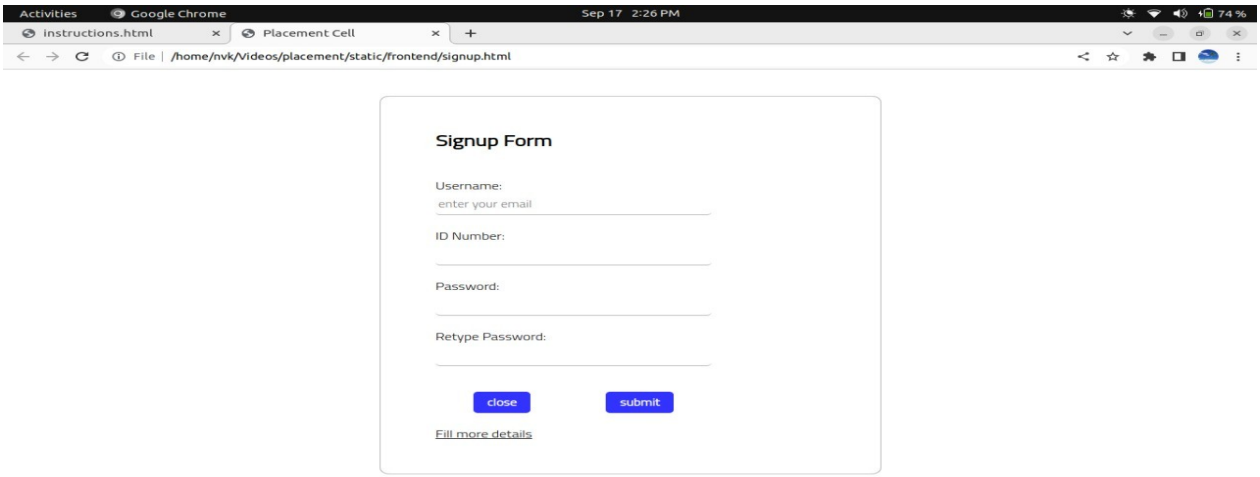
The main aim of this website is to make job searching process easier. Students or Job seekers can log in to the website and apply for jobs which can match their skills

5.1 Home Page :



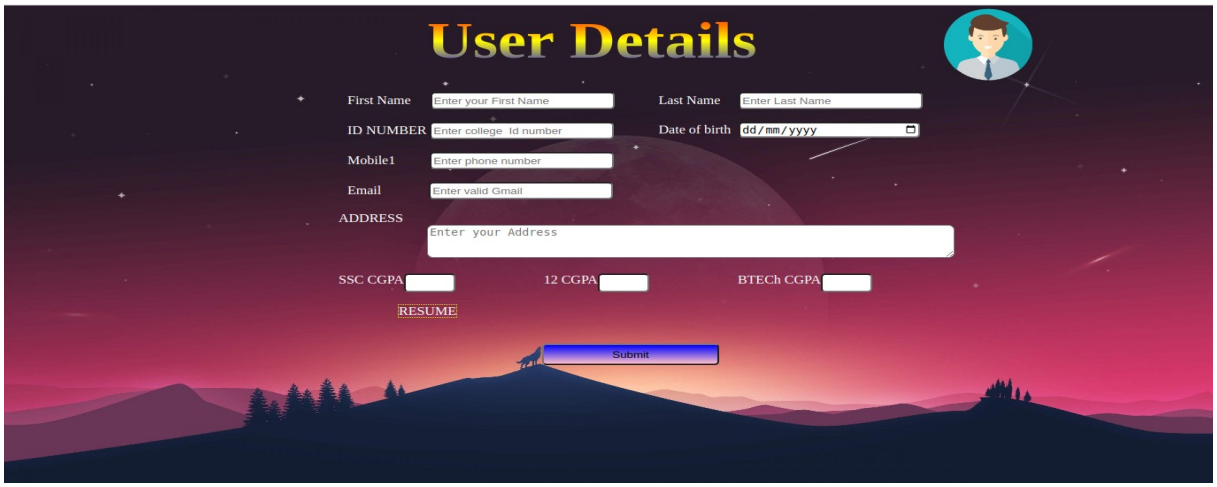
5.2 Sign Up Page :

This is the page where user can do signup process, if the user is new **to the website.**



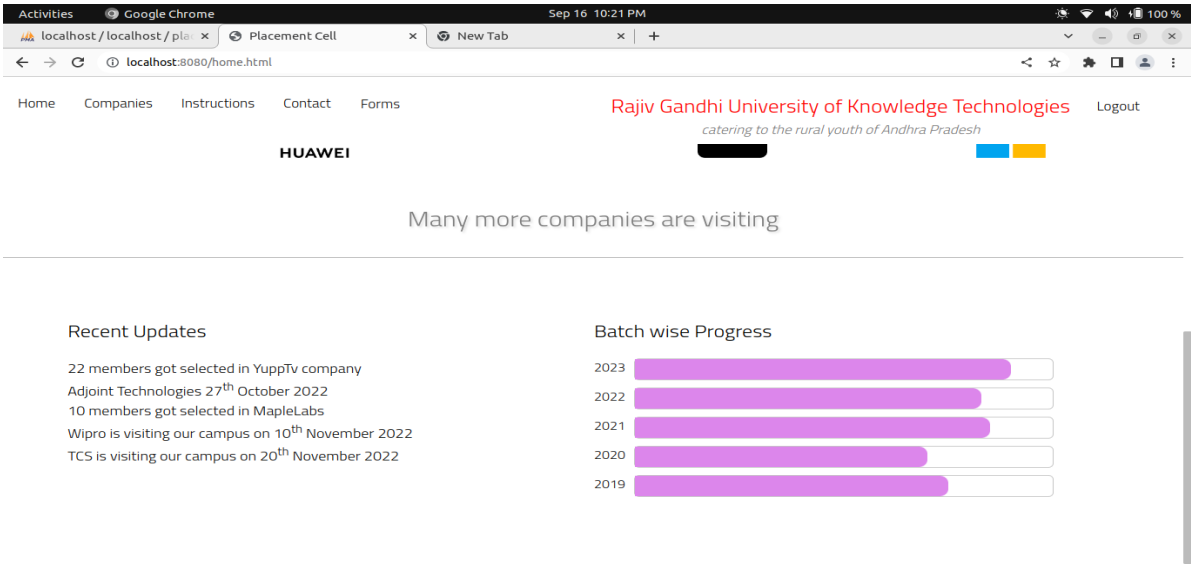
5.3 User Details Page :

Users can enter their details to apply for job.



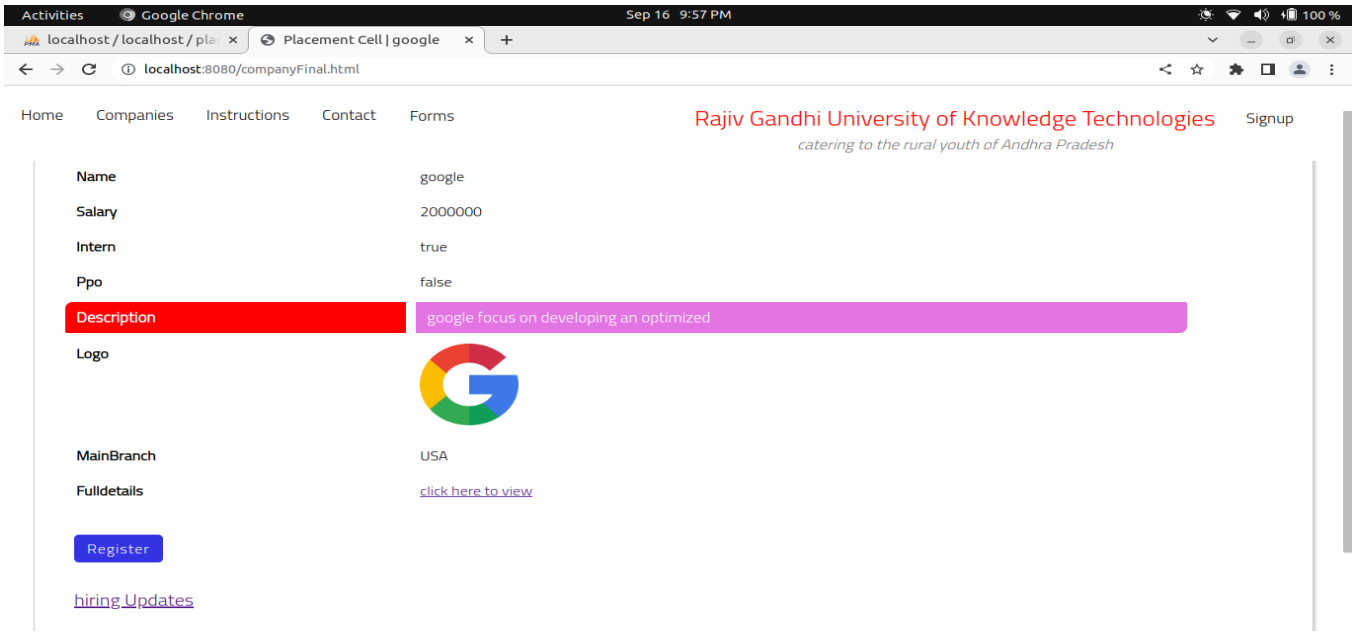
5.4 Dashboard Page :

This page provides the statistics.



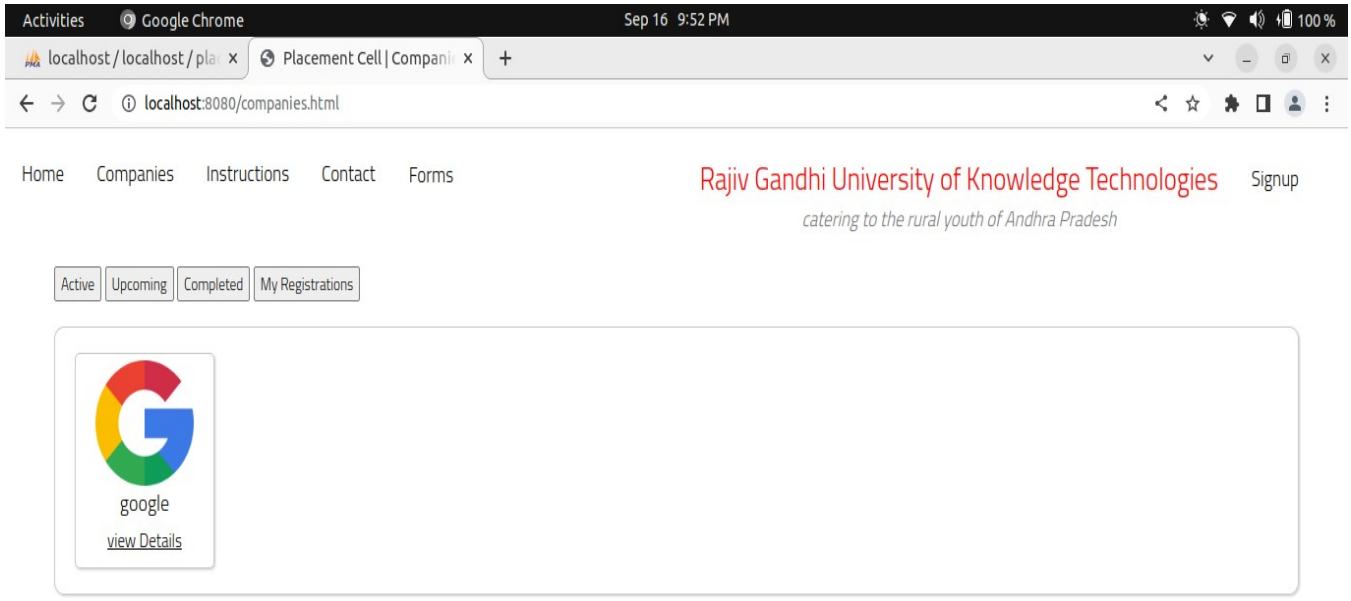
5.5 Company details Page :

This page provides information about companies.



5.6 company page :

This page helps to view all the companies which are coming for hiring.



Conclusion

From a proper analysis of positive points and constraints on the CDPC, it can be safely concluded that the project CDPC is a highly e client GUI based component. Nowadays manual process of searching a job of one's choice as well as searching the appropriate candidate for a specific job has become a huge task and so realizing the need for easy management of this process, the site has been developed. It is very easy to update and maintain information through this site. The main features of this site include flexibility, ease of manipulation of information, easy access searching, storage, reduction of manual work in an e client manner, a quick, convenient, reliable,timely and active way to reach recruiting, search and employment professionals worldwide and it is also very economical.

References

For HTML

- https://www.w3schools.com/html/html_intro.asp
- https://www.tutorialspoint.com/html/index.html

For CSS

- https://www.w3schools.com/css/css_intro.asp

For Java Script

- https://www.tutorialspoint.com/javascript/javascript_overview.html

**************************THANK YOU**************************