AN INTERNSHIP REPORT

On Project

VISITOR MANAGEMENT SYSTEM

At

NUTSHELL INFOSOFT PVT. LTD.

A report submitted in partial fulfillment of the requirements for the Award of Degree of

BACHELOR OF ENGINEERING

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

By

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Under Supervision of

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(Duration: 01 Feb 2023 – 28 Apr 2023)

K. K. WAGH INSTITUTE OF ENGINEERING EDUCATION AND RESEARCH, NASHIK, MAHARASHTRA.

STUDENT'S DECLARATION

I, **YASH JADHAV** hereby declare that I have undertaken 12 weeks internship at **NUTSHELL INFOSOFT, NASHIK** during a period from 1th Feb 2023 to 28th Apr 2023 in partial fulfillment of the requirements for the Award of Degree (Artificial intelligence and Data Science) at **K. K. WAGH INSTITUTE OF ENGINEERING EDUCATION AND RESEARCH, NASHIK.** The work which is being presented in the training report submitted to the Department of Computer Engineering at above mentioned institute is an authentic record of training work.

I have taken care in all respect to honor the intellectual property right and have acknowledged the contribution of others for using them in academic purpose and further declare that in case of any violation of intellectual property right or copyright I, as a candidate, will be fully responsible for the same.

Signature of the Student
Date:
Place:

Mr. Shreyas Brahma, Managing Director, Nutshell Infosoft
Signature of the Supervisor-1

Prof. Manodnya Shitole, Assistant Professor, KKWIEER
Signature of the Supervisor-2

ACKNOWLEDGEMENT

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SUMMARY

An internship is a period of work experience offered by a company/an organization for a limited period of time. It is an opportunity that employers offer to a student interested in gaining work experience in their particular company. The report presents the work I have done, the knowledge has been acquired and the conclusions I have drawn in these 04 weeks internship/ industrial training at Emerging technologies, Nashik.

Today's generation for industrial revolution is called as Industry 4.0. It refers to the fourth industrial revolution that takes automation of manufacturing processes to a new level by introducing customized and flexible mass production technologies.

Web development is the process of creating websites and web applications using programming languages, frameworks, and tools. It involves planning, designing, developing, testing, and deploying a site. Web development can be divided into front-end and back-end development, with front-end focusing on the user interface and back-end dealing with server-side programming.

Visitor management system is a web-based application that accurately predicts visitor presence, monitors visitor activity, and enhances the overall security of the premises. By implementing a data-driven approach, organizations can make more informed decisions based on visitor data, rather than intuition and experience. The system provides real-time monitoring of visitor activity, enabling authorized personnel to track visitor movements and receive alerts for any security breaches. With the right technology in place, organizations can improve their visitor management process, reduce wait times, and enhance security measures to protect their assets and personnel

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Chapter – 1

INTRODUCTION

1.1 Full Stack Development

Full-stack development using C# involves building web applications using Microsoft's .NET framework, which includes the C# programming language. A full-stack C# developer has knowledge and skills in several technologies, including HTML, CSS, JavaScript, .NET Core, ASP.NET, and SQL Server.

Front-end development using C# involves creating the user interface of a web application using HTML, CSS, and JavaScript. This requires knowledge of front-end frameworks such as React, Angular, and Vue, as well as expertise in Razor, a templating engine used with ASP.NET.

Back-end development using C# involves writing server-side code using .NET Core and ASP.NET to support the application's functionality, including database management, API integration, and user authentication. This requires knowledge of back-end frameworks such as Entity Framework, LINQ, and Web API.

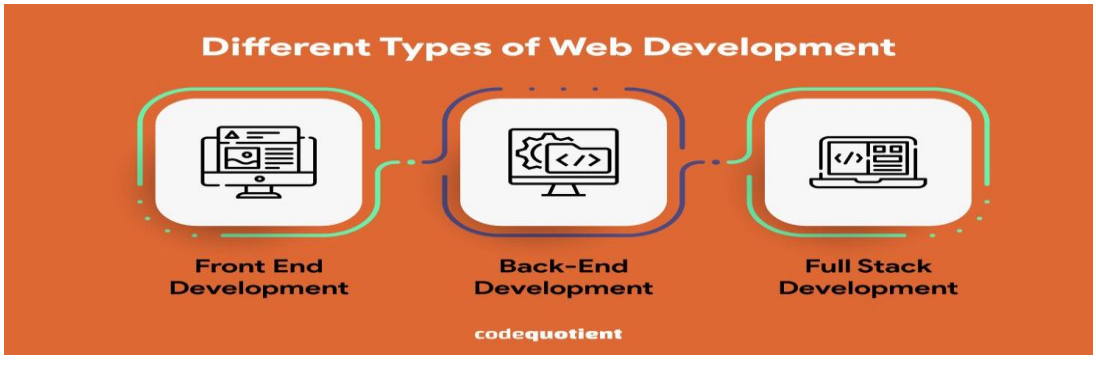
Full-stack development using C# also includes the ability to deploy and maintain applications in a production environment using tools and technologies such as Azure DevOps, Docker, and Kubernetes.

Overall, full-stack development using C# requires a broad range of technical skills and expertise in different programming languages and frameworks. A full-stack C# developer is responsible for building and maintaining the entire web application, from the user interface to the server-side code and deployment, using Microsoft's .NET framework.

1.2: Technologies Used in Full Stack Development

1.Front-End Development: Front-end development is a crucial type of web development that focuses on creating the user interface and user experience of a website or web application. It involves using HTML, CSS, and JavaScript to design and develop the visual and interactive elements of a website, such as buttons, menus, forms, and animations. Front-end developers work closely with designers and back-end developers to ensure that the website or web application meets the functional and design requirements, and they play a crucial role in creating websites that are user-friendly, accessible, and visually appealing. With the growing importance of user experience in the digital market, front-end development has become increasingly important for businesses looking to attract and retain

2.Back-End Development : Back-end development involves creating the server-side functionality of a website or web application using programming languages such as Python, Ruby, PHP, or Java, as well as the database that stores and retrieves data. Back-end developers work closely with front-end developers to ensure that the server-side functionality integrates seamlessly with the user interface, providing a smooth user experience. Back-end development is crucial for creating dynamic and 2. Fig.1. Types of Web Development 1.3 Process of Web Development: There are standard steps that we've to follow for a data science project. For any project, first, we have to collect the data according to our project needs. The next step is to clean the data like removing values, removing outliers, handling imbalanced datasets, changing categorical variables to numerical values, etc. After that training of a model, use various machine learning and deep learning algorithms. Next, is model evaluation using different metrics like recall, f1 score, accuracy, etc. Finally, model deployment on the cloud and retrain a model. interactive websites that respond to user input and perform complex operations, and plays a crucial role in creating websites and web applications that are reliable, performant, and secure. With the growing



demand for web applications and services, back-end development has become increasingly important for businesses looking to stay competitive in the digital market

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3.Full Stack Development: Full stack development refers to the practice of developing both the frontend and back-end of a web application. A full stack developer is responsible for implementing the complete architecture of a web application, including the server-side, client-side, and database layers. This requires proficiency in multiple programming languages, frameworks, and technologies, as well as knowledge of web development principles and best practices

1.3 Process of a Web Development:

There are standard steps that we've to follow for a data science project. For any project, first, we have to collect the data according to our project needs. The next step is to clean the data like removing values, removing outliers, handling imbalanced datasets, changing categorical variables to numerical values, etc. After that training of a model, use various machine learning and deep learning algorithms. Next, is model evaluation using different metrics like recall, f1 score, accuracy, etc. Finally, model deployment on the cloud and retrain a mode

Here are some points outlining the process of web development:

1. Planning: This stage involves gathering requirements, defining goals and objectives, identifying target audience, and creating a project plan.

2. Design: In this stage, the website's visual appearance is created, including layout, color scheme, typography, and branding.

3. Development: This stage involves coding and programming the website using various technologies, frameworks, and tools.

4. Testing: During this stage, the website is tested for functionality, usability, and compatibility with different devices, browsers, and operating systems.

5. Launch: Once the website is tested and approved, it can be launched and made available to the public.

6. Maintenance: After launch, the website requires ongoing maintenance to ensure it remains secure, up- to-date, and functional. This includes updating content, fixing bugs, and making necessary improvements and upgrades.

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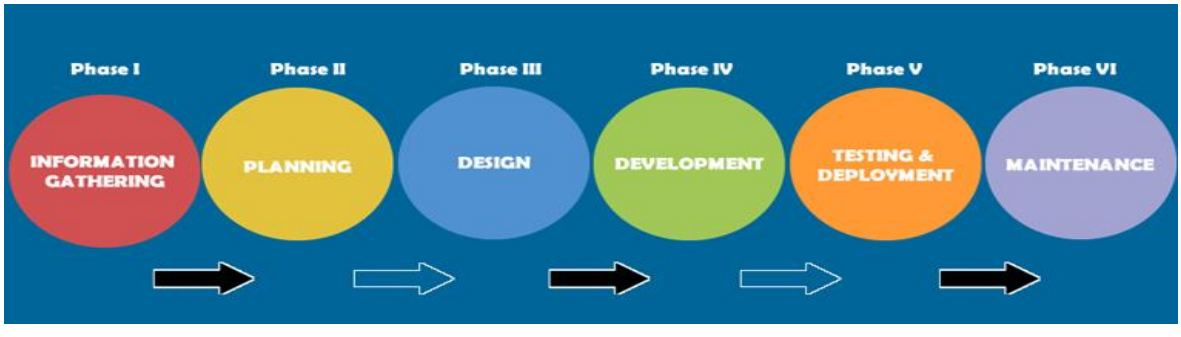


Fig.2. Steps of Web Development

Chapter – 2

DETAILS OF THE PROJECT

2.1 Problem Statement

The visitor management process in organizations can be inefficient and lack security measures, leading to increased risk of security breaches and unauthorized access. The traditional methods of managing visitors, such as manual sign-in sheets, can be time-consuming and error-prone, resulting in long wait times and frustration for visitors. With the right technology, the visitor management process can be streamlined, reducing wait times and improving the overall experience for visitors

2.2 Objectives / Motivation Scope

The Visitor Management System project aims to create a web-based application for accurate visitor prediction, activity monitoring, and improved security. By leveraging data, organizations can make informed decisions, improve efficiency, and reduce costs. The system provides real-time monitoring and alerts authorized personnel for security breaches, enhancing visitor management and protecting assets and personnel.

- Accurately predict visitor presence
- Enhance security measures and provide alerts for security breaches
- Provide a comprehensive solution for managing visitors in a secure and
- efficient manner Reduce costs associated with managing visitors

Chapter – 3

METHODOLOGICAL DETAILS

3.1 Website Requirement Gathering

Website Requirement Gathering is the process of identifying and documenting the needs and objectives of a website development project. It is a crucial step in creating a successful website that meets the client's expectations and goals. The following information can be included in a report on Website Requirement Gathering for Asp.net:

1. Identify the purpose of the website: This involves defining the main objective of the website, such as selling products, providing information, or promoting a brand.

2. Define the target audience: Understanding the demographics, preferences, and needs of the target audience is essential for designing a website that meets their requirements.

3. Determine the content and features required: This involves listing the pages, content, and features required for the website, such as a blog, social media integration, contact forms, or e-commerce functionality.

4. Identify design requirements: This includes the layout, color scheme, branding, and overall look and feel of the website.

5. Define technical requirements: This involves specifying the programming language, web server, database, and hosting requirements for the website.

6. Determine the budget and timeline: This involves defining the project budget, timelines, and milestones for the website development process.

7. Conduct a competitive analysis: This involves researching and analyzing the websites of competitors in the industry to gain insights into design trends, features, and functionalities.

8. Define the SEO requirements: This involves identifying the target keywords, meta tags, and other optimization strategies required to improve the website's search engine ranking.

By following a structured Website Requirement Gathering process, developers can ensure that the final product meets the client's expectations and achieves the desired objectives.

3.2 Website Design and Development

Website Design and Development is a crucial process for businesses and organizations to create an effective online presence. The process involves planning and strategy, design, development, testing, launch, and maintenance.

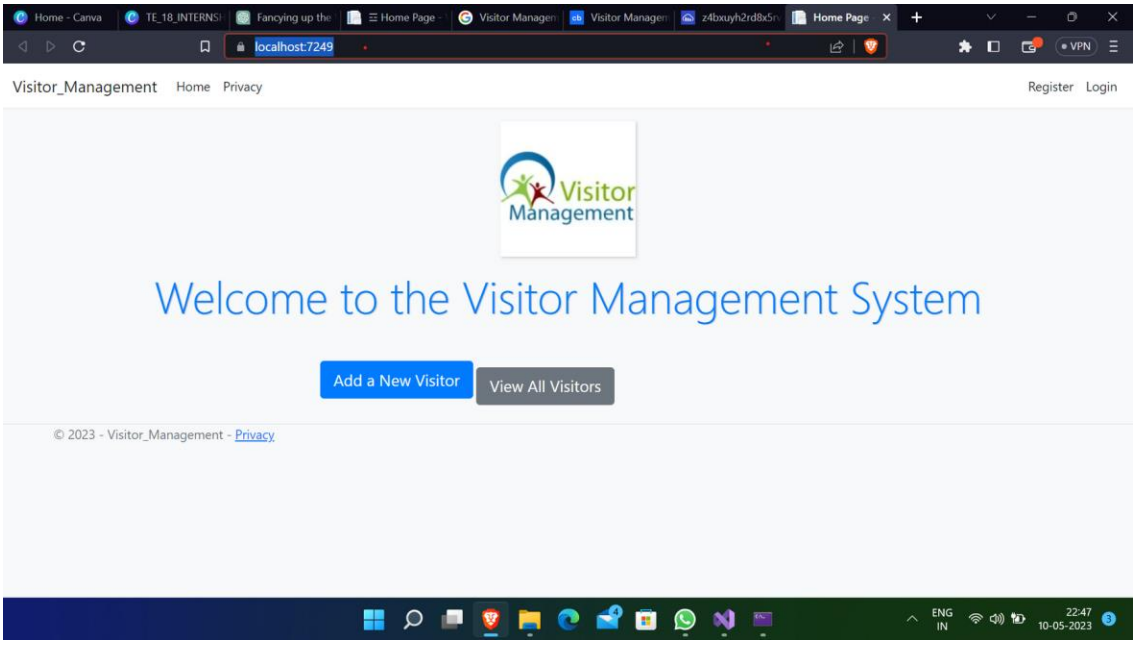


Fig.3. Home Page Overview

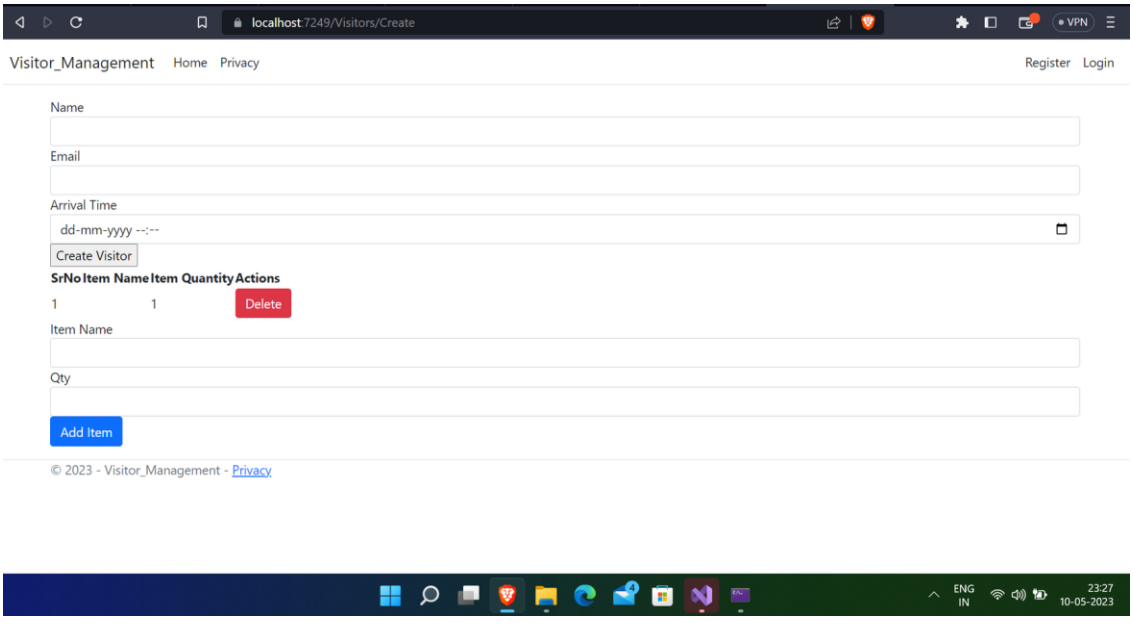


Fig : Add New Visitor

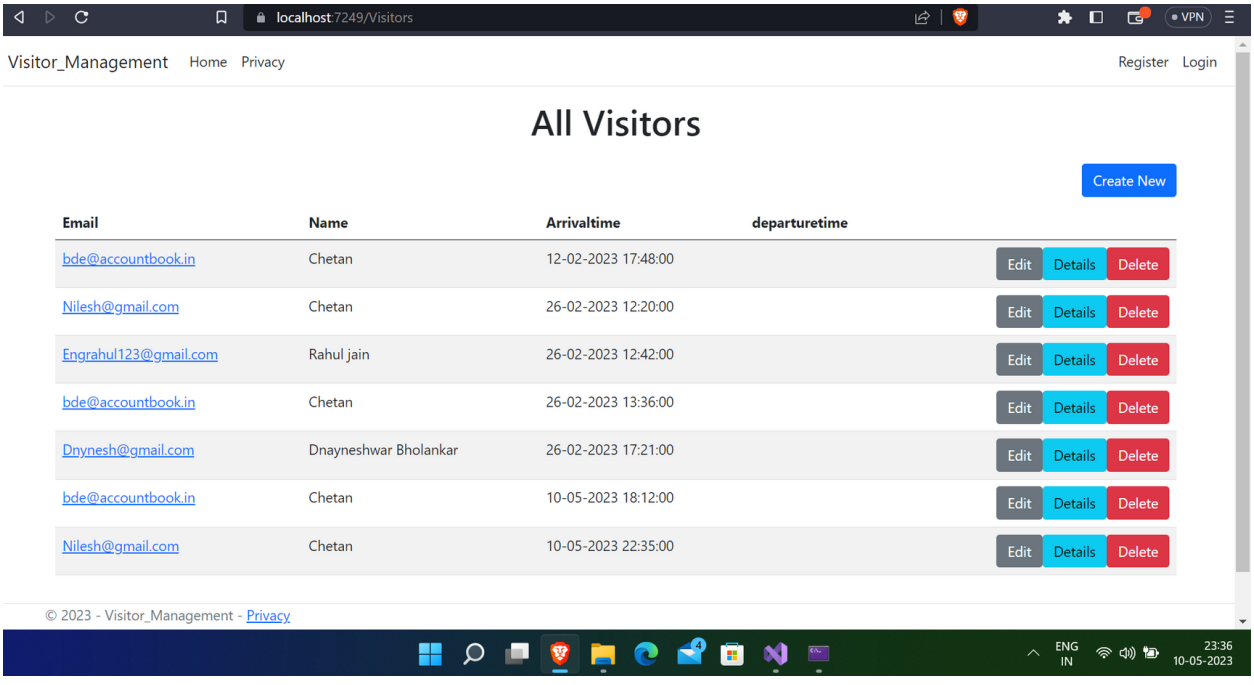


Fig : Visitor Details

Some commonly used libraries and frameworks in a hotel management system are Entity Framework, ASP.NET Identity, jQuery, Bootstrap, Newtonsoft.Json, Auto Mapper, and Seri log. The choice of libraries and frameworks will depend on the specific needs of the system and the preferences of the development team.

3.3 Website Testing

Website testing is an essential aspect of the website development process to ensure that the website functions correctly, is user-friendly, and provides an optimal user experience. The testing phase involves evaluating the website's functionality, usability, compatibility, and performance. Functionality testing checks that all features and functions of the website are working correctly, such as forms, buttons, and links. Usability testing focuses on the website's ease of use and user experience, including navigation, layout, and design. Compatibility testing ensures that the website works correctly across different devices, browsers, and operating systems. Performance testing assesses the website's speed, responsiveness, and stability under different conditions.

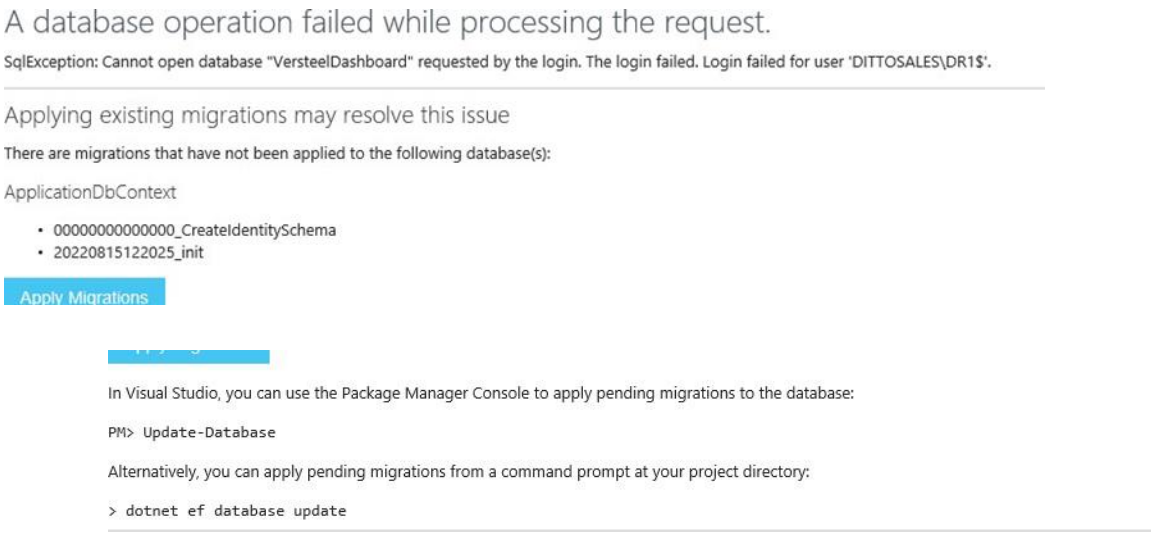


Fig.4. Apply Migration Warning

By conducting thorough website testing, businesses can identify and address any issues and improve the website's overall functionality and user experience, resulting in increased user engagement, improved conversion rates, and a positive brand image

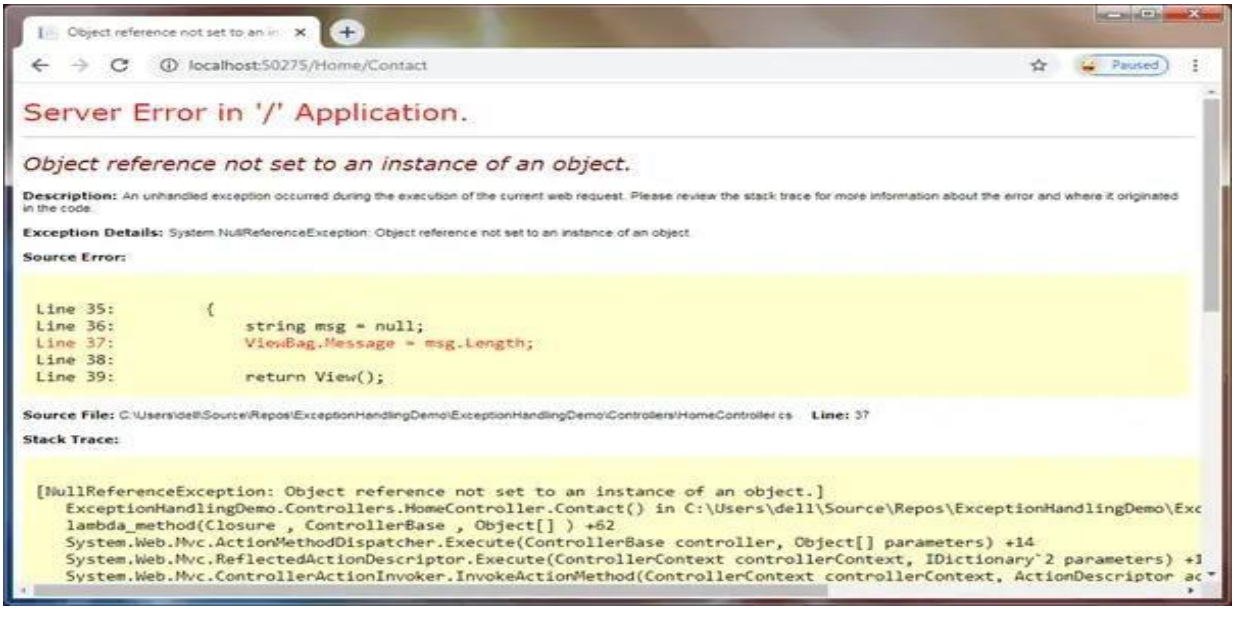


Fig.5. Exception Handling

3.4 Website Deployment and Maintenance

Website deployment and maintenance are essential steps in the web development process. After the website is developed, tested, and approved, it needs to be deployed to a web server to be accessible to users. This involves transferring all the website files to the server, configuring the domain name and hosting, and ensuring that the website is secure and runs smoothly.

Once the website is deployed, it requires ongoing maintenance to ensure that it remains up-to-date, secure, and fully functional. This involves monitoring the website performance, updating the content and features, fixing any bugs or errors, and implementing security measures to protect the website from potential threats. Regular backups and updates are crucial to keep the website secure and running smoothly. A well-maintained website helps to enhance the user experience, improve search engine rankings, and increase website traffic.

Chapter – 4

RESULTS

4.1 Authentication and Authorization Algorithm

It Authentication and authorization are crucial components of secure systems that aim to protect sensitive data from unauthorized access. The authentication process involves verifying the identity of a user or system, while authorization determines what actions a user or system can perform based on their role and permissions.

4.2 Search Algorithm

In .NET, searching through a collection of objects can be done efficiently using LINQ queries. LINQ provides a set of query operators that can be used to search, filter, and sort collections of objects. Here is an example of a LINQ query that searches for a specific item in a collection of objects:

```
var result = collection.Where(x => x.Property == "Value").FirstOrDefault();
```

1.Binary Search: This algorithm is commonly used for sorted databases and works by repeatedly dividing the search interval in half until the desired record is found. Binary search has a time complexity of O(log n) where n is the number of records in the database.

2. Hash Search: This algorithm uses a hash function to map the search key to an index in the database, making the search process very fast. Hash search has a time complexity of O(1), but it requires a well-designed hash function.

4.3 MVC Handling

MVC, or Model-View-Controller, is a software architectural pattern that separates an application into three interconnected parts: the Model, the View, and the Controller. The Model represents the data and logic of the application, the View displays the data to the user, and the Controller handles user input and updates the Model and View accordingly

4.4 Security Algorithm:

There are several security algorithms that can be implemented in .NET for secure communication and data encryption. One of the most commonly used security algorithms is Advanced Encryption Standard (AES).

AES Algorithm: This algorithm ensures the security of the system by implementing measures such as data encryption, password policies, and access control.

```
public static string Encrypt(string plainText, string key, string iv)
{
byte[] plainBytes = Encoding.UTF8.GetBytes(plainText); byte[] keyBytes = Encoding.UTF8.GetBytes(key);
  byte[] ivBytes = Encoding.UTF8.GetBytes(iv);



  using (Aes = Aes.Create())

  {

    aes.Key =

    keyBytes;

    aes.IV =

    ivBytes;

    ICryptoTransform encryptor = aes.CreateEncryptor(aes.Key, aes.IV);



    byte[] encryptedBytes = encryptor.TransformFinalBlock(plainBytes, 0,

    plainBytes.Length); return Convert.ToBase64String(encryptedBytes);

  }

}
```

4.5 Framework Comparison

Blazor and .NET MVC are both frameworks used for developing web applications in .NET ecosystem. Here are some key points of comparison between the two:

1. Architecture: Blazor is based on the WebAssembly platform and uses C# code to create interactive client-side web applications, while .NET MVC is based on the Model-View-Controller (MVC) architecture pattern and creates server-side web applications.

2. Front-end development: With Blazor, front-end development is done using C# and HTML, whereas
.NET MVC uses Razor syntax, which combines HTML and C# code.

3. Performance: Blazor allows for fast and responsive client-side applications due to its use of WebAssembly. On the other hand, .NET MVC provides server-side rendering, which may not be as fast as client-side rendering in some cases.

4. Learning curve: Blazor may have a steeper learning curve for developers who are not familiar with C# and WebAssembly, whereas .NET MVC has been around for longer and has more resources and documentation available.

5. Libraries and tools: Both frameworks have access to the same .NET libraries and tools, but Blazor also has access to WebAssembly-specific libraries and tools.

Ultimately, the choice between Blazor and .NET MVC depends on the specific needs of a project. If fast client-side rendering is a priority, Blazor may be a better choice, while server-side rendering may be sufficient for simpler applications and projects where familiarity with .NET MVC is an advantage.

Suggestions / Recommendation for Improvement

- Enhance security measures: Consider implementing more robust security measures, such as biometric identification or facial recognition technology, to enhance the system's ability to prevent unauthorized access.

- Simplify the check-in process: Visitors often find check-in processes confusing and time-consuming. Consider implementing a simplified check-in process that's easy to understand and use, such as a self- check-in kiosk or mobile app

- Improve data analysis: The system can be used to collect valuable data on visitor behavior, which can be analyzed to gain insights into visitor patterns and improve the overall visitor experience. Consider implementing more advanced data analysis tools to extract valuable insights from visitor.

- Integrate with other systems: Integrate the Visitor Management System with other security and access control systems to streamline the overall security and visitor management process.

- Provide better visitor communication: Provide better communication to visitors about the check-in process, safety and security guidelines, and any other relevant information they need to know. This can be done through on-screen messaging, SMS alerts, or email notification

Other Projects Done during Internship

1. Job Portal Management:

Blazor is a web development framework that allows developers to create interactive web applications using C# instead of JavaScript. In my project, I have created a responsive job portal website that has roles assigned to users.

As part of my project to create a job portal website using Blazor, I implemented several enhancements to improve the website's functionality and user experience. One of the key enhancements I made was to implement Dependency Injection and Partial Table concepts for adding skills and profile to the website.

By using Dependency Injection, I was able to break down the components of the skills and profile sections into smaller, more manageable pieces. This approach improved the scalability and maintainability of the codebase, and allowed me to add new features and functionality as needed. Additionally, I used Partial Table concept to break down the large data tables into smaller components, which improved the website's performance and user experience.

I also used SyncFusion to enhance the website's UI. SyncFusion allowed me to create more visually appealing and user-friendly interfaces for the website's components, which in turn, improved the overall user experience.

Overall, the enhancements I made to my job portal website using Blazor, including the use of Dependency Injection, Partial Table concept, and SyncFusion, improved the website's architecture, functionality, and user experience.

Additional Details about Website:

The website allows users to:

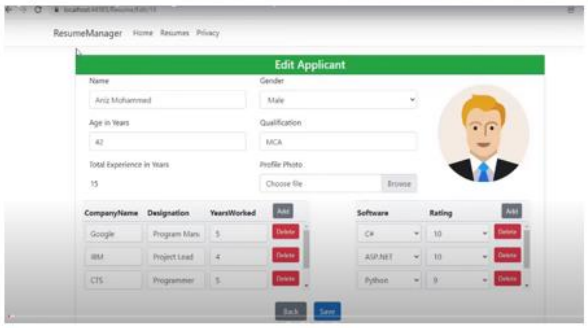
- Create a new account and login with their credentials.
- View job postings and apply for them.
- Manage their job applications.
- Post job listings, manage job listings and view job applications for their listings.

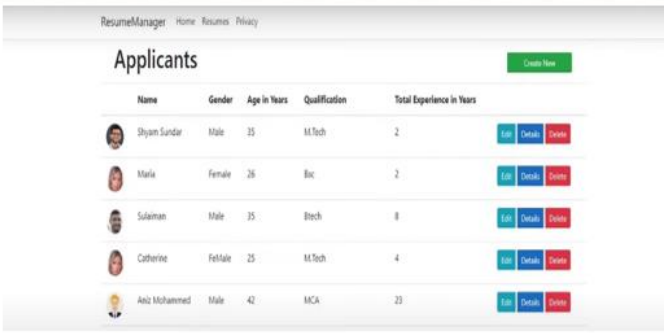
The roles assigned to users are:

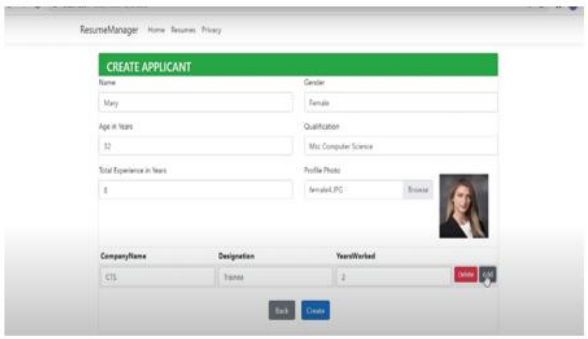
- Job Seekers: They can view job postings and apply for them. They can also manage their job applications.
- Employers: They can post job listings, manage job listings, and view job applications for their listings.

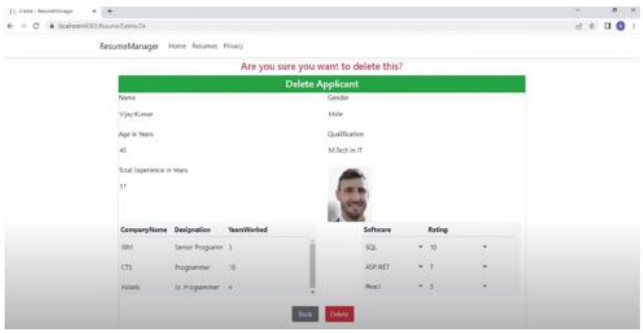
The website uses responsive design, which means that the layout adapts to the user's device screen size, whether it's a desktop, laptop, tablet, or mobile device. This makes the website accessible and user-friendly on different devices.
Overall, the job portal website I have created using Blazor is a responsive, user-friendly site that allows job seekers and employers to easily find and post jobs. The role-based access control adds an extra layer of security and management to the website.

Project 1 b: Job Portal Management System









2.Tank Management System

It was a part of live project and we were given situation or scenario to depict the site. I put forward it in similar fashion. Imagine you work in a large-scale laundry facility and are responsible for managing multiple tanks used for various operations such as cleaning and drying. Keeping track of all the tanks and operations can be overwhelming and time-consuming. That's where the tank management system I developed comes in handy!

- The tank management system is a Blazor server app that features a clean and intuitive user interface, making it easy to manage the various tanks and operations. It includes five screens or views that allow users to create tanks, allocate them for specific operations, and adjust lab parameters to ensure optimal performance.

- The tank creation screen is the first step in managing the tanks. Here, you can input details such as the tank name, ID, and capacity. Once the tanks are created, you can allocate them to specific operations using the operation allocation screen. Here, you can select the type of operation and specify the duration of the operation. This information is then used to create a mapping between the tanks and operations in the third screen. The use of Syncfusion UI here makes it easy to scroll or slide through the mapping screen.

- The home screen features a dashboard that provides an overview of the tasks completed and tasks pending. The Grantt chart displayed here makes it easy to track the progress of the operations in real-time. The lab parameter screen allows you to adjust parameters such as temperature, moisture, and humidity, to ensure that the operations are running smoothly.

- To improve the website's functionality and user experience, I implemented Dependency Injection and Partial View concepts. The use of Partial View helps to break down the large data tables into smaller components that are easier to navigate. Additionally, the use of Dependency Injection allows the components of the website to be broken down into smaller, more manageable pieces, improving the scalability and maintainability of the codebase.
- The website also includes a role-based access control system, ensuring that users can access only the parts of the website they are authorized to view. This improves security and reduces the risk of unauthorized access to sensitive information.

Overall, the tank management system I developed is an efficient and user-friendly solution for managing multiple tanks in a large-scale laundry facility. The use of Partial View, Dependency Injection, and Syncfusion UI, in combination with the role-based access control system, makes it easy to manage the various tanks and operations, ensuring optimal performance and reducing the risk of errors.

Comparing it with ASP.Net Framework

- The tank management system developed in Blazor uses a server-side approach and is built on top of .NET Core. It utilizes Razor syntax and WebAssembly to create interactive user interfaces, which makes it easier to develop dynamic and responsive applications. The system also makes use of Dependency Injection and Partial View concepts to improve the website's functionality and user experience.

- On the other hand, a similar system developed using ASP.NET would utilize the .NET Framework instead of .NET Core. ASP.NET also supports the use of Razor syntax and the MVC (Model-View-Controller) pattern to create dynamic and responsive web applications. However, instead of WebAssembly, ASP.NET relies on server-side rendering to generate HTML pages for the browser.

- One significant advantage of using ASP.NET is that it offers a wide range of libraries and frameworks to choose from, such as SignalR for real-time communication and Entity Framework for database access. Additionally, ASP.NET has better integration with Visual Studio, which provides a more robust development environment for developers.

- However, one disadvantage of using ASP.NET is that it may not be as lightweight and fast as Blazor, especially when dealing with a large number of concurrent users. Additionally, ASP.NET requires a Windows environment to run, which may limit its deployment options compared to Blazor.

In summary, while both Blazor and ASP.NET can be used to develop dynamic and responsive web applications, Blazor has the advantage of using WebAssembly to create more interactive user interfaces, while ASP.NET offers a wider range of libraries and frameworks to choose from and better integration with Visual Studio. Ultimately, the choice between Blazor and ASP.NET would depend on the specific needs of the project and the expertise of the development team

Chapter – 5

CONCLUSION AND FUTURE SCOPE

Conclusion and futurework

The Visitor Management System project aimed to develop a data-driven approach to enhance the security and visitor management process of premises. The system provides real-time monitoring of visitor activity, enabling authorized personnel to track visitor movements and receive alerts for any security breaches. By implementing such a system, organizations can make informed decisions based on visitor data, improving efficiency, reducing costs, and providing a higher quality of service to visitors.

In conclusion, the Visitor Management System project has successfully achieved its objectives by developing a web-based application that accurately predicts visitor presence and monitors their activity. Future work could involve further improving the user interface and experience, enhancing the security features, and integrating additional functionalities such as facial recognition or advanced analytics for data-driven insights. The project has demonstrated the importance of using a structured approach to web development, including planning, design, development, testing, deployment, and maintenance, to ensure the system is functional, secure, and meets the specific needs of the organization

Chapter – 6

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Chapter – 7

INTERNSHIP DETAILS

6.1 Internship Certificate

NUTSHELL
INFOSOFT PVT. LTD.
Makes Business Smart
An ISO 27001 Certified Company

Reg. Office: Plot No. 56 Gat No. 25/1/1, Nr. Shivdham Temple, Old Hiway Jalgaon 425003 (MH), India
Website: https://nutshellinfosoft.com | Mail: info@nutshellinfosoft.com | Contact: +91 9370559000, +91 0253 4042735

Doc No: NSI-1031

Date : 28/04/2023

Certificate of Internship

To,

Mr. Yash Jadhav
Nashik - Maharashtra

This is to inform whomsoever it may concern and certify that **Mr. Yash Jadhav** was working as a full-time employee with **Nutshell Infosoft Private limited** as **Dot Net Trainee Developer** from **01/02/2023 to 28/04/2023.**

During his employment, we found him to be a professional, knowledgeable and result oriented with theoretical and practical understanding of work requirements. He has successfully completed many job-related training programmers administered by the training department of the company. He has a friendly, outgoing personality, very good sense of humor and works well as an individual or member of a team as required by the management.

Overall, He performed his duties and responsibilities cheerfully with attention to detail at all times. With him enthusiasm to work, learn and progress, I am certain that he would make a great employee to any enterprise. Please feel free to contact us if you have specific questions regarding his employment.

On behalf of the company, I take this opportunity to wish him all the very besting his future career endeavors.

Best Regards,

HR Head

NUTSHELL INFOSOFT PVT. LTD.

IBM Microsoft Azure aws Crayon GeM MSME Ministry of MSME, Govt. of India

Corporate Office: Office 202 2nd Floor, Sagar Plaza, Mumbai Agra Hwy., Near Amrutdham, Panchavati, Nashik 422003, (MH), India.
CIN: U72900MH2020PTC350043 | GSTIN: 27AAHCN3058K1Z5 | MSME: UDYAM-MH-23-0020073

6.2 Company Details

- Company Name – Nutshell Infosoft PVT LTD
- Location - Plot 17, Priyanka Park, Near City Center Mall, Nashik, Maharashtra 422008
- Internship Mode - Offline
- Background - It has been classified as non-govt company and is registered under Registrar of Companies Maharashtra India. Company provides different types of Software and Internship Programs.

6.3 Supervisor Details

- Name – Shreyas Brahma
- Email – shreyas.b@nnutshellinfosoft.com
- Mobile - +91937055900

6.4 Attendance Record

Name of student	Yash Jadhav
Roll No	26
Div.	A
Name of Course	Web Development Internship
Date of Commencement of Internship	01 Feb 2023
Date of Completion of Training	28 Apr 2023
Organization Name	Nutshell Infosoft PVT LTD

Month & Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Month & Year	17	18	19	20	21	22	23	24	25	26	27	28

Month & Year	1	2	3	4	5

Industry Signature:

Industry Supervisor Name:

Email ID: