**A SUMMER INTERNSHIP REPORT**

**ON**

**FULL STACK WEB DEVELOPMENT**

**BUILDING WEATHER REPORT APPLICATION**

**A Report submitted in partial fulfillment for the award of degree of**

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

**Submitted by**

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UNDER THE ESTEEMED GUIDANCE OF

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**Declaration**

I, S.PRIYANKA a student of B. Tech\_ Program, Reg. No. 20NN1A0225 of the Department of ELECTRICAL AND ELECTRONICS ENGINEERING College do hereby declare that I have completed the mandatory internship from 18-07-2022 to 0-09-2022 in TALENTIO.IO under the Faculty Guide ship of Mrs. S. L . SIRISHA, Department of \_VIGNAN’S NIRULA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOMENS

*(Signature and Date)*

**Official Certification**



### 

### This is to certify that S.PRIYANKA Reg. No. 20NN10225 Has completed his/her Internship in TALENTIO.IO on Building Weather Report Applicationunder my supervision as a part of partial fulfillment of the requirement for the Degree VIGNAN’S NIRULA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOMENS of

FacultyGuide Head of theDepartment

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# Certificate from Intern Organization



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**ACKNOWLEDGMENT**

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## **CHAPTER 1:EXECUTIVE SUMMARY**

**Weather Report** is the application of science and technology [to predict](https://en.wikipedia.org/wiki/Forecasting) the conditions of the [atmosphere](https://en.wikipedia.org/wiki/Earth%27s_atmosphere) for a given location and time. People have attempted to predict the weather informally for [millennia](https://en.wikipedia.org/wiki/Millennia) and formally since the 19th century. Weather forecasts are made by collecting quantitative data about the current state of the atmosphere, land, and ocean and using [meteorology](https://en.wikipedia.org/wiki/Meteorology) to project how the atmosphere will change at a given place.

Once calculated manually based mainly upon changes in [barometric pressure](https://en.wikipedia.org/wiki/Atmospheric_pressure), current weather conditions, and sky condition or cloud cover, weather forecasting now relies on [computer-based models](https://en.wikipedia.org/wiki/Numerical_weather_prediction) that take many atmospheric factors into account. Human input is still required to pick the best possible forecast model to base the forecast upon, which involves pattern recognition skills, [teleconnections](https://en.wikipedia.org/wiki/Teleconnection), knowledge of model performance, and knowledge of model biases. The inaccuracy of forecasting is due to the [chaotic](https://en.wikipedia.org/wiki/Chaos_theory) nature of the atmosphere, the massive computational power required to solve the equations that describe the atmosphere, the land, and the ocean, the error involved in measuring the initial conditions, and an incomplete understanding of atmospheric and related processes. Hence, forecasts become less accurate as the difference between current time and the time for which the forecast is being made (the *range* of the forecast) increases. The use of ensembles and model consensus help narrow the error and provide confidence level in the forecast.

There is a vast variety of end uses to weather forecasts. [Weather warnings](https://en.wikipedia.org/wiki/Weather_warning) are important forecasts because they are used to protect life and property. Forecasts based on temperature and [precipitation](https://en.wikipedia.org/wiki/Precipitation_(meteorology)) are important to agriculture, and therefore to traders within commodity markets. Temperature forecasts are used by utility companies to estimate demand over coming days. On an everyday basis, many use weather forecasts to determine what to wear on a given day. Since outdoor activities are severely curtailed by heavy rain, snow and [wind chill](https://en.wikipedia.org/wiki/Wind_chill), forecasts can be used to plan activities around these events, and to plan ahead and survive them.

Weather forecasting is a part of the economy, for example, in 2009, the US spent approximately $5.1 billion on weather forecasting, producing benefits estimated at six times as much.

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## **CHAPTER2:OVERVIEWOFTHEORGANIZATION**

It was not until the invention of the [electric telegraph](https://en.wikipedia.org/wiki/Electrical_telegraph) in 1835 that the modern age of weather forecasting began. Before that, the fastest that distant weather reports could travel was around 160 kilometres per day (100 mi/d), but was more typically 60–120 kilometres per day (40–75 mi/day) (whether by land or by sea). By the late 1840s, the telegraph allowed reports of weather conditions from a wide area to be received almost instantaneously,allowing forecasts to be made from knowledge of weather conditions further [upwind](https://en.wikipedia.org/wiki/Windward_and_leeward).

The two men credited with the birth of forecasting as a science were an officer of the [Royal Navy](https://en.wikipedia.org/wiki/Royal_Navy) [Francis Beaufort](https://en.wikipedia.org/wiki/Francis_Beaufort) and his [protégé](https://en.wikipedia.org/wiki/Prot%C3%A9g%C3%A9) [Robert FitzRoy](https://en.wikipedia.org/wiki/Robert_FitzRoy). Both were influential men in [British](https://en.wikipedia.org/wiki/United_Kingdom_of_Great_Britain_and_Ireland) naval and governmental circles, and though ridiculed in the press at the time, their work gained scientific credence, was accepted by the Royal Navy, and formed the basis for all of today's weather forecasting knowledge.

Beaufort developed the [Wind Force Scale](https://en.wikipedia.org/wiki/Beaufort_scale) and Weather Notation coding, which he was to use in his journals for the remainder of his life. He also promoted the development of reliable tide tables around British shores, and with his friend [William Whewell](https://en.wikipedia.org/wiki/William_Whewell), expanded weather record-keeping at 200 British [coast guard](https://en.wikipedia.org/wiki/Coast_guard) stations.

Robert FitzRoy was appointed in 1854 as chief of a new department within the [Board of Trade](https://en.wikipedia.org/wiki/Board_of_Trade) to deal with the collection of weather data at sea as a service to [mariners](https://en.wikipedia.org/wiki/Sailor). This was the forerunner of the modern [Meteorological Office](https://en.wikipedia.org/wiki/Met_Office). All ship captains were tasked with collating data on the weather and computing it, with the use of tested instruments that were loaned for this purpose.

A storm in October 1859 that caused the loss of the [*Royal Charter*](https://en.wikipedia.org/wiki/Royal_Charter_(ship)) inspired FitzRoy to develop charts to allow predictions to be made, which he called *"forecasting the weather"*, thus coining the term "weather forecast. Fifteen land stations were established to use the [telegraph](https://en.wikipedia.org/wiki/Telegraph) to transmit to him daily reports of weather at set times leading to the first gale warning service. His warning service for shipping was initiated in February 1861, with the use of [telegraph communications](https://en.wikipedia.org/wiki/Electric_telegraph). The first daily weather forecasts were published in [*The Times*](https://en.wikipedia.org/wiki/The_Times) in 1861.[[16]](https://en.wikipedia.org/wiki/Weather_forecasting#cite_note-BBC-16) In the following year a system was introduced of hoisting storm warning cones at the principal ports when a gale was expected.[18] The *"Weather Book"* which FitzRoy published in 1863 was far in advance of the scientific opinion of the time.

As the electric telegraph network expanded, allowing for the more rapid dissemination of warnings, a national observational network was developed, which could then be used to provide synoptic analyses. Instruments to continuously record variations in meteorological parameters using [photography](https://en.wikipedia.org/wiki/Photography#Science_and_forensics) were supplied to the observing stations from [Kew Observatory](https://en.wikipedia.org/wiki/King%27s_Observatory) – these cameras had been invented by [Francis Ronalds](https://en.wikipedia.org/wiki/Francis_Ronalds) in 1845 and his [barograph](https://en.wikipedia.org/wiki/Barograph) had earlier been used by FitzRoy.

To convey accurate information, it soon became necessary to have a standard vocabulary describing clouds; this was achieved by means of a series of classifications first achieved by [Luke Howard](https://en.wikipedia.org/wiki/Luke_Howard) in 1802, and standardized in the [*International Cloud Atlas*](https://en.wikipedia.org/wiki/International_Cloud_Atlas) of 1896.

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**CHAPTER 3: INTERNSHIP PART**

ACTIVITY LOG FOR THE FIRST WEEK

|  |  |  |  |
| --- | --- | --- | --- |
| **Day & Date** | **Brief description of the daily activity** | **Learning Outcome** | **Person In- Charge Signature** |
| Day – 1 | Introduction about the Internship we learn in Day 1. | We have learn about the overall internship project. |  |
| Day - 2 | We learn Html Introduction | What is Html?  Html syntax  A simple Html Document  Html elements  Html page Structure  Html syntax |  |
| Day – 3 | We learn how to insert images in webpages and links. Also learned about html lists and how to create rows and columns and how to make webpage more attractive by using styles. Html div tags used for how to divide a webpage. And how to display a web page within a web page. | Html images  Html links  Html lists  Html tables  Html styles  Html iframes  Div tags |  |
| Day – 4 | We learn how to insert images in webpages and links. Also learned about html lists and how to create rows and columns and how to make webpage more attractive by using styles. Html div tags used for how to divide a webpage. And how to display a web page within a web page. | Html images  Html links  Html lists  Html tables  Html styles  Html iframes  Div tags |  |
| Day – 5 | In day 5 we learn about the CSS. How the CSS syntax and colors for the webpage and styles, font sizes, borders and make how the beautiful webpage that we created using CSS. And how to created buttons and how to write comments in CSS. | CSS syntax  CSS colors  CSS styles  CSS font Sizes  CSS Buttons  CSS Borders  CSS comments |  |
| Day –6 | In Day 6 overall we learn about html and CSS and create a small webpage. | We create a small web page by using html and CSS. |  |

Page No :

**WEEKLY REPORT**

**WEEK – 1 (From 18 July to 23 July )**

|  |
| --- |
| ***Objective of the Activity Done:***  Acquire skills in html and CSS concepts like html forms, html tables div tags, images, colors, styles, font size. |
| **Detailed Report:**  In this 1 week we learned about html and CSS.  In the first week of internship, we have learnt about html and CSS.  Overall, we learned how to create a webpage and how it can be made look attractive by using CSS.  We learned how a webpage can be created, how can we create links and how to insert images in webpages.  We also learned how tables are created in webpages, how forms are created, how lists are created and also about the types of lists. We also learned how to divide a webpage into parts by using frames.  In this process we also learned what is CSS and how it is helpful.  We learned that CSS is used for styling the webpage and make it look attractive.  How styles are applied to texts, images of the webpages, how the webpage is divided into parts by using div element.  In the week 1 we learned HTML is the language for describing the structure of web pages. CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. Overall, we learned how to create a webpage and how it can be made look attractive by using CSS. We also learned how inline and block styling is done. |
| CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. |
| Task 1 :Program On Html  CODE   |  | | --- | | html> | |  |  | <h1> | |  |  | YOGA THE ETERNAL | |  |  | </h1> | |  |  | <p> | |  |  | Yoga is a group of physical,Mental and spiritualpractise which originate frm assain india. | |  |  | </p> | |  |  | <img src="https://cdn.glitch.global/2a9a44f1-f650-444e-88c7-937707da00c2/afb58821-a793-4cec-a51d-16c1876d4539.yoga.jpg?v=1665593268176" alt="this is a yoga pic" | |  |  | </html> |   OUTPUT: |

*Page No :*

*ACTIVITY LOG FOR THE SECOND WEEK*

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| --- | --- | --- | --- |
| **Day & Date** | **Brief description of the daily activity** | **Learning Outcome** | **Person In- Charge Signature** |

|  |  |  |  |
| --- | --- | --- | --- |
| Day – 1 | Introduction to JavaScript and its uses on the web. | We have learned about  JAVA SCRIPT intro  JAVA SCRIPT usage  JAVA SCRIPT applications |  |
| Day - 2 | Learned about types of data types and variables in JavaScript. And also implemented loops for condition purposes | JAVA SCRIPT Variables  JAVA SCRIPT data types, JAVA SCRIPT loops. |  |
| Day – 3 | Knowing about the array usage and storing different values, Array Methods. | JAVA SCRIPT Arrays  ARRAY METHOS  STORING VALUES |  |
| Day – 4 | Learned about versions in functions like ES5 and ES6. | JAVA SCRIPT Functions  FUNCTION SYNTAX  TYPES OF FUNCTIONS |  |
| Day – 5 | Grabbed knowledge about String, string methods, and templates. | JAVASCRIPT Strings  STRING METHODS  STING TEMPLATES |  |
| Day –6 | Gain an understanding of Objects, their methods, Prototypes, and constructors. | JAVASCRIPT Object  OBJECT METHODS  PROTOTYPES  CONSTRUCTORS |  |

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**WEEKLY REPORT**

**WEEK – 2 (From 25 July to 30 July )**

|  |
| --- |
| **Objective of the Activity Done:**  Acquire skills in JAVASCRIPT concepts like Variables, data types, loops, Arrays, Functions, Strings, and Objects. |
| **Detailed Report:**  In the 2nd week of our course, we learned about "JAVA SCRIPT". JavaScript is a scripting language used to make web pages interactive.  If we use only HTML the web page we have designed will not look good. That means it is not attractive. So, to make our web page we use some CSS is used. If we want to draw some conditions over the situations that we are putting on our web page then we should try Javascript.  We have learned about creating variables and data types, and loops used to iterate in required situations like if else, while, etc. Variables are the keys for storage and we are having data types for them, like var, const etc. For checking conditions we have loops like if loop, if else loop, and while loop.  also learned about array storage, its operation, and array methods. Also different types of functions, and their syntax. Implemented some different syntactical functions and used them in web page implementation. The array is the most useful data structure which makes better use when we want to store objects of the same kind. And it has many methods used for altering the array values. Functions are written to reduce code rewriting. We are having 2 types of function syntax.  Also learned about objects and their creation. We also learned about events in javascript. Arrays are used to store the same kind of values only. When it comes for storing different kinds of values here comes the usage of Objects. The object can store different kinds of values. For exam storing details of a student having a name, roll no, address, phone no, email, etc. And also we can modify our object items by using some methods.  As day-by-day there is continuous improvement in the browsers, so JavaScript gained popularity for making robust web applications. We can understand it by taking the example of **Google Maps**. In Maps user just requires to click and drag the mouse; the details are visible just by a click. There is a use of JavaScript behind these concepts.  Finally, we have learned to design the web page in an attractive and in our wish manner.  **2.In This week I Done My Week Report on JAVASCRIPT Report on LOGIN PAGE**   |  | | --- | | <html> | |  | <html> | |  | <head> | |  | <meta charset="utf-8"> | |  | <link rel="icon" href="https://cdn-icons-png.flaticon.com/512/252/252035.png"> | |  | <title>Weather Info</title> | |  | <meta charset="utf-8"> | |  | <meta name="viewport" content="width=device-width" initial-scale=1> | |  | <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous"> | |  | <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p" crossorigin="anonymous"></script> | |  | <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.8.1/font/bootstrap-icons.css"> | |  | <style type="text/css"> | |  | body{ | |  | background-image: url(https://media.istockphoto.com/photos/graduated-blue-summer-sky-genuine-photograph-picture-id1138440263?b=1&k=20&m=1138440263&s=170667a&w=0&h=EkMXQJvyUo5sLphvrZOREehPr4b9sVzrUaVxPM91eek=); | |  | background-repeat: no-repeat; | |  | background-size: 100%; | |  | } | |  | .loc{ | |  | color: #072f88; | |  | font-family: initial; | |  | } | |  | .loc1{ | |  | color: #f7fbfe; | |  | } | |  | </style> | |  | </head> | |  | <body> | |  | <div align="center" class="mt-3 loc"><h2>Location :<i class="loc1"> <%= location %></i></h2> </div> | |  |  | |  | <div class="container mt-3" style="box-shadow: 0 2px 10px rgba(0,0,200,0.3); height: 450px;width: 400px;" align="text-center"> | |  |  | |  | <h3 class="loc">Region:<i class="loc1"> <%= region %></i></h3> | |  | <h3 class="loc">Country:<i class="loc1"> <%= country %></i></h3> | |  | <h3 class="loc">Local Time:<i class="loc1"> <%= loctime %></i></h3> | |  | <h3 class="loc">Temperature: <i class="loc1"><%= temp\_c %><span>&#176;</span>C / <%= temp\_f %><span>&#176;</span>F</i></h3> | |  | <h3 class="loc">Wind Speed:<i class="loc1"> <%= wind\_kph %>KPH</i></h3> | |  | <h3 class="loc">Humidity:<i class="loc1"> <%= humi %></i></h3> | |  | <h3 class="loc">Feels like:<i class="loc1"> <%= feels\_c %><span>&#176;</span>C / <%= feels\_f %><span>&#176;</span>F</i></h3> | |  | <h3 class="loc">Condition: <i class="loc1"><%= condition %><img src="<%= icon %>"></i></h3> | |  | <div align="center"> | |  | <form action="/locsubmit" method="GET"><button class="btn btn-primary" type="submit">Go Back</button></form></div> | |  | </div> | |  | </body> | |  | </html> |   OUTPUT : |

Page No :

**ACTIVITY LOG FOR THE THIRD WEEK**

|  |  |  |  |
| --- | --- | --- | --- |
| **Day & Date** | **Brief description of the daily activity** | **Learning Outcome** | **Person In- Charge Signature** |
| Day – 1 | In this we learn how to create web pages using html and CSS. We used html for design and CSS for styling. | And learn how to run and we see the output of our code. |  |
| Day - 2 | And we learn how to write a code for signup page, we use href links and classes and div tags for signup pages. We use form tags. | We display signup page  Href links  Html buttons  Html forms  Html labels |  |
| Day – 3 | We learn how to write a email tag and password tag in sign page and we have submit button to display the nest page.  We use div tags for division of  webpage. | We display sign page  Div. tags  Html classes |  |
| Day – 4 | We use CSS for styling to my webpage and that looks beautiful and the style and the background images for attractive webpage. | CSS colors  CSS styles  CSS Box modeling |  |
| Day – 5 | We use JavaScript making webpage more dynamic. | Loops  If loops  Else if  Else  While loops |  |
| Day –6 | we use html, CSS and JavaScript. | Finally, we create webpage by using these elements. |  |

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**WEEKLY REPORT**

**WEEK – 3 (From 1 August to 6 August )**

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| --- |
| **Objective of the Activity Done:** |
| **Detailed Report: In this week we have done about CSS and HTML**  **We have developed a static web page using HTML and CSS**  **We have created a hotel website as shown below**   |  | | --- | | <!DOCTYPE html> | |  | <html> | |  | <head> | |  | <meta charset="utf-8"> | |  | <link rel="icon" href="https://cdn-icons-png.flaticon.com/512/252/252035.png"> | |  | <title>Weather Info</title> | |  | <meta charset="utf-8"> | |  | <meta name="viewport" content="width=device-width" initial-scale=1> | |  | <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous"> | |  | <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p" crossorigin="anonymous"></script> | |  | <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.8.1/font/bootstrap-icons.css"> | |  | <style type="text/css"> | |  | body{ | |  | background-image: url(https://media.istockphoto.com/photos/graduated-blue-summer-sky-genuine-photograph-picture-id1138440263?b=1&k=20&m=1138440263&s=170667a&w=0&h=EkMXQJvyUo5sLphvrZOREehPr4b9sVzrUaVxPM91eek=); | |  | background-repeat: no-repeat; | |  | background-size: 100%; | |  | } | |  | .loc{ | |  | color: #072f88; | |  | font-family: initial; | |  | } | |  | .loc1{ | |  | color: #f7fbfe; | |  | } | |  | </style> | |  | </head> | |  | <body> | |  | <div align="center" class="mt-3 loc"><h2>Location :<i class="loc1"> <%= location %></i></h2> </div> | |  |  | |  | <div class="container mt-3" style="box-shadow: 0 2px 10px rgba(0,0,200,0.3); height: 450px;width: 400px;" align="text-center"> | |  |  | |  | <h3 class="loc">Region:<i class="loc1"> <%= region %></i></h3> | |  | <h3 class="loc">Country:<i class="loc1"> <%= country %></i></h3> | |  | <h3 class="loc">Local Time:<i class="loc1"> <%= loctime %></i></h3> | |  | <h3 class="loc">Temperature: <i class="loc1"><%= temp\_c %><span>&#176;</span>C / <%= temp\_f %><span>&#176;</span>F</i></h3> | |  | <h3 class="loc">Wind Speed:<i class="loc1"> <%= wind\_kph %>KPH</i></h3> | |  | <h3 class="loc">Humidity:<i class="loc1"> <%= humi %></i></h3> | |  | <h3 class="loc">Feels like:<i class="loc1"> <%= feels\_c %><span>&#176;</span>C / <%= feels\_f %><span>&#176;</span>F</i></h3> | |  | <h3 class="loc">Condition: <i class="loc1"><%= condition %><img src="<%= icon %>"></i></h3> | |  | <div align="center"> | |  | <form action="/locsubmit" method="GET"><button class="btn btn-primary" type="submit">Go Back</button></form></div> | |  | </div> | |  | </body> | |  | </html> | |

***Page No:***

**ACTIVITY LOG FOR THE FOURTH WEEK**

|  |  |  |  |
| --- | --- | --- | --- |
| **Day & Date** | **Brief description of the daily activity** | **Learning Outcome** | **Person In- Charge Signature** |
| Day – 1 | We have some introduction to NODE JS. | Knowing about what is NODE JS  USAGE  ADVANTAGES |  |
| Day - 2 | Have steps regarding downloading and install of NODE. And setting up of things required. | DOWNLOADING node js  INSTALLING node js  Setting up REQUIREMENTS |  |
| Day – 3 | Learned about built-in modules and their usage.  Like HTTP Modules. | NODE JS Modules |  |
| Day – 4 | Learned about built-in modules and their usage.  Like HTTP Modules. | NODE JS Modules |  |
| Day – 5 | We build a telegram chatbot using NODE JS. | Application\_1 of NODE JS  TELEGRAM CHAT BOT. |  |
| Day –6 | Constructed a form using node js with the help of database connectivity. | Application\_2 of NODE JS using Database.  SIGN-IN/SIGN-UP FORM |  |

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**WEEKLY REPORT**

**WEEK – 4 (From 16 August to 22 August)**

|  |
| --- |
| **Objective of the Activity Done:**  Acquire skills in NODE JS on modules, packages, upload files, database connectivity, and some applications regarding them. |
| **Detailed Report:**  In the fourth week of this course, we have learned about “NODE JS”.  Node js is used to make web pages dynamic. Node.js shines in real-time web applications employing push technology over WebSocket. After over 20 years of stateless-web based on the stateless request-response paradigm, we finally have web applications with real-time, two-way connections, where both the client and server can initiate communication, allowing them to exchange data more freely.  We have grabbed knowledge by downloading and installing node js on my computer with the steps followed.'  **Step 1:** Download Node.js Installer for Windows  **Step 2:** Run the installation  **Step 3:** Continue with the installation steps  **Step 4:** Accept the terms and conditions  **Step 5:** Set up the path  Learned about modules U1p8 and their usage and applied while building web pages. ( modules like HTTP)  Also learned about, packages, their usage, downloading, and implementation in real-time.  We have done 2 js related projects node js.   1. Telegram chatbot 2. Dynamic web page.   **4.In This Week I Done My Week Report On INTRODUCTION TO NODE.JS**  **Using Telegram Chatbot:**  var TelegramBot = require('node-telegram-bot-api');  var token = '5612847573:AAGK6nxQKd9zoUF36YIxvrfy1Zv\_ab8ZsIM';  var bot = new TelegramBot(token, {polling: true});  bot.on('message', function(madam){     console.log(madam.text);      if (madam.text == "hi friend") {      bot.sendMessage(madam.chat.id,"hi sir");      }  else{      if (madam.text == "emchestunnav") {      bot.sendMessage(madam.chat.id,"kaali friend");      }      else {               if(madam.text == "ok then")         {             bot.sendMessage(madam.chat.id,"ok take care");          }else{              bot.sendMessage(madam.chat.id,"not understood");          }        }}});  OUTPUT: |

**Page No :**

**ACTIVITY LOG FOR THE FIFTH WEEK**

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| --- | --- | --- | --- |
| **Day & Date** | **Brief description of the daily activity** | **Learning Outcome** | **Person In- Charge Signature** |

|  |  |  |  |
| --- | --- | --- | --- |
| Day – 1 | We have some introduction to EXPRESS JS | Knowing about Express js  Usages  Advantages |  |
| Day - 2 | Have steps regarding downloading and install of EXPRESS. And setting up of things required. | DOWNLOADING Express js  INSTALLING Express js  Setting up REQUIREMENTS |  |
| Day – 3 | Learn about Built-in modules and their usage  Like how does the crud corresponds to  HTTP methods | Express js modules  HTTP methods are  POST  GET  PUT |  |
| Day – 4 | And we learn the how to use a express js,  Hello world Example with Express. And we learn how to routing. And how to upload file. | Hello world Example with Express  Basic routing  Express js File upload |  |
| Day – 5 | We learn what is ejs and learn how to install and we create Dynamic web page using Express Js | Creating crud Application with node, express |  |
| Day –6 | Login Application | we create Login application with Express and node |  |

**Page No :**

**WEEKLY REPORT**

**WEEK – 5 (From 23 August to 29 August)**

|  |
| --- |
| **Objective of the Activity Done:**  Acquire skills in EXPRESS JS on modules, packages, upload files, database connectivity, and some applications regarding them. |
| **Detailed Report:**  In the fifth week of this course, we have learned about “EXPRESS JS”. We learn how to install express js. By using the syntax npm install express by command prompt.  We have grabbed the knowledge of downloading and installing express js on my computer by using following steps.  Step 1: Download **.msi** file of Node.js from **nodejs.org** according to your system requirements.  Step 2: Run command prompt (cmd.exe).  Step 3: Type node **–v** to check if the node is deployed successfully. It should respond with **v#.#.#**. Restart your system dependencies automatically by typing the **"npm install”** command.  Step 5: Execute the "node app" to run the server with the server root folder.  Step 6: Allow access to the application through the Windows Firewall.  Express.js tutorial provides basic and advanced concepts of Express.js. Our Express.js tutorial is designed for beginners and professionals both. Express.js is a web framework for Node.js. It is a fast, robust and asynchronous in nature.  We have learned about express js response, post, routing. We have learned how to upload file in express js and learn express js templates. we learned about how to use the express js and downloading and can use in real-time. We done a with login application by using node js, express js and Dynamic web page.  if it responds incorrectly.  Step 4:  Install and update all  **5.InThis Week I Done Week Report On Express JS**   |  | | --- | | <!DOCTYPE html> | |  | <html> | |  | <head> | |  | <meta charset="utf-8"> | |  | <link rel="icon" href="https://cdn-icons-png.flaticon.com/512/252/252035.png"> | |  | <title>Weather Info</title> | |  | <meta charset="utf-8"> | |  | <meta name="viewport" content="width=device-width" initial-scale=1> | |  | <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous"> | |  | <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p" crossorigin="anonymous"></script> | |  | <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.8.1/font/bootstrap-icons.css"> | |  | <style type="text/css"> | |  | body{ | |  | background-image: url(https://media.istockphoto.com/photos/graduated-blue-summer-sky-genuine-photograph-picture-id1138440263?b=1&k=20&m=1138440263&s=170667a&w=0&h=EkMXQJvyUo5sLphvrZOREehPr4b9sVzrUaVxPM91eek=); | |  | background-repeat: no-repeat; | |  | background-size: 100%; | |  | } | |  | .loc{ | |  | color: #072f88; | |  | font-family: initial; | |  | } | |  | .loc1{ | |  | color: #f7fbfe; | |  | } | |  | </style> | |  | </head> | |  | <body> | |  | <div align="center" class="mt-3 loc"><h2>Location :<i class="loc1"> <%= location %></i></h2> </div> | |  |  | |  | <div class="container mt-3" style="box-shadow: 0 2px 10px rgba(0,0,200,0.3); height: 450px;width: 400px;" align="text-center"> | |  |  | |  | <h3 class="loc">Region:<i class="loc1"> <%= region %></i></h3> | |  | <h3 class="loc">Country:<i class="loc1"> <%= country %></i></h3> | |  | <h3 class="loc">Local Time:<i class="loc1"> <%= loctime %></i></h3> | |  | <h3 class="loc">Temperature: <i class="loc1"><%= temp\_c %><span>&#176;</span>C / <%= temp\_f %><span>&#176;</span>F</i></h3> | |  | <h3 class="loc">Wind Speed:<i class="loc1"> <%= wind\_kph %>KPH</i></h3> | |  | <h3 class="loc">Humidity:<i class="loc1"> <%= humi %></i></h3> | |  | <h3 class="loc">Feels like:<i class="loc1"> <%= feels\_c %><span>&#176;</span>C / <%= feels\_f %><span>&#176;</span>F</i></h3> | |  | <h3 class="loc">Condition: <i class="loc1"><%= condition %><img src="<%= icon %>"></i></h3> | |  | <div align="center"> | |  | <form action="/locsubmit" method="GET"><button class="btn btn-primary" type="submit">Go Back</button></form></div> | |  | </div> | |  | </body> | |  | </html> |   **OUTPUT:** |

**Page No :**

**ACTIVITY LOG FOR THE SIXTH WEEK**

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| --- | --- | --- | --- |
| **Day & Date** | **Brief Description Of The Daily Activity** | **Learning Outcome** | **Person In- Charge Signature** |

|  |  |  |  |
| --- | --- | --- | --- |
| Day – 1 | Introduction to react js,  And its usage. Knowing the applications of React js and its history. | Learned about what is  REACT JS  USAGE  APPICATIONS  HISTORY |  |
| Day - 2 | Learned about classes in react, constructors and syntaxes. Also learned about variables and their types. | CLASSES  CONSTRUCTORS  VARIABLES  DATA TYPES |  |
| Day – 3 | Learned about modifications from functions to arrow functions. Made some code(like palindrome, Armstrong) using these arrow functions. | ARROW FUNCTIONS  FUNCTIONS  Programs using arrow functions |  |
| Day – 4 | Gain knowledge about arrays and changed syntax from other languages and their types. Also learned about array methods. | ARRAYS  ARRAY METHODS  SYNTAX |  |
| Day – 5 | Learned about destructuring that is applied to arrays and object. And did some examples regarding them. | DESTRUCTURING  ON ARRAYS,  ON OBJECT |  |
| Day –6 | Learned about operators like Spread Operators and Ternary Operators in react js. | OPERATORS  SPREAD OPERATOR  TERNARY OPERATOR |  |

**WEEKLY REPORT**

**WEEK – 6 (From 30 August to 6 September)**

|  |
| --- |
| **Objective of the Activity Done:**  Acquire skills in “REACT JS” topics like what it is used for, classes, variables, arrow functions, arrays, destructuring, and about some operators. |
| **Detailed Report:**  In the 6th week of this course, we learned about “REACT JS”.  React is used for building interactive user interfaces and web applications quickly and efficiently with significantly less code than you would with vanilla JavaScript. React is a JavaScript library for building user interfaces. React is used to build single-page applications. React allows us to create reusable UI components.  In this, we have learned about classes and how they are implemented and constructors building using classes. When creating a React component, the component's name must start with an upper case letter. The component has to include the extends React. Component statement, this statement creates an inheritance to React.  Also learned about, variables and their data types like let, const, and var. And also learned about, arrow functions those are differ from normal functions in their syntax. Done some example programs in react using arrow functions.  Gained knowledge across the array topic and their operations and methods.  An Interesting topic that I learned is about destructuring which is a applied to arrays and objects.  It handles like, we can access or take part of/required data by using that. Destructuring is a simple concept introduced in React ES6. It is a JavaScript feature that allows the users to extract multiple pieces of data from an array or object and assign them to their own variable. This concept allows us to easily extract data out of an array or object, and makes your code readable and usable.  And last but not least learned about operators like Spread operators and Ternary operators. The JavaScript spread operator (...) allows us to quickly copy all or part of an existing array or object into another array or object. The ternary operator is a simplified conditional operator like if / else.  Syntax: condition ? <expression if true> : <expression if false>  **6.In This Week I Done My Week Report On REACT JS:**   |  | | --- | | <!DOCTYPE html> | |  | <html> | |  | <head> | |  | <link rel="icon" href="https://cdn-icons-png.flaticon.com/512/252/252035.png"> | |  | <title>Know My Weather</title> | |  | <meta charset="utf-8"> | |  | <meta name="viewport" content="width=device-width" initial-scale=1> | |  | <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous"> | |  | <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p" crossorigin="anonymous"></script> | |  | <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.8.1/font/bootstrap-icons.css"> | |  | <style type="text/css"> | |  | body{ | |  | background-image: url(https://content.api.news/v3/images/bin/9da010285ed2df52012e9db32f3bf03b); | |  | } | |  | </style> | |  | </head> | |  | <body> | |  | <div class="container" style="box-shadow: 0 2px 10px rgba(0,0,0,0.3); height: 50px;width: 2500px;"> | |  | <div class="row" > | |  | <div class="col-lg-1"><i class="bi bi-list-stars" style="font-size: 2rem;color: darkblue;"></i></div> | |  | <div class="col-lg-1"><i class="bi bi-house-door-fill" style="font-size: 2rem;color: darkblue;padding-right: 50px;"></i></div> | |  | <div class="col-lg-5"><i class="bi bi-cloud-sun-fill" style="font-size: 2rem;color: darkblue;padding-left: 680px;"></i></div> | |  | <div class="col-lg-1"><i class="bi bi-sun-fill" style="font-size: 2rem;color: darkblue;padding-left: 300px;"></i></div> | |  | <div class="col-lg-2"><i class="bi bi-cloud-drizzle-fill" style="font-size: 2rem;color: darkblue;padding-left: 300px;"></i></div> | |  | </div> | |  | </div> | |  | <h1 style="color: #00498bd4; font-size: 75px; | |  | font-family: initial;" align="center">Welcome to Know My Weather Website!!!</h1> | |  | <div class="container mt-3" style="box-shadow: 0 2px 10px rgba(0,0,0,0.3); height: 160px;width: 400px;" align="text-center"><br><br> | |  | <form action="/weathersubmit" method="GET"> | |  | <div class="form-group"> | |  | <div class="input-group" > | |  | <span class="input-group-text" id="addon-wrapping"><i class="bi bi-geo-alt-fill" style="color: darkblue;"></i></span> | |  | <input type="text" class="form-control" placeholder="Enter the location" name="location"> | |  | </div> | |  | </div><br> | |  | <div align="center"> | |  | <input type="submit" value="Get Weather Info" class="btn btn-primary"> | |  | </div> | |  | </form> | |  | </div> | |  | </body> | | **OUTPUT:** | </html> | |

**ACTIVITY LOG FOR THE SEVENTH WEEK**

|  |  |  |  |
| --- | --- | --- | --- |
| **Day & Date** | **Brief description of the daily activity** | **Learning Outcome** | **Person In- Charge Signature** |
| Day – 1 | Prototype of project:  (Web application to know the weather app) | Preparing the prototype |  |
| Day - 2 | Building UI of the application | Creating the  signup page  Login page  Loginfail |  |
| Day – 3 | Creating the web pages | Set up server signup page, login page, home page. |  |
| Day – 4 | Connection of database with all web pages | We build the database in firebase and connect with each and every page of web. |  |
| Day – 5 | Set up server | Setup the server to dynamically render with HTML. |  |
| Day –6 | Complete the project | Successfully completed the project. |  |



**CHAPTER4: DESCRIPTION**

A work environment in a job description by creating an accurate picture of what potential employees can expect by explaining your company's core values and the experience of current employees. You can also get into the company's brand, history, target audience, and goals for the future. For example, an office will have workstations, IT equipment and printing facilities. A hospital will have several different departments, each with its own specialist equipment.

The furnishings will also impact the work environment. Every employee experience is comprised of three environments: the physical environment, the cultural environment, and the technological environment as seen below. We have all heard of corporate culture and the many ways to describe it.

**Technical Skills Acquired**

Technical skills are the abilities or the knowledge you need to perform a specific task. They are often considered a hard skill, or a skill you learned through education or training. The interesting thing about the modern job market is that almost everyone needs some technical skills to do their jobs. Technical skills are important because almost every profession requires some form of them. With the rise of computer technology and globalization, everything from the food service industry to real estate comes with technical skills.More and more, technical skills differentiate candidates during the job application process. A good candidate may have a few necessary skills, but a great candidate will have several technical skills that proves they are ready to contribute right away.Technical skills also keep employees sharp. By continuing to develop your comfort with new technologies, you expand your abilities and grow as a professional. The real time technical skills are Data analysis, Coding and programming, Social media skills, Project management and Technical writing.In these we are mostly concentrate on coding and programming skills. Coding and programming often go hand-inhand, but they’re not the same thing. Coding is basically taking regular language and translating it into something the computer understands. Many people have a remedial understanding of a little coding, like using HTML to create page breaks or underlining.Programming is more involved as it’s part of software development and includes planning, design, testing, and deployment. Not every profession needs coders and programmers but those computer jobs sure do.We have learned programming technical skills-HTML,CSS and JAVASCRIPT. Apart from this, other technical skills that organizations should look for in Node.js developers is their proficiency when it comes to managing the workaround of asynchronous programming.We also learned other technical skills like Express.js ,React.js and MongoDB.We also developed static web page by using all above technical skills.

Page No :

**Communication Skills**

information. Some examples include communicating new ideas, feelings or even an update on your project. Communication skills involve listening, speaking, observing and empathising. It is also helpful to understand the differences in how to communicate through face-to-face interactions, phone conversations and digital communications like email and social media.

Active Listening :

Active listening means paying close attention to the person who is speaking to you. People who are active listeners are well-regarded by their co-workers because of the attention and respect they offer others.

While it Communication skills are the abilities you use when giving and receiving different kinds of seems simple, this is a skill that can be hard to develop and improve. You can be an active listener by focusing on the speaker, avoiding distractions like cell phones, laptops or other projects and by preparing questions, comments or ideas to thoughtfully respond. Adapting your communication style to your audience:

Different styles of communication are appropriate in different situations. To make the best use of your communication skills, it’s important to consider your audience and the most effective format to communicate with them.

Friendliness:

In friendships, characteristics such as honesty and kindness often foster trust and understanding. The same characteristics are important in workplace relationships. When you’re working with others, approach your interactions with a positive attitude, keep an open mind and ask questions to help you understand where they’re coming from. Small gestures such as asking someone how they’re doing, smiling as they speak or offering praise for work well done can help you foster productive relationships with both colleagues and managers.

Confidence :In the workplace, people are more likely to respond to ideas that are presented with confidence. There are many ways to appear confident such as making eye contact when you’re addressing someone, sitting up straight with your shoulders open and preparing ahead of time so your thoughts are polished. You’ll find confident communication comes in handy not just on the job but during the job interview process as well. Giving and receiving feedback

Strong communicators can accept critical feedback and provide constructive input to others. Feedback should answer questions, provide solutions or help strengthen the project or topic at hand.

Volume and clarity: When you’re speaking, it’s important to be clear and audible. Adjusting your speaking voice so you can be heard in a variety of settings is a skill and it’s critical to communicating effectively. Speaking too loudly may be disrespectful or awkward in certain

settings. If you’re unsure, read the room to see how others are communicating

Empathy: Empathy means that you can understand and share the emotions of others. This communication skill is important in both team and one-on-one settings. In both cases, you will need to understand other people’s emotions and select an appropriate response. For example, if someone is expressing anger or frustration, empathy can help you acknowledge and diffuse their emotion. At the same time, being able to understand when someone is feeling positive and enthusiastic can help you get support for your ideas and projects.

Respect:

A key aspect of respect is knowing when to initiate communication and respond. In a team or group setting, allowing others to speak without interruption is seen as a necessary communication skill. Respectfully communicating also means using your time with someone else wisely—staying on topic, asking clear questions and responding.

Understanding nonverbal cues: A great deal of communication happens through nonverbal cues such as body language, facial expressions and eye contact. When you’re listening to someone, you should be paying attention to what they’re saying as well as their nonverbal language. By the same measure, you should be conscious of your body language when you’re communicating to ensure you’re sending appropriate cues to others.

Responsiveness :

Whether you’re returning a phone call or sending a reply to an email, fast communicators are viewed as more effective than those who are slow to respond. One method is to consider how long your response will take. Is this a request or question you can answer in the next five minutes? If so, it may be a good idea to address it as soon as you see it. If it’s a more complex request or question, you can still acknowledge that you’ve received the message and let the other person know you will respond in full later.

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**Technological Developments**

There is plenty being written about the bright future digital technologies are purportedly bringing to the business world. But when it comes to jobs and careers, the conversation gets gloomy. Expect plenty of jobs to be automated or supplanted by artificial intelligence, they tell us from truck drivers to journalists to doctors and even lawyers. The rise of digital has ramifications for every job, and the transition to a digital economy will carry its share of pain. At the same time, embracing the forces of change can also open up new opportunities. It's a matter of knowing where to look, and how to embrace the changes. For those working in companies with inspired and forward-thinking management, there will be a lot of support on the journey. If your company's management is less than inspired or mired in calcified thinking, it may be time to start thinking more entrepreneurially. Digital technologies demand a range of skills, from cloud architecture to social media. Many occupations, such as scientists, now require some level of programming skills. The role of digital technology in a company’s long-term development is to avoid undesirable experience in the normal situation and continue being competitive in forthcoming markets.

This offers a comprehensive study on the role of digital technologies and its important impact on employees in the competitive world. A measure for the role of digital technologies and employee experience was built and tested for its reliability and validity. Descriptive statistics were used to understand the importance of digital technology and its impact on the employee experience in Indian firms.The results show that if a company has to thrive through these testing times, the only solution is through the integration of technology into their organizational structure. The results also show that technological resolutions offer sustainable compensations across the business segments, and companies should emphasize investing in updating employee’s skill sets. Through the survey, it was also evident that organizations and institutions irrespective their size or market share had to incorporate employee development including basic technological know- how apart from technical skill sets.

Page No:

**CHAPTER 5: CONCLUSION OF THE PROJECT REPORT**

Finally, I completed my summer internship on WEATHER RPORT APPLICATION through weekly report and i created web application page on it.

REFERENCES:

* http://atm2001.eurocontrol.fr/
* https://doi.org/10.17226/10637.