FORM AND SERVER SYSTEM

COURSE PROJECT REPORT

Submitted by

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Under the guidance of

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In partial fulfilment for the Course

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18CSP102L -INDUSTRIAL TRAINING

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SCHOOL OF COMPUTING COLLEGE OF ENGINEERING AND TECHNOLOGY SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)

KATTANKULATHUR - 603 203

November, 2022

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Under Section 3 of UGC Act, 1956)

BONAFIDE CERTIFICATE

Certified that this mini project titled "Form and server system" is the bonafide work of **Dhruv Sahu** (**RA2011050010033**), who carried out the project work under my supervision.

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ABSTRACT

This research work generally summarizes the activities carried out in the design and implementation of the form project with server system. It was carried out to train and debug angular apps that are specialized in routing and making changes in systems at the same time storing and updating values in database. In this project an employee can create, read, update his/her data and update it to the servers of the company.

The project's designwas then constructed to visualize the attainment of these aims using Unified Modeling Language diagrams, Entity Relationship diagram, as well as Data Flow Diagram. In the implementation part of this project, the methodology was used for the development of this project. Also, visual studio Professional 2015 was used as an Integrated Development Environment (IDE), developed using HTML, CSS, Bootstrap, Angular, Node.js.

ACKNOWLEDGEMENT

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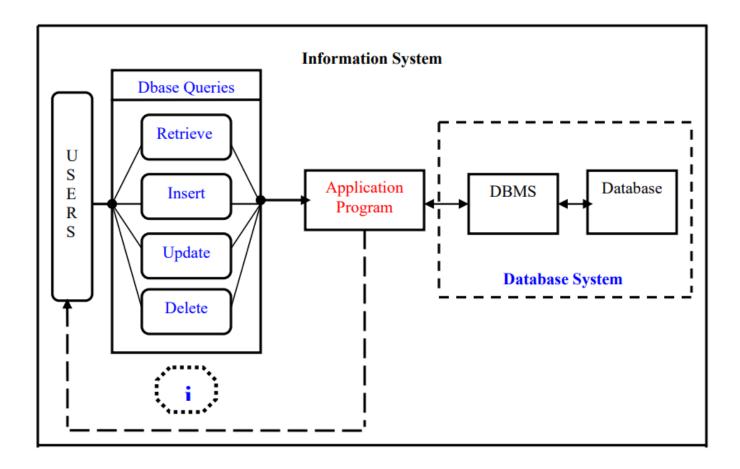
INTRODUCTION

Employee management system is an application based system, having two applications developed, one for employers to manage employee details and another for employees to mark their attendance. Every organization whether government or private uses an information system to store data of their staff. However, in India it is found that many small scale industries use pen and paper to keep a record. However, there are many advanced technology systems available that can do this work but they all are costly for these low level industries. Employee Management system is an application that enables users to create and store Employee Records. The application also provides facilities of a payroll system which enables user to generate Pay slips too. This application is helpful to department of the organization which maintains data of employees related to an organization. In this world of growing technologies everything has been computerized. With large number of work opportunities the Human workforce has increased. Thus there is a need of a system which can handle the data of such a large number of Employees in an organization. This project simplifies the task of maintain records because of its user friendly nature.

LITERATURE REVIEW

Most of the contemporary Information systems are based on the Database technology as a collection of logically related data, and DBMS as a software system allowing the users to define, create, maintain and control access to the database. The process of constructing such kind of systems is not so simple. It involves a mutual development of application program and database. The application program is actually the bridge between the users and the database, where the data is stored. Thus, the well-developed application program and database are very important for the reliability, flexibility and functionality of the system. The so defined systems differentiate to each other and their development comprises a great variety of tasks.

Architectural diagram:-



SYSTEM DESIGN AND IMPLEMENTATION

- Style.css
- Index.html

The above come under Angular components.

HTML:

The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as <imp /> and <imput /> directly introduce content into the page. Other tags such as surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags but use them to interpret the content of the page.

HTML can embed programs written in a scripting language such as JavaScript, which affects the behavior and content of web pages. Inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), former maintainer of the HTML and current maintainer of the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997.[2] A form of HTML, known as HTML5, is used to display video and audio, primarily using the <canvas> element, in collaboration with JavaScript.

CSS:-

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML (including XML dialects such as SVG, MathML or XHTML). CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of content and presentation, including layout, colors, and fonts. This separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, which reduces complexity and repetition in the structural content; and enable the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

Separation of formatting and content also makes it possible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speech-based browser or screen reader), and on Braille-based tactile devices. CSS also has rules for alternate formatting if the content is accessed on a mobile device.

The name *cascading* comes from the specified priority scheme to determine which style rule applies if more than one rule matches a particular element. This cascading priority scheme is predictable.

The CSS specifications are maintained by the World Wide Web Consortium (W3C). Internet media type (MIME type) text/css is registered for use with CSS by RFC 2318. The W3C operates a free CSS validation service for CSS documents.

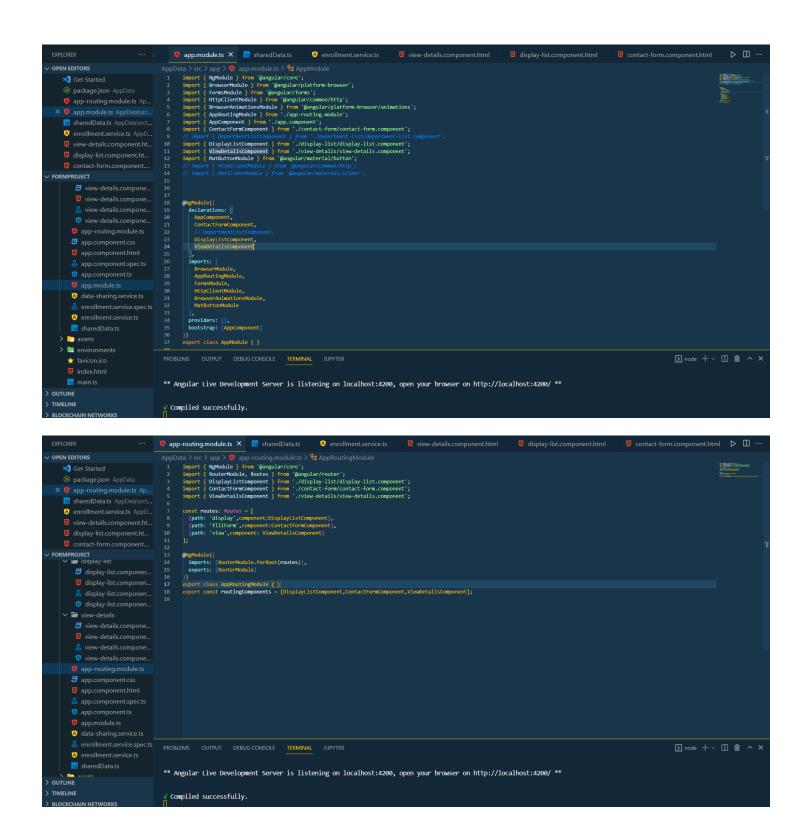
Angular:

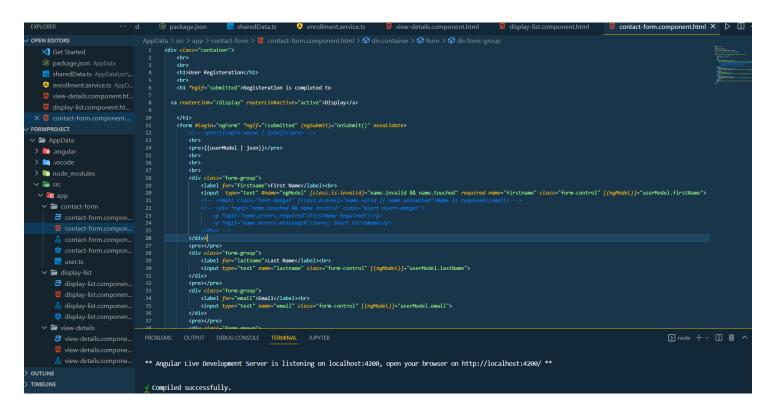
Angular (also referred to as "Angular 2+") is a TypeScript-based free and open-source web application framework led by the Angular Team at Google and by a community of individuals and corporations. Angular is a complete rewrite from the same team that built AngularJS.

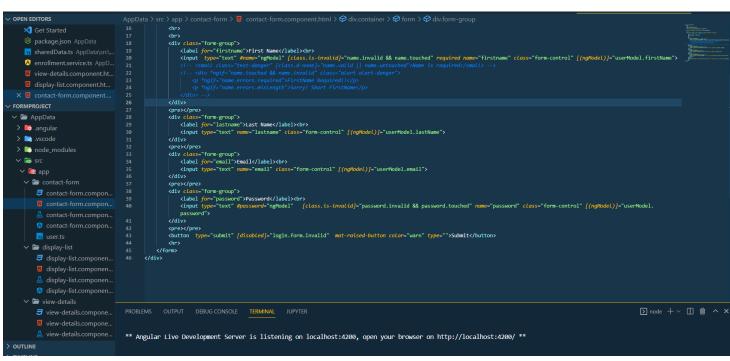
Node.js:

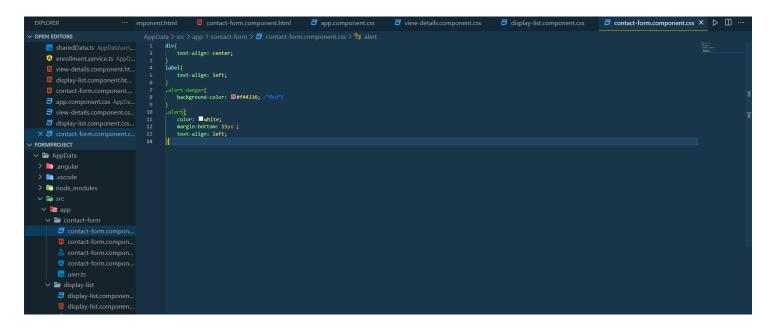
Node.js is a cross-platform runtime environment and library for running JavaScript applications outside the browser. It is used for creating server-side and networking web applications. It is open source and free to use. It can be downloaded from this link https://nodejs.org/en/. Many of the basic modules of Node.js are written in JavaScript. Node.js is mostly used to run real-time server applications. The definition given by its official documentation is as follows: Node.js is a platform built on Chrome's JavaScript runtime for easily building fast and scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

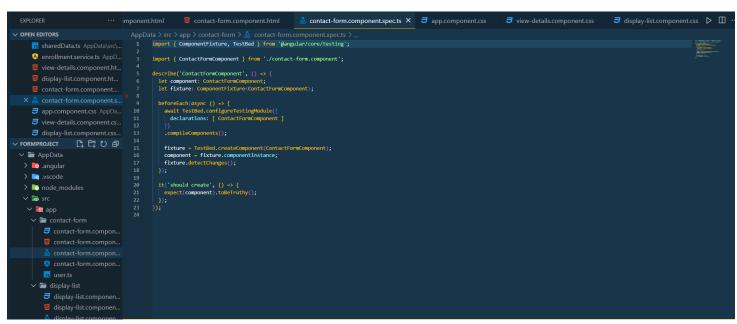
SOURCE CODE:-





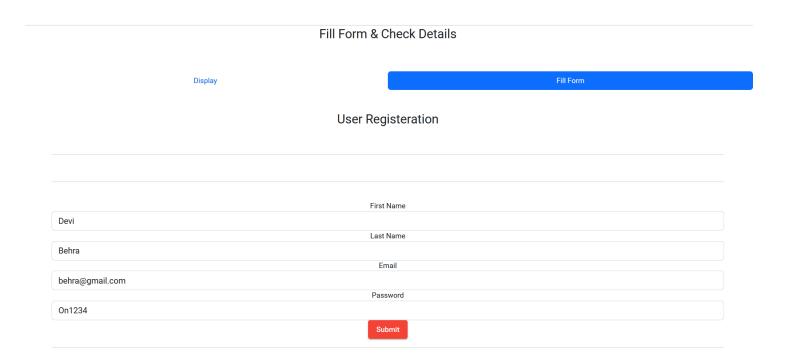






```
display-list.component.spec.ts
                                                                           view-details.component.spec.ts
                                                                                                                   Js EmployeeSchema.js
                                                                                                                                                server.js X
server > Js server.js > � app.post('/enroll') callback > � newEmployee.save() callback > ❷ resp
      var EmployeeModel = require('./EmployeeSchema');
mongoose.Promise = global.Promise;
mongoose.connect('mongodb://localhost:27017/Company', {useNewUrlParser: true, useUnifiedTopology: true});
      app.get('/', function (req, res) {
    res.send('Hello World');
       app.post('/enroll',(req,res)=>{
          console.log(req.body)
          console.log(error);
                   var resp 📲
                       "message":"Failure",
                    "success":false
29
30
                   res.send(resp);
                  var resp ={
                       "message":"Success",
                       "success":true
                  res.send(resp);
39
40
              console.error(error)
```

OUTPUT:-



Fill Form & Check Details

Display			Fill Form		
First Name	Last Name	Email		View Data	Delete Data
Devi	Behra	behra@gmail.com		View	Delete

CONCLUSION

In conclusion, the quest to conquer the manual method of filling forms has been turned into an online experience.

REFERENCES

- Educator and learning experience : https://www.javatpoint.com/
- For angular docs; https://angular.io/docs
- For node.js : https://nodejs.org/
- https://www.w3schools.com/

COMPANY DETAILS:-

NAME:- Larsen and Tubro

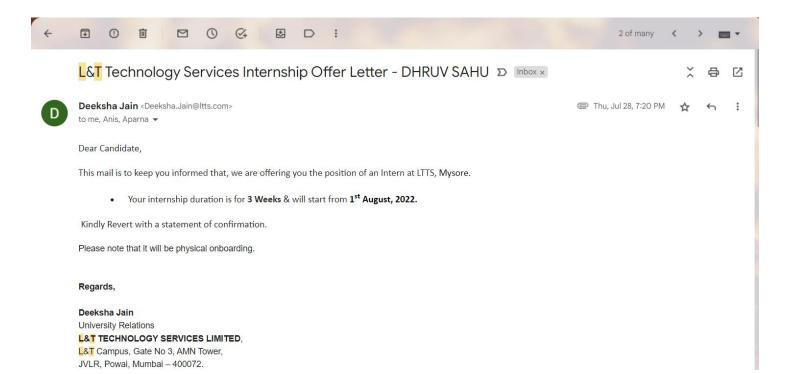
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L&T-TS HR/99009478

6 September 2022

CIN: L72900MH2012PLC232169

Mr.Dhruv Sahu

INTERNSHIP CERTIFICATE

This has reference to your Completion of Internship under Genesis Programme in L&T Technology Services Limited (LTTS).

Relevant details of internship during the tenure with LTTS are as under.

INTERNSHIP ID : 99009478
INTERNSHIP START DATE : 01-Aug-22
INTERNSHIP END DATE : 23-Aug-22
LOCATION : Mysore

We wish you success in your future endeavours.

Yours Sincerely,

For L&T Technology Services Limited,

Ashwin J

Senior Manager - HR Employee Relations & Compliance