

# Chapter– 16

## BEING A FRONT-END DEVELOPER

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*LinkedList Technologies is a group of motivated experts who provide high-quality services and a one-stop shop for all computing needs. They concentrate on creating web applications, Android apps, and iOS apps. They have collaborated with several domestic and foreign clients from various industries. The business offers customer-friendly services and has produced products in a variety of industries, including EdTech, FinTech, HealthTech, CRM, CRP, and ERP. They consistently put a priority on providing high quality standards while working toward client happiness.*

*We have offices in Gurgaon from where we serve our various clients. Rozanna, Lucky Money, Liem, TPM World Services, and others are just a few of our successful initiatives. We are a group of highly skilled technology enthusiasts with extensive backgrounds in each of our specialties. And we seek to offer complete solutions to the sectors of the economy, starting from a well-finished business. To offer the best finished product, we comprehend the business requirements of our clients and promote efficient information sharing and best practises.*

### **Work space**

We work on an agile development approach and have a variety of specialist team members to handle different tasks. Additionally, each engineer has their own

unique background and area of expertise, which allows us to work on a wide range of projects.

We have a number of teams to handle all the requirements in order to develop and maintain the quality benchmarks that we established in our field.

The company works on a wide range of projects. Below is a list of many of them, many of which the company has recently worked in.

Android Apps iOS Apps

Web Applications

ERP Application

EdTech Solution

FinTech

HealthTech

CRM

## **Introduction**

Internships are recognized educational initiatives designed to provide learners new to a field with hands-on experience in the real world. Internships aid in developing the resume by providing students with observable work experience.

Despite the fact that they provide students with assistance in programme selection for internships which is the duty of the prospective interns to exercise caution programme for internships. Interns might investigate their topic of study. interest. discover the future they are entering and whether or whether their skill sets align with what they want to do career

## **About the Project**

### **- Hotel the Meridien Executive Website**

For customers who want to check hotels online, there is a hotel website. To learn more about the hotel's structure, amenities, and services, such as an SPA, laundry service, luggage storage, conference spaces, daily newspapers on demand, and a doctor on call, as well as high-speed Wi-Fi connectivity, led televisions with satellite connections, and cctv. Some pictures of hotels are in the gallery. rooms: suites, family rooms, super deluxe rooms, and deluxe rooms.

### **- Visa Management App**

This is a Singapore based project for visa management by a another type Admin Login -There will be separate login/signup process for the admin manual as well as through google, Facebook their company emails

- User web for tracking the application using QR code-By scanning the QR code they can track the status of their application on their own rather than taking a long process of steps to get the status of application.
- Create invoice selecting different services-The automated invoice generation basis on the service being selected by the customer or client.
- QR code connected to every invoice- It would help in increasing the efficiency of conducting commerce by using machines to capture the data contained in invoices for quick and accurate input. The QR Code will be created based on the following parameters:
  - Invoice number given by the supplier
  - Date of the generation of invoice
  - Invoice value
  - Number of line items
  - HSN Code of the main item
  - Unique Invoice Reference Number/Hash
- QR code mapping to passport -By scanning the qr code all the data related to that particular person will be visible and can be viewed.
- Application status management-Reports like applications, revenue, approved, rejected, refunded in a day, week, month and custom range Example-if the applicant has moved to a review stage, you can create a status called "In Review" that will be applied and made visible to every application in that stage.
- Mailing invoice- Sending an automated email invoice to the client or customer on their respected emails, a document from a transaction with the amount owed and due date for payment.
- Notification to user on every status change - \*In-app notifications—are bell notifications and News Feed notifications \*Push notifications—are sent to mobile devices \*Email notifications Service Request status change, Change Request approval— Approvers get a notification when a new Change approval request arrives
- Help section for the user- A help section that will kind of support from the company people where people can directly communicate there issue to the person or issue through email, contact number etc.
- Customer management - Managing different customer details through database, analysis of data and the tracking, interaction through emails, chats .

- Services Management- Managing the services that we are offering to the customers. Managing external service providers.

## **Technology used in Hotel website**

### **Vs code**

Microsoft created Visual Studio, an Integrated Development Environment (IDE), to create GUI (Graphical User Interface), console, Web, web, mobile, cloud, and other services. You can produce both managed and native code with the aid of this IDE. It makes advantage of Microsoft's many software development platforms, including Windows Store, Microsoft Silverlight, and Windows API, among others. It is not a language-specific IDE because you can use it to write code in many different languages, including C#, C++, VB (Visual Basic), Python, and JavaScript. 36 different programming languages are supported. It is accessible on both macOS and Windows.

The first version of Visual Studio, called Visual Studio 97 and bearing version number 5.0, was launched in 1997. Visual Studio's most recent version, 15.0, was made available on March 7, 2017. It also goes by the name Visual Studio 2017. the encouraged. Newest versions of Visual Studio support Net Framework versions 3.5 to 4.7. Older versions of Visual Studio supported Java, however the most recent version doesn't include any Java language support.

Microsoft Visual Studio comes in three different editions, as follows:

1. Community: It was announced in 2014 as a free version. Other editions require payment. This has features that are similar to those in the Professional edition. Any independent developer can create their own premium or free apps using this edition. programmes for the internet, the web, and many others. This edition has some restrictions when used in an enterprise setting. For instance, you cannot utilize this edition if your company has more than 250 PCs and an annual turnover of more than \$1 million (US Dollars). This edition can be used by up to five users in a non- enterprise setting. Its primary function is to give an ecosystem (access to thousands
2. of extensions) and languages (you can code in C#, VB, f# C++ HTML JAVASCRIPT and others).
3. Professional: This is Visual Studio's premium edition. Visual Studio 2010 and later versions include it. It features tools like Server Explorer, interaction with Microsoft SQL Server, and support for XML and XSLT editing. Microsoft offers a free trial of this edition, but after that, users must continue to pay to utilise it. Its main goals are to offer subscribers benefits like Microsoft software, plus Azure, Pluralsight, and other services, as well as flexibility (professional developer tools

for creating any type of application), productivity (powerful features like CodeLens increase team productivity), and collaboration (agile project planning tools, charts, etc.).

4. **Enterprise:** This is a comprehensive, integrated solution for teams of any size with stringent quality and scaling requirements. Microsoft offers a 90-day free trial of this edition, after which the customer must continue to pay to utilise it. This edition's key advantage is that it delivers high-quality software and is extremely scalable.

## **HTML**

Hyper Text Markup Language, also known as HTML, is a programming language used to build websites and online applications. Let's examine what Web page and Hypertext Markup Language mean.

Hypertext is just "Text within Text," as the name suggests. A text that contains links is a hypertext. A hypertext link is one that when you click on it opens a new webpage for you. Two or more web pages (HTML documents) can be linked together via hypertext.

A markup language is a type of computer language that is used to apply formatting and layout rules to text documents. Text is made more interactive and dynamic using markup language. It can convert text into graphics, tables, links, and other formats.

A web page is a piece of writing that is typically created in HTML and is translated by a web browser. An URL can be used to locate a web page. A web page can be either dynamic or static. Only HTML can be used to construct static web pages.

Web pages development - HTML is used to create pages which are rendered over the web. Almost every page of web is having html tags in it to render its details in browser.

**Internet Navigation** - HTML provides tags which are used to navigate from one page to another and is heavily used in internet navigation.

**Responsive UI** - HTML pages now-a-days works well on all platform, mobile, tabs, desktop or laptops owing to responsive design strategy.

Offline support HTML pages once loaded can be made available offline on the machine without any need of internet.

Game development- HTML5 has native support for rich experience and is now useful in gaming development arena as well.

## **CSS**

An acronym for CSS stands for cascading style sheets. It is a language for writing style sheets that specify how markup-language documents should be laid out and look. It adds a new function to HTML. Usually, it collaborates with HTML to change the appearance and feel of web pages and user interfaces. It can be used with any XML document type, including plain XML, SVG, and XUL. The majority of websites combine CSS, HTML, and JavaScript to create the user interfaces for online apps and many mobile applications. CSS saves time since it can be written once and used repeatedly in different HTML sites. Each HTML element has a style that you can choose and use on as many different Web sites as you like.

Pages load more quickly because CSS eliminates the need for repetitive HTML tag attributes writing. You only need to create one CSS rule per tag, and it will be applied to every instance of that element. So, quicker download times result from less code.

Simple upkeep: To make a modification that affects all elements across all web pages, just modify the style. Everything will update instantly. Nicer styles than HTML: CSS provides a considerably wider range of properties than HTML, so you can give your HTML page a much better appearance than you can using HTML attributes.

Multiple Device Compatibility - Content can be tailored for a variety of devices thanks to style sheets. Different versions of a website can be displayed for handheld devices like PDAs and cell phones as well as for printing by using the same HTML content.

Global online standards - CSS is now advised in place of HTML attributes, which are currently being deprecated. Therefore, adopting CSS to make all HTML pages compatible with future browsers is a good idea.

## **BOOTSTRAP**

Bootstrap is the most popular HTML, CSS, and JavaScript framework for building responsive and mobile-friendly websites. Both downloading and using are totally free.

It is a front-end framework meant to speed up and simplify web development. It provides HTML and CSS-based design templates for typography, forms, buttons, tables, navigation, modals, image carousels, and many other things. Additionally available are JavaScript plug-ins.

## **JAVASCRIPT**

Because it is the most widely used programming language in the world, Javascript is a fantastic option for programmers. Once you have mastered Javascript, you may use many Javascript-based frameworks, such as jQuery and Node.JS, to create excellent front-end and back-end software. Every modern web browser already has Javascript installed, therefore you don't actually need a specific environment to learn Javascript. For instance, every modern browser, including Chrome, Firefox, Safari, and others, supports Javascript.

Javascript makes it possible to build incredibly attractive and swift websites. You can create a website with a console-like interface to provide the finest graphical user experience for your visitors. Today, game development, desktop app development, and mobile app development all use JavaScript. As a Javascript programmer, this gives you a lot of opportunities. For individuals that know JavaScript, there is significant job growth and great income due to the increasing demand. To explore what having JavaScript abilities looks like in the job market, visit to several job sites. The best thing about Javascript is that it already has a tonne of frameworks and libraries that you can use to speed up the development of your software. Client-side validation is crucial for validating user input before it is sent to the server, and Javascript is crucial for doing this right on the front end.

**HTML Page Manipulation** - Javascript is useful for instant HTML page manipulation. This makes it simple to add and remove any HTML tag using Javascript, and it allows you to adjust your HTML to alter how it appears and behaves based on the needs of various devices. **User Notifications** - You may use Javascript to create dynamic pop-up windows on your website's pages to provide users with various types of notifications. **Back-end data loading** is made possible by JavaScript's Ajax library, which you can use to load back-end data while performing other operations. Your website visitors will have a wonderful experience thanks to this. **Back-end data loading** is made possible by JavaScript's Ajax library, which you can use to load back-end data while performing other operations. Your website visitors will have a wonderful experience thanks to this.

**Presentations** - A feature of JavaScript that gives websites a more professional appearance is the ability to create presentations. Reveals and Bespoke libraries are offered by JavaScript to create web-based slide shows. **Server Applications:** For building quick and scalable network applications, Node JS is based on Chrome's JavaScript runtime. This event-based library facilitates the creation of highly complex server applications, such as Web servers.

## **SEO**

The fundamental purpose of SEO is to make a website more visible so that it will appear higher in search results and attract more visitors. We chose Google Search Console and Bing Webmaster Tools for SEO because they both include a variety of features and tools for viewing a website's data. The amount of backlinks, page speed, insights by demographic, user, device, etc., page experience, website core vitals, sitemaps, indexing, and other elements of Google Search Console are just a few of its capabilities. The following details the website's effectiveness:

The two most often used indexing services are Google Site Indexing and Bing Instant Indexing. Indexing is crucial for getting filtered and showing up in search results.

Because both Google's site indexing and Bing's quick indexing offer manual and sitemap- based indexing, we used both of them to index the website. The indexing report for both Bing and Google is provided below:

### **Requirements**

Take it all the requirement from the client like images of room, address, about the rooms and all the facilities , contacts us and a image of banquet - hall is the ideal venue for your conferences, seminars, workshops or small get-togethers. such famous places images around the hotel so that we can add in explore and etc.

Then we were showing work like as a demo in every one week or between 4 to 5 days meeting happened 20 to 30 minute so that if they want any changes we can change that time.

### **Design Pages**

All the pages which I have created

### **Contact us page**

Created a google form for reaching out to hotel like enter the username email and mobile number and in right side added the address and email telephone and a google map image of that address

## **Technology used in Visa management App**

### **React Native**

You may create natively rendered mobile apps for iOS and Android using the well-liked JavaScript-based mobile app framework known as React Native (often referred to as RN). Using the same codebase, the framework enables you to develop an application for a variety of platforms. In 2015, Facebook originally made React Native available as an open-source project. It rose to the top of the list of tools used for mobile



development in just a few short years. Some of the most popular mobile applications in the world, such as Instagram, Facebook, and Skype, are powered by React Native development. In this post, we go into further detail about these and other React Native-powered apps.

JavaScript You can create native mobile apps using the knowledge you already have of JavaScript.

The majority of your code can be shared across other platforms. You may find any solution you need in the enormous community that surrounds React and React Native.

### **Expo**

Expo is a bundle of tools created around React Native to help you start an app very fast. It provides you with a list of tools that simplify the creation and testing of React Native app. It equips you with the components of the user interface and services. Usually, they are available in third-party native React Native components. Expo is a massive environment for React Native. It helps you from the creation to distribution of your React Native apps. Remember, when you are coding in Expo, you still write React Native code. But with the support of the Expo CLI and Expo Client on your smartphone. It is better to use Expo CLI if you are new to app development.

### **Axios**

For calling REST APIs, a popular HTTP client is Axios. This allows you to retrieve data from any REST API in React Native.

#### **Axios's attributes are:**

It is capable of sending both HTTP and XMLHttpRequest queries.

It is capable of comprehending all requests and answers from an API. Axios is based on promises.

It can change the JSON format of the response.

**POST:** When using Axios with React Native, POST requests are made using the `axios.post()` method. To carry out this action, the base URL and its parameters are required. Through an object, you may specify the arguments you want to pass along with the base URL.

If it is successfully executed, you will receive a response. Data and other details pertaining to the request will be included in this response.

**Ngrok:** ngrok is a cross-platform application that enables developers to expose a local development server to the Internet with minimal effort. The software makes your locally-hosted web server appear to be hosted on a subdomain of ngrok.com, meaning that no public IP or domain name on the local machine is needed.

With the help of the robust tool Ngrok, users can share or access any locally hosted web application(s) via a publicly available web URL. The traffic that arrives at that endpoint is then tunnelled over a designated localhost port after being exposed to the Ngrok.io domain via this public URL.

The operating systems Windows, macOS, Linux, and FreeBSD all support Ngrok. Ngrok offers a free account with constrained functionality as well as a subscription account with additional features including support, whitelisting, and subdomains. You can sign up using your email address or a GitHub or Gmail account.

#### Webhook verification

Let's consider a scenario where a different system has been integrated and one of the systems relies on the external system to inform on a specific activity. It is necessary to force the application to access a publicly accessible URL in order to verify that the service has been successfully performed. Ngrok can be used to do this.

Application demo or showcasing for a client.

Ngrok can be useful when displaying or exhibiting a locally hosted application to a client, which is another significant area. As a developer, you might occasionally wish to show your web application to your clients or end customers. To do this, utilize Ngrok to create a publicly available URL that you can then share.

#### Login page

- Add images or logo we can say, Then make input for "Enter your username or email "
- Input for password used `securetextentry` "Enter password "
- Add a button for login. If account does not exist then u can Register "Don't have an account ? Register"
- Like I typed email and password for the login . if its showing You do not have account then a output will come in my terminal as well as in backend "Doesn't exist " .
- If its showing logged then a output will come in my terminal Successfully logged in When I will click on register then Register screen will open

#### Register screen

- Add a h1 text "Create a New Account "

- Input type of text " Enter name "
- Add text for the email "Enter you email"
- Then add the type of password "Enter your password "
- And a button for the Register
- "Already have an account? login "
- When I enter the email name password for the new account if email already exist then it will show use another mail and then all are the correct then it will show "successfully Registered"

### **Problem**

Which I faced In authentication using fire base for email authentication when I enter name email password nothing was showing like registered or already registered in app. Only showing "registers error 400" and sometimes register error 500 It means not taking my value which I have passed, And a output was coming use latest version then I installed the latest its showing not suitable. This problem has taken too much time.

Then he advised use axios which is also for authentication (a browser-based HTTP client built on promises) Then I used for post, but a problem that time was coming when I enter name email and password for creating new account its showing "Successfully registered" But when I enter same email and password for login it was giving Some error some numbers and some code

Then I checked the Value which I had passed it was login,

But in backend they used Sign in and some another value was incorrect then this problem was solved. "Successfully Registered" "Successfully logged in" And after finishing the design work for the hotel website, I ran into issues using JavaScript to write the code. Because some of the code was incorrect, it was unable to execute in either the browser or the console, so I asked help to a senior employee.

### **CONCLUSION**

Working with the organization was a fantastic experience that taught me how to recognize upcoming issues as well as introduce me to new technologies like axios, react native, bootstrap, ngrok server, and expo authentication.

Without wasting much time, we may ask our senior, who is very knowledgeable on the subject, for assistance if we are stuck on a difficulty. After that, we can comprehend the issue I was exposed to as part of the project's fast learning and reporting deadline and cooperating as a team.