



**GOA ELECTRONICS LTD**

**INTERNSHIP REPORT**

**GOA TOURISM**

POOJAN PRASHANT NAIK  
2110

GOA ELECTRONICS LTD  
Name of the company

Goa University

## **GOA TOURISM**

Completed by  
POOJAN NAIK  
2110

for the partial fulfillment of  
MCA Degree for Semester VIV/V  
Discipline of Computer Science and Technology,  
Goa Business School,  
Goa University

At  
GOA ELECTRONICS LTD

Head Office Goa Electronics Limited (**GEL**) **Ground floor, Shramshakti  
Bhavan, EDC Complex, Patto Plaza, Panjim, Goa – 403001.**

Under the guidance of  
Tanvee Chodnekar  
(HR, Goa Electronics Limited)



## **GOA ELECTRONICS LTD**

Date: 10/JUNE/2023

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr./Ms. \_\_\_\_\_ student of Master of Computer Applications (MCA) of Goa University, Goa, is currently undergoing/has completed his/her final semester project (Semester VI/V) at our company, *GOA ELECTRONICS LTD* from 20<sup>th</sup> December 2022 to 20<sup>th</sup> May 2023.

During his tenure he has met the expectations of his team lead and found to be regular and sincere.

This certificate is being issued on his request to be submitted with the project report at Goa University.

For *GOA ELECTRONICS LTD*

## GOA UNIVERSITY



## GOA BUSINESS SCHOOL

### CERTIFICATE OF EVALUATION

This is to certify that Mr. POOJAN PRASHANT NAIK has successfully completed her internship at GOA ELECTRONICS LTD, Head Office Goa Electronics Limited (GEL) **Ground floor, Shramshakti Bhavan, EDC Complex, Patto Plaza, Panjim, Goa – 403001.**, in partial fulfillment of the award of the degree in Master of Computer Application.

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Examiner 1

Examiner 2

Place: Goa University

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Date: DateOfPresentation/06/2023

Dean, Goa Business School

## Acknowledgement

I would like to take this opportunity to express gratitude and appreciation to at Goa Electronics Limited (GEL) for providing me with an enriching and rewarding internship experience as a Software Developer.

The chance to work at GEL has not only deepened my knowledge but has also given me practical exposure to the intricacies of the software development industry.

I would like to express my sincere gratitude to my internship supervisor for their unwavering support, guidance, and mentorship throughout the duration of my internship. Their expertise and insightful feedback have been instrumental in shaping my technical skills and professional growth.

I would also like to extend my appreciation to the entire software development team at GEL. Their collaborative spirit, willingness to help, and dedication to their work have made my internship experience all the more fruitful. The team's commitment to excellence and their passion for innovation have inspired me to strive for higher standards in my own work.

Furthermore, I would like to thank the HR department and all the administrative staff at GEL for their constant support and assistance throughout my internship. Their efforts ensured a smooth onboarding process and provided a conducive work environment that fostered learning and personal growth.

Last but not least, I would like to express my appreciation to my fellow interns. Their teamwork, and shared experiences have made this internship journey memorable. Together, we navigated challenges, exchanged ideas, and formed lasting connections.

Great full at Goa Electronics Limited for their support, guidance, and belief in my abilities. It has been an incredible privilege to intern at your esteemed organization, and I am grateful for the valuable lessons and experiences that will stay with me for a lifetime.

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## Introduction

This internship project report presents the culmination of my experience and learning during my internship at GOA ELECTRONICS LTD. I had the opportunity to work closely with the programmers and gain hands-on experience. This report aims to provide an overview of the project I undertook, the objectives set forth, the methodologies employed, and the key outcomes and insights gained throughout the internship.

The primary objective of this internship was to apply my academic knowledge and skills in a professional setting, further enhancing my understanding of the industry and expanding my practical capabilities. Additionally, the internship provided an invaluable opportunity to gain exposure to the inner workings of GOA ELECTRONICS LTD its culture, values, and work dynamics. By actively participating in various projects and collaborating with experienced professionals, I was able to gain a deeper insight into the practical application of concepts learned in the classroom.



## Company profile



## **GOA ELECTRONICS LTD**

GEL capabilities include areas like IT-Project Management, Business Analysis, Application Development, Database Administration, System and Network Administration, Hardware Supply and Maintenance. Software Technologies supported by GEL encompasses Web Development, Client Server, Object Oriented Development, Legacy System, Project based development, Conversion and Integration. GEL in Collaboration with other technical companies has also expertise in the field of Digitization of Spatial Data and Smart Cards and GIS based applications.

GEL, a wholly owned subsidiary of EDC Ltd. was started in 1978. GEL was originally involved in the manufacture of CTVs, B/W TVs and audio sets . GEL had diversified in the IT sector and was identified as one of the agency for providing IT support to Government departments in the state of Goa. Since then GEL has been providing fee based IT support to various Government Departments.

The Goa Electronics Ltd. “Think tank” comprises of Management, Marketing, Development, Operations and Recruitment teams. Our “Think tank” is responsible for ensuring that every aspect of service for our clients, vendors and employees is of the highest quality. With the help of this team we walk the proverbial extra mile to make sure our clients feel comfortable, secure and happy to work with us.

## **My Designation in Company and important roles performed as an Intern**

My designation in the Company as a trainee software engineer the important roles performed as an intern were:

**Coding and Programming:** Intern software developers are responsible for writing code and programming according to the project requirements. This involves learning and using programming languages, frameworks, and tools relevant to the company's tech stack.

**Software Testing and Debugging:** Interns may assist in testing software applications to identify bugs, errors, and areas for improvement. This includes conducting tests, documenting issues, and collaborating with the development team to resolve them.

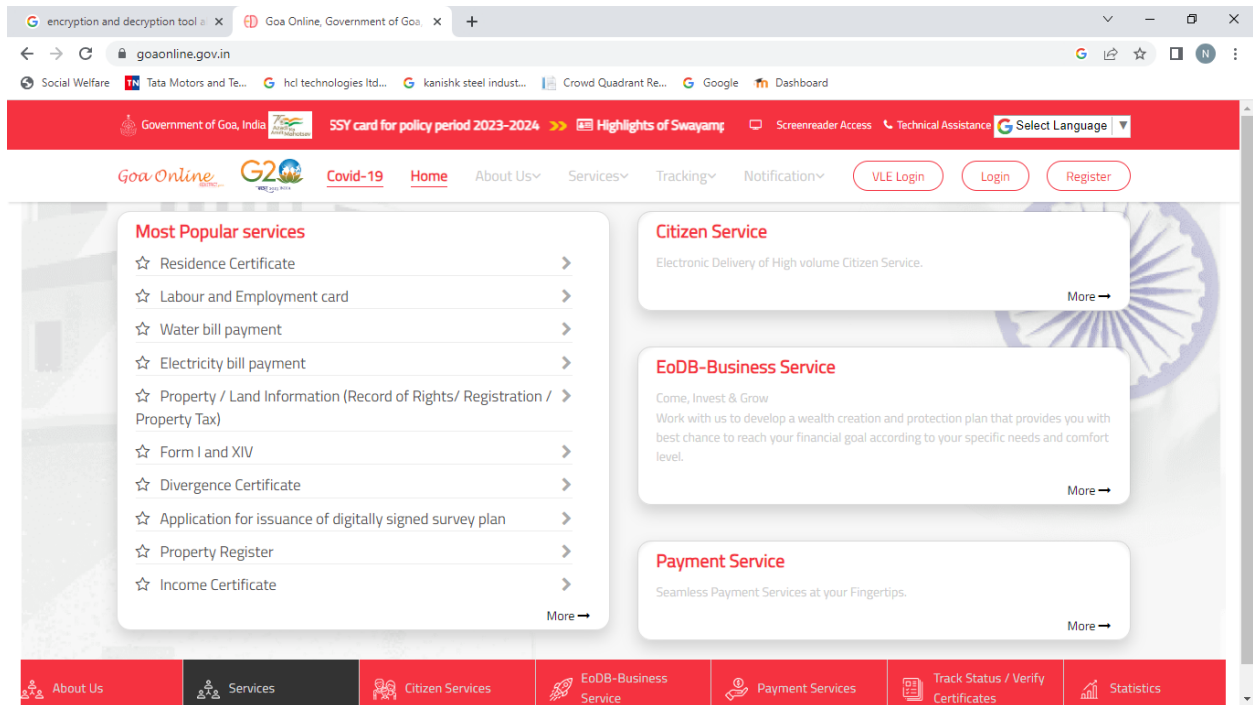
**Documentation:** Interns often participate in documenting software development processes, including creating technical specifications, user manuals, and other relevant documentation. This helps maintain a clear record of the project and facilitates future updates or maintenance.

**Collaboration and Communication:** Interns typically work closely with other developers, project managers, and stakeholders. Effective communication and collaboration skills are important to understand requirements, provide progress updates, and seek assistance when needed.

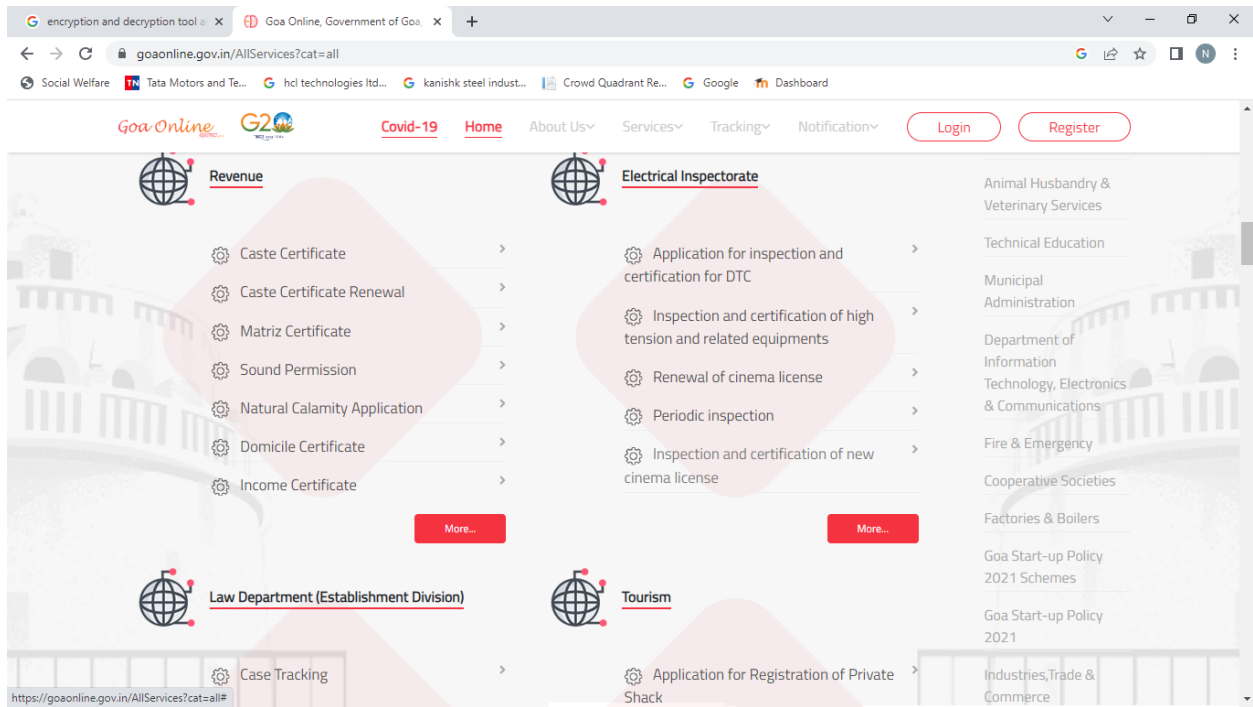
**Learning and Skill Development:** As an intern, one of the primary objectives is to learn and enhance your skills. This may involve exploring new technologies, attending training sessions or workshops, and staying updated with industry trends and best practices.

**Problem Solving:** Intern software developers are expected to analyze and solve technical problems or challenges that arise during the development process. This requires critical thinking, troubleshooting skills, and the ability to work independently or in a team to find solutions.

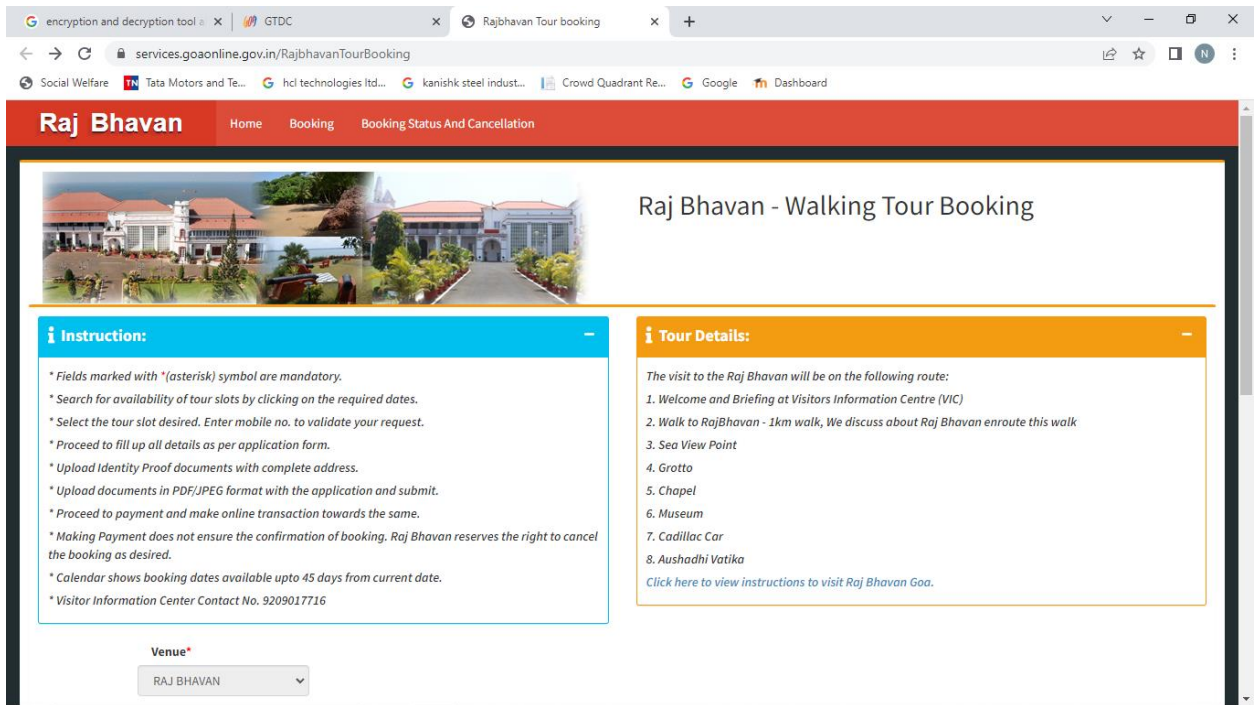
# Problem Statement



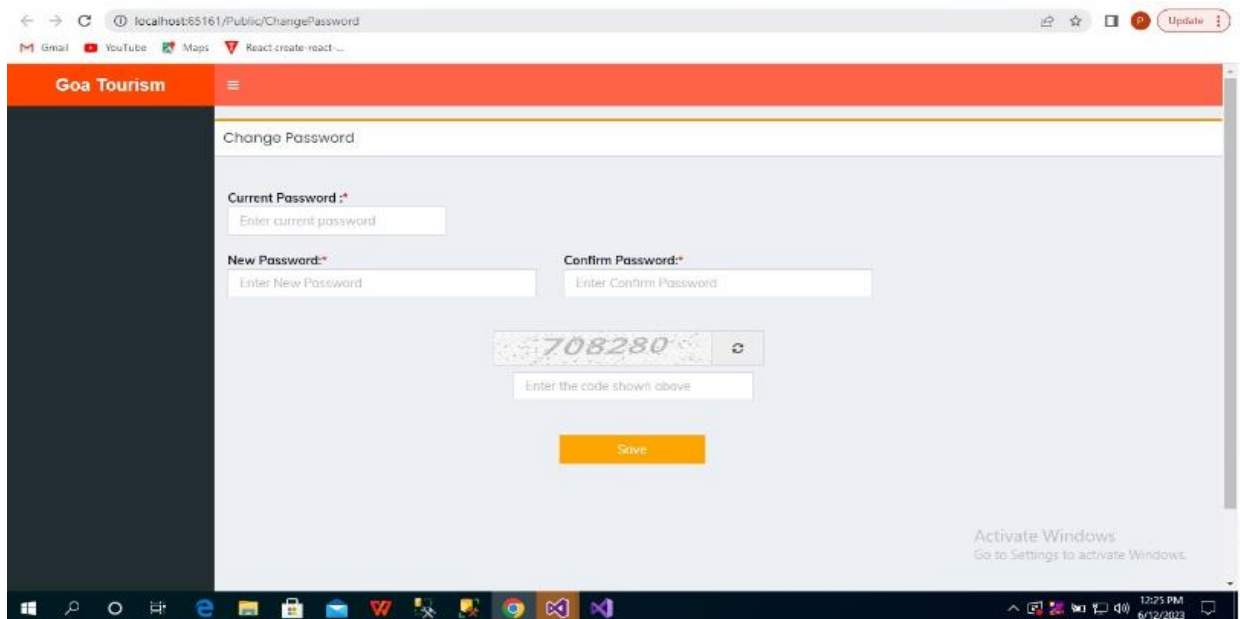
1. On Goa Online website that more was not getting highlighted  
Then I was told to highlight it



2. On Goa Online web site there were some Css issues some parts were not aligned properly
3. On Raj bhavan website the visitors id details were not visible so the was some changes in the code.



4. On GTDC website there was no change password feature so I was told to add it there was captcha to be added.



## **My contributions**

As a full stack software developer at GEL. I have made many contributions to the company's projects. My role involves working on both the front end and back end of software applications.

On the front end I was responsible for designing and building the user interface (UI) that people see and interact with. This includes creating visually appealing layouts, implementing user-friendly features, and ensuring a smooth and responsive experience for the users and .Net, CSS has helped in creating attractive and functional interfaces.

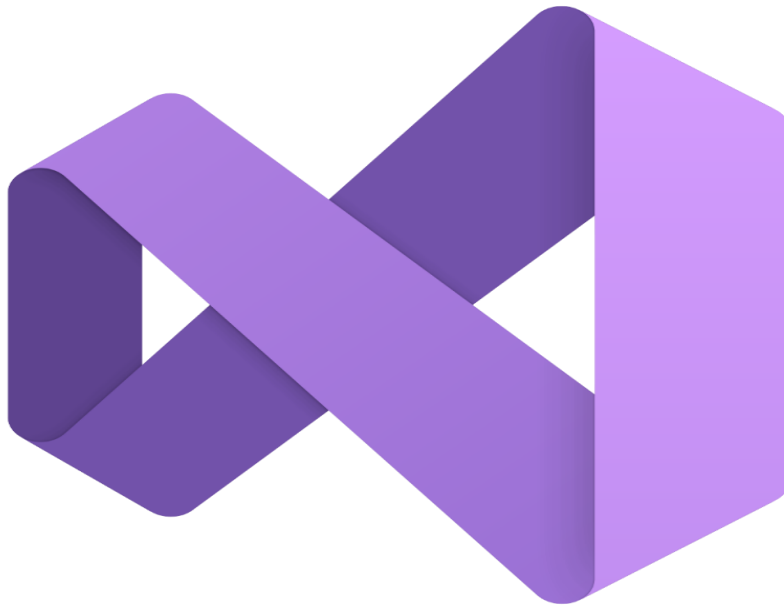
On the back end I have worked with databases and server-side technologies. I have used SSMS to manage and handle the database of the website.

And I also got an opportunity to learn React js to design a user information form and I was given a shopping website to design for my practice and to improve my skills in React js.

Overall My contribution as a full stack software developer at GEL has been crucial in creating websites that meet the company's goals and satisfy the needs of its clients or end-users.

## Tools and Technologies Used

### Microsoft Visual Studio 2015



Visual Studio 2015 introduces a connected IDE experience. Visual Studio 2013 provides the ideal toolset for building modern applications that leverage the next wave in Windows platform innovation (Windows 8.1), while supporting devices and services across all Microsoft platforms.

Creating websites or services on the Microsoft platform provides you with many options, including ASP.NET WebForms, ASP.NET MVC, WCF or Web API services, etc. In the past, working with each of these approaches in Visual Studio meant working with separate project types and tooling isolated to that specific project capabilities. The One ASP.NET vision unifies your web project experience in Visual Studio 2013 so that you can create ASP.NET web applications using your preference of ASP.NET component frameworks in a single project. This new unified experience includes the ability to easily create hybrid applications that include improved versions of ASP.NET WebForms, MVC or Web API, all in a single project. Now you can mix and match the right tools for the job within your web projects, giving you increased flexibility and productivity when developing for the web.

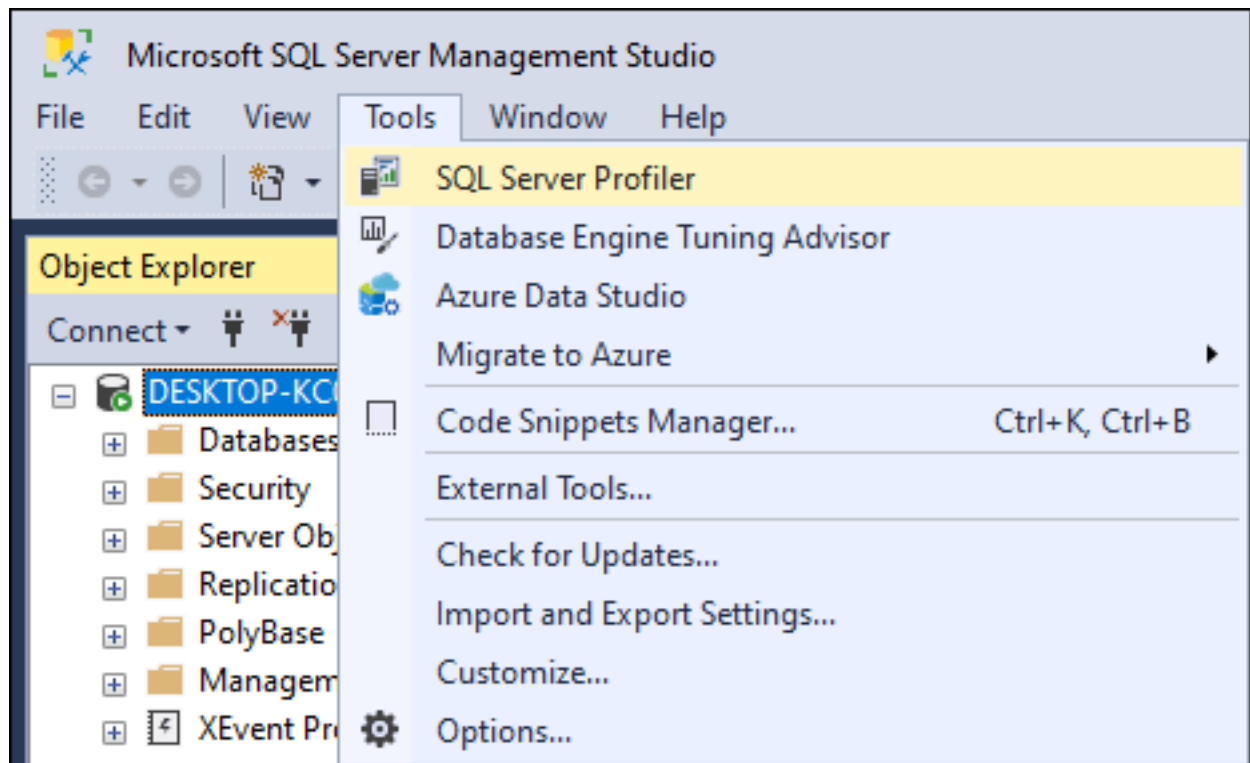


SQL Server Management Studio (SSMS) is an integrated environment for managing any SQL infrastructure. Use SSMS to access, configure, manage, administer, and develop all components of SQL Server. SSMS provides a single comprehensive utility that combines a broad group of graphical tools with many rich script editors to provide access to SQL Server for developers and database administrators of all skill levels.

It allows developers to write and execute complex queries against SQL Server databases. It provides a rich query editor with syntax highlighting, IntelliSense (auto-completion), and debugging capabilities. Developers can also save and organize their SQL scripts for future use.



## Microsoft SQL Server Profiler



SQL Server Profiler is an interface to create and manage traces and analyze and replay trace results. Events are saved in a trace file that can later be analyzed or used to replay a specific series of steps when diagnosing a problem. Microsoft SQL Server Profiler is a graphical user interface to SQL Trace for monitoring an instance of the Database Engine or Analysis Services. You can capture and save data about each event to a file or table to analyze later.

## Gel jira

GEL JIRA is an interface which was used to send tickets and assign tasks and record your working hours. It was used create stand up meets, search a ticket or issues assign to you. It was developed in React js.

## Gel TIME MANAGER

Gel TIME MANAGER is an interface which was used by the company to check in and check out your attendance. It was also used to apply for leaves and to view your attendance etc.

Postman



POSTMAN

Postman is an API platform for building and using APIs. Postman simplifies each step of the API lifecycle and streamlines collaboration so you can create better APIs—faster.

The Postman platform includes a comprehensive set of tools that help accelerate the API lifecycle from design, testing, documentation, and mocking to the sharing and discoverability of your APIs.

Git hub



GitHub is a code hosting platform for version control and collaboration. It lets you and others work together on projects from anywhere. This tutorial teaches you GitHub essentials like repositories, branches, commits, and pull requests.

GitHub is an increasingly popular programming resource used for code sharing. It's a social networking site for programmers that many companies and organizations use to facilitate project management and collaboration.

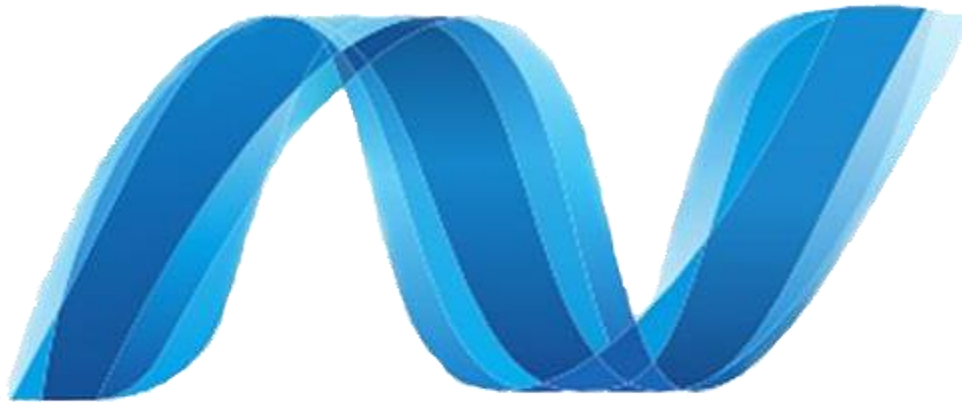
## Encryption tool

Encryption is the process by which a readable message is converted to an unreadable form to prevent unauthorized parties from reading it. Decryption is the process of converting an encrypted message back to its original (readable) format. The original message is called the plaintext message.

It helps protect private information, sensitive data, and can enhance the security of communication between client apps and servers. In essence, when your data is encrypted, even if an unauthorized person or entity gains access to it, they will not be able to read it.

## Technologies Used

ASP.NET



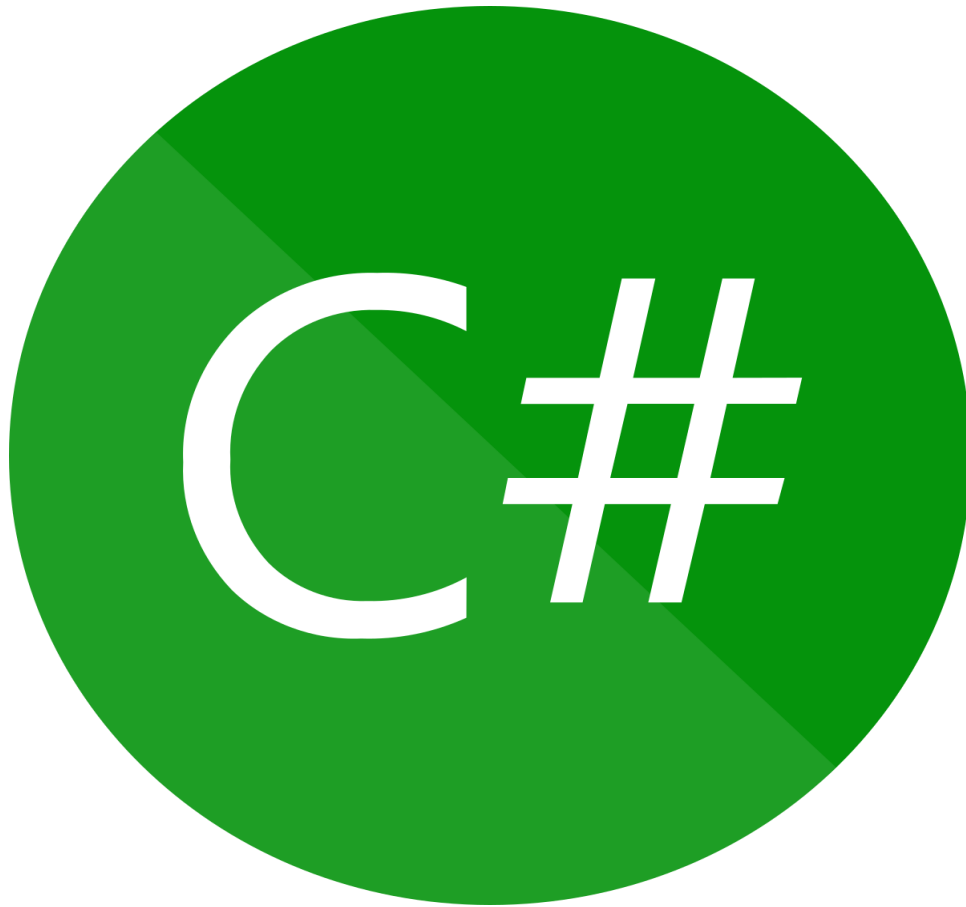
ASP.net

ASP.NET is a web application framework designed and developed by Microsoft. ASP.NET is open source and a subset of the .NET Framework and successor of the classic ASP(**A**ctive **S**erver **P**ages). With version 1.0 of the .NET Framework, it was first released in January 2002. So a question comes to mind that which technology we were using before the year 2002 for developing web applications and services? Answer is **Classic ASP**. So before .NET and ASP.NET there was *Classic ASP*.

ASP.NET is built on the CLR(Common Language Runtime) which allows the programmers to execute its code using any .NET language(C#, VB etc.). It is specially designed to work with HTTP and for web developers to create dynamic web pages, web applications, web sites, and web services as it provides a good integration of HTML, CSS, and JavaScript.

.NET Framework is used to create a variety of applications and services like Console, Web, and Windows, etc. But ASP.NET is only used to create web applications and web services. That's why we termed ASP.NET as a subset of the .NET Framework.

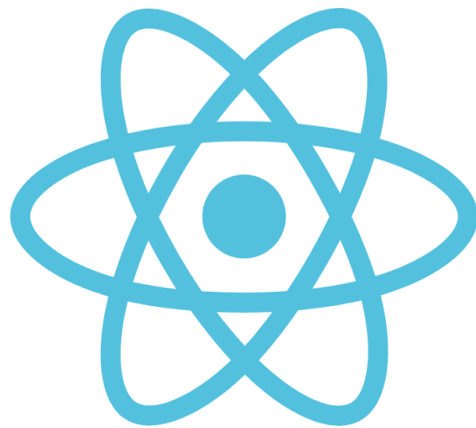
C#



C# is an object-oriented, component-oriented programming language. C# provides language constructs to directly support these concepts, making C# a natural language in which to create and use software components. Since its origin, C# has added features to support new workloads and emerging software design practices.

C# can be used to create a number of different programs and applications: mobile apps, desktop apps, cloud-based services, websites, enterprise software and games.

React.js



# React JS

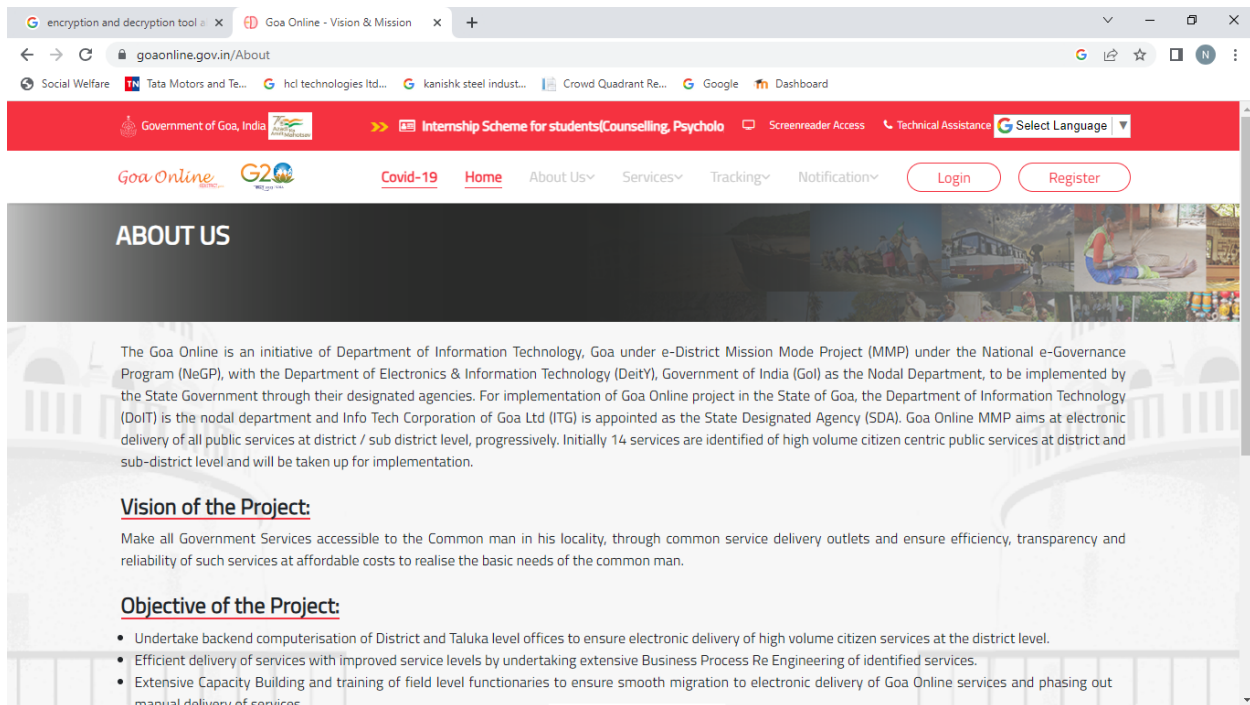
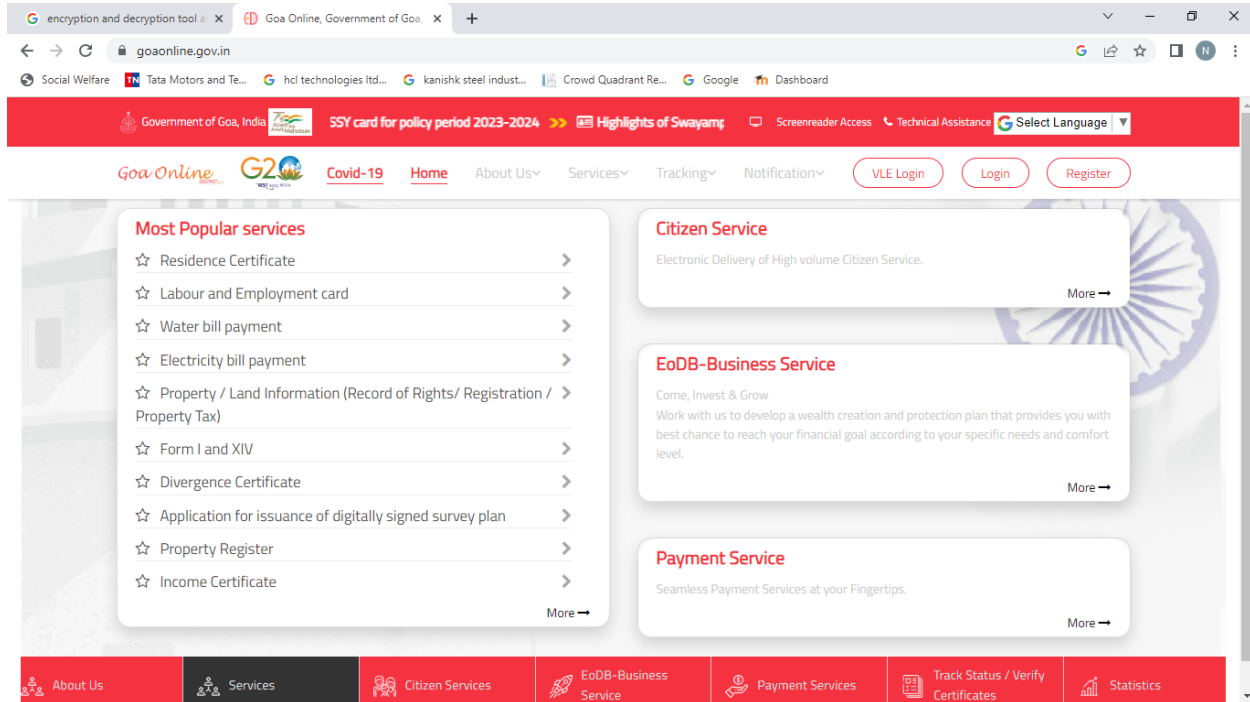
React is a JavaScript-based UI development library. Facebook and an open-source developer community run it. Although React is a library rather than a language, it is widely used in web development. The library first appeared in May 2013 and is now one of the most commonly used frontend libraries for web development.

The React.js framework is an open-source JavaScript framework and library developed by Facebook. It's 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 library for building composable user interfaces. It encourages the creation of reusable UI components, which present data that changes over time. Lots of people use React as the V in MVC. React abstracts away the DOM from you, offering a simpler programming model and better performance.



# Screenshots



Goa Online, Government of Goa

goaonline.gov.in/AllServices?cat=all

Social Welfare Tata Motors and Te... hcl technologies ltd... kanishk steel indust... Crowd Quadrant Re... Google Dashboard

Goa Online G20

Covid-19 Home About Us Services Tracking Notification Login Register

**Revenue**

- Caste Certificate
- Caste Certificate Renewal
- Matriz Certificate
- Sound Permission
- Natural Calamity Application
- Domicile Certificate
- Income Certificate

More...

**Electrical Inspectorate**

- Application for inspection and certification for DTC
- Inspection and certification of high tension and related equipments
- Renewal of cinema license
- Periodic inspection
- Inspection and certification of new cinema license

More...

**Law Department (Establishment Division)**

- Case Tracking

**Tourism**

- Application for Registration of Private Shack

Animal Husbandry & Veterinary Services

Technical Education

Municipal Administration

Department of Information Technology, Electronics & Communications

Fire & Emergency

Cooperative Societies

Factories & Boilers

Goa Start-up Policy 2021 Schemes

Goa Start-up Policy 2021

Industries, Trade & Commerce

https://goaonline.gov.in/AllServices?cat=all#

GTDC Rajbhavan Tour booking

services.goaonline.gov.in/RajbhavanTourBooking

Social Welfare Tata Motors and Te... hcl technologies ltd... kanishk steel indust... Crowd Quadrant Re... Google Dashboard

**Raj Bhavan** Home Booking Booking Status And Cancellation

**Raj Bhavan - Walking Tour Booking**

**Instruction:**

- \* Fields marked with \*(asterisk) symbol are mandatory.
- \* Search for availability of tour slots by clicking on the required dates.
- \* Select the tour slot desired. Enter mobile no. to validate your request.
- \* Proceed to fill up all details as per application form.
- \* Upload Identity Proof documents with complete address.
- \* Upload documents in PDF/JPEG format with the application and submit.
- \* Proceed to payment and make online transaction towards the same.
- \* Making Payment does not ensure the confirmation of booking. Raj Bhavan reserves the right to cancel the booking as desired.
- \* Calendar shows booking dates available upto 45 days from current date.
- \* Visitor Information Center Contact No. 9209017716

**Tour Details:**

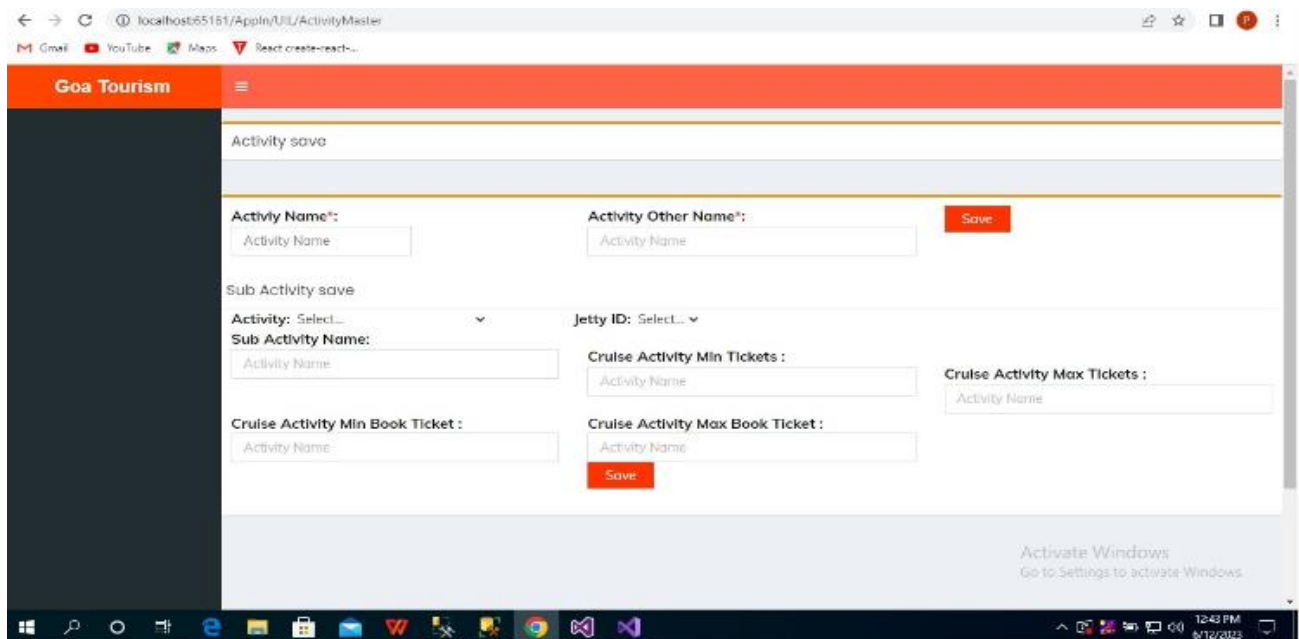
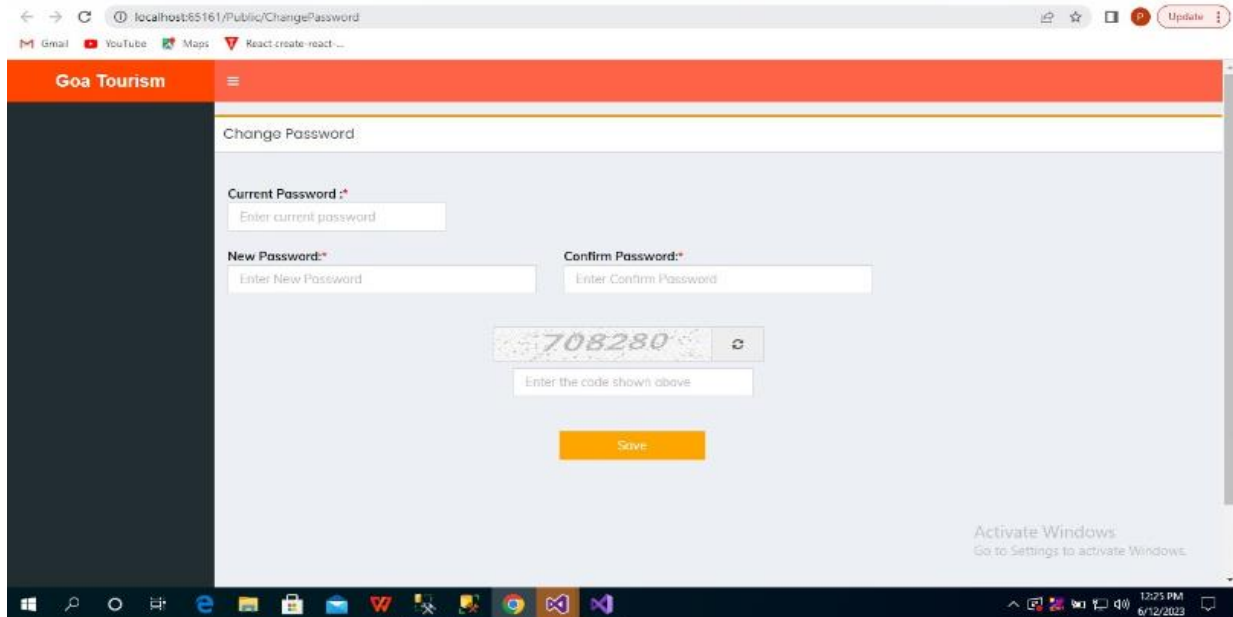
The visit to the Raj Bhavan will be on the following route:

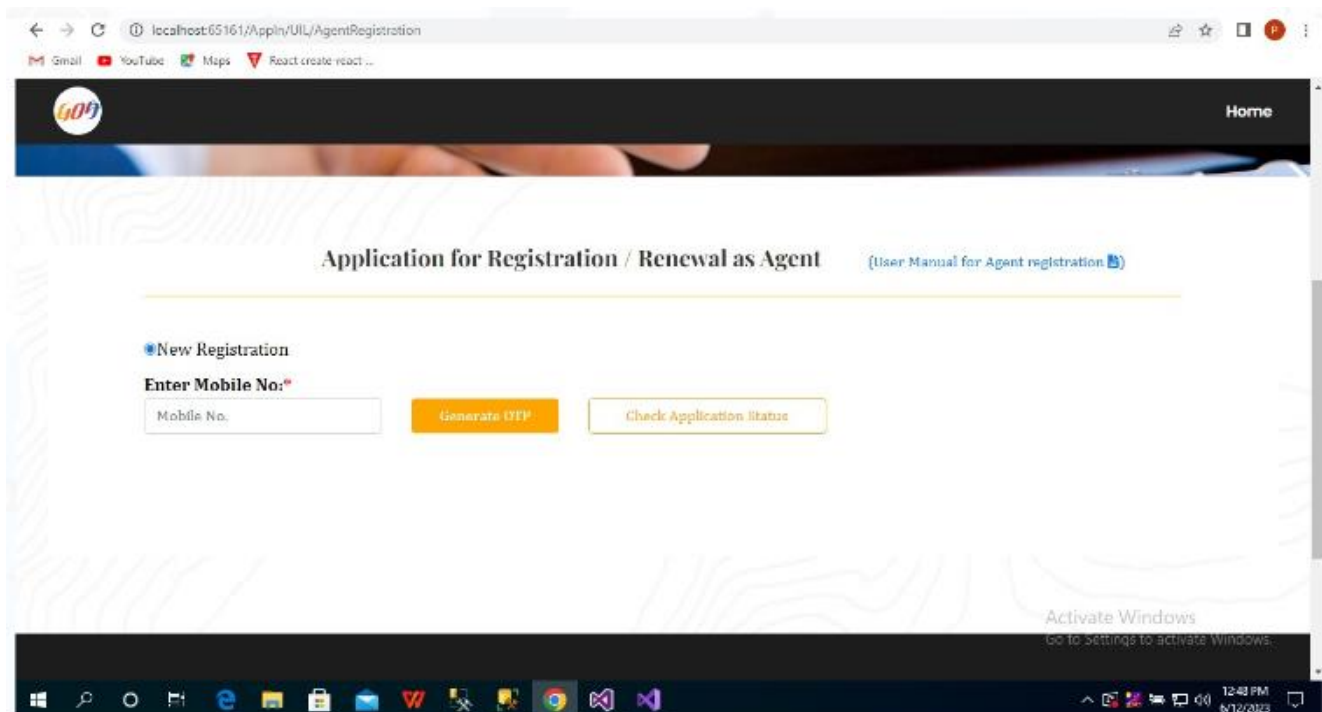
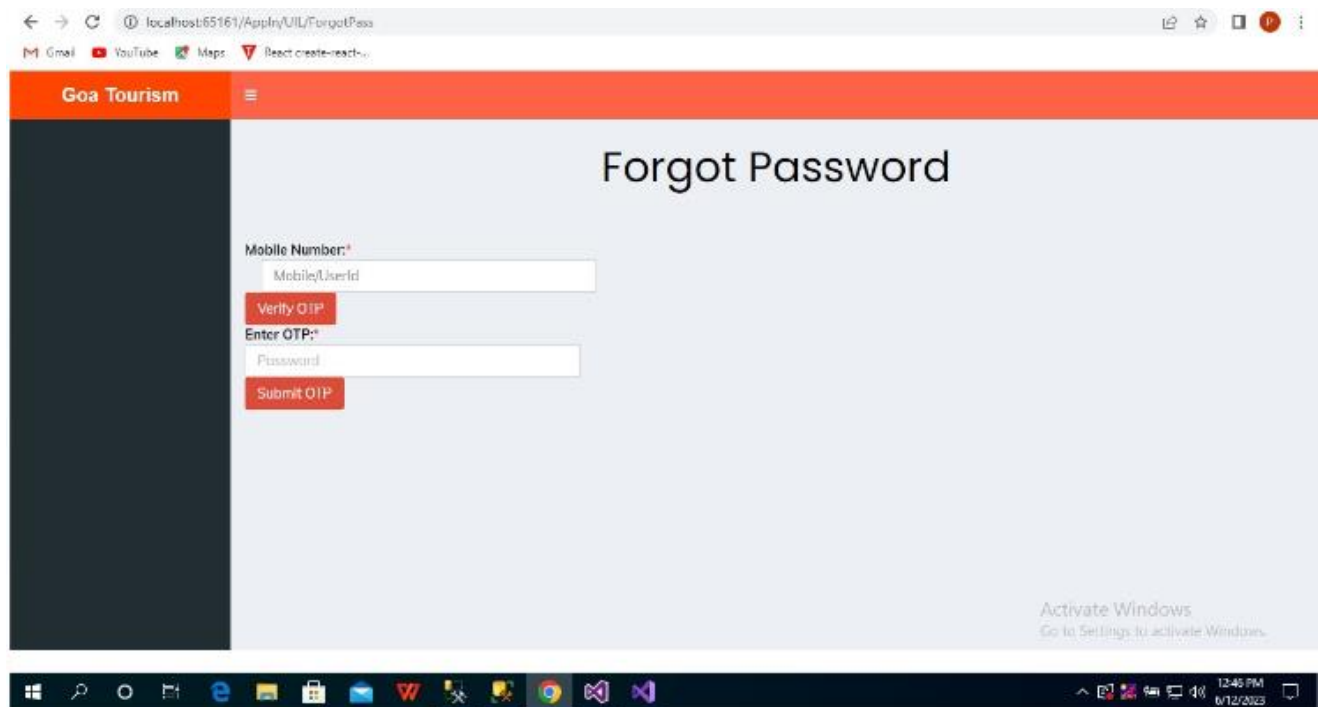
1. Welcome and Briefing at Visitors Information Centre (VIC)
2. Walk to Raj Bhavan - 1km walk, We discuss about Raj Bhavan enroute this walk
3. Sea View Point
4. Grotto
5. Chapel
6. Museum
7. Cadillac Car
8. Aushadhi Vatika

[Click here to view instructions to visit Raj Bhavan Goa.](#)

Venue\*

RAJ BHAVAN





## Other Additional Tasks

I was given to design a website and web form in React js

### Registration page

Name

\*Please enter your username.

Email ID:

\*Please enter your email-ID.

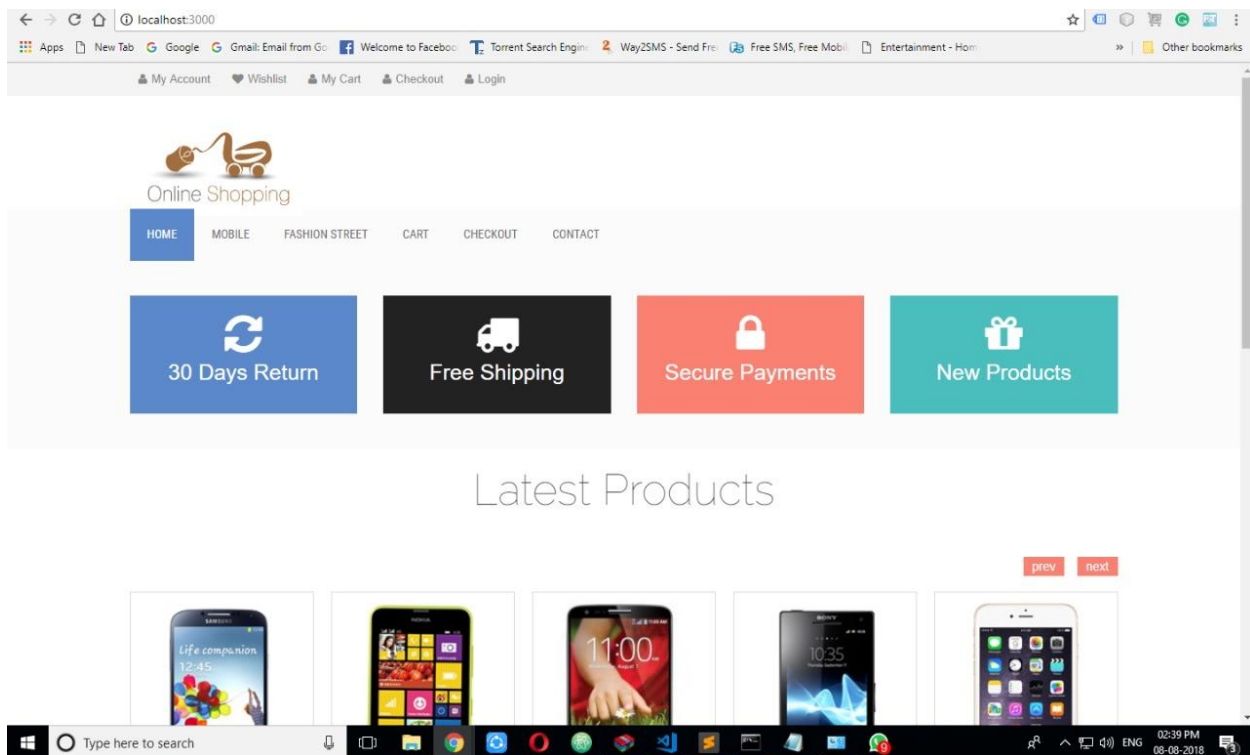
Mobile No:

\*Please enter your mobile no.

Password

\*Please enter your password.

**Register**



## **Conclusions**

In conclusion, I am immensely grateful to Goa Electronics Limited for granting me the opportunity to intern as a Software Developer. The knowledge, skills, and experiences I have gained during this internship will undoubtedly shape my future endeavors in the field of software development. I am truly honored to have been a part of such a prestigious organization, and I will carry the lessons learned here with me throughout my professional journey.

Great full at Goa Electronics Limited for their support, guidance, and belief in my abilities. It has been an incredible privilege to intern at your esteemed organization, and I am grateful for the valuable lessons and experiences that will stay with me for a lifetime.

## Internship Timeline

TASK	START DATE	END DATE
Introduction	21 <sup>th</sup> Dec 2022	25 <sup>th</sup> Dec 2022
Installation	26 <sup>th</sup> Dec 2022	28 <sup>th</sup> Dec 2022
.Net Training	2 <sup>nd</sup> Jan 2023	20 <sup>th</sup> Jan 2023
Database Training	21 <sup>th</sup> Jan 2023	13 <sup>th</sup> Feb 2023
Project understanding	14 <sup>th</sup> Feb 2023	15 <sup>th</sup> Feb 2023
Goa Online issues	15 <sup>th</sup> Feb 2023	28 <sup>th</sup> Feb 2023
Project understanding	1 <sup>st</sup> Mar 2023	3 <sup>rd</sup> Mar 2023
Installation	4 <sup>th</sup> Mar 2023	6 <sup>th</sup> Mar 2023
GTDC design Change password page	7 <sup>th</sup> Mar 2023	10 <sup>th</sup> Mar 2023
GTDC Change password page Backend	11 <sup>th</sup> Mar 2023	29 <sup>th</sup> Mar 2023
GTDC Change password page Backend testing issues	30 <sup>th</sup> Mar 2023	3 <sup>rd</sup> Apr 2023
GTDC Activity Master page design	4 <sup>th</sup> Apr 2023	8 <sup>th</sup> Apr 2023
GTDC Activity Master Backend	9 <sup>th</sup> Apr 2023	23 <sup>th</sup> Apr 2023
GTDC Activity Master testing issues	24 <sup>th</sup> Apr 2023	26 <sup>th</sup> Apr 2023
GTDC Forgot Password page design	26 <sup>th</sup> Apr 2023	27 <sup>th</sup> Apr 2023
GTDC Forgot Password Backend	28 <sup>th</sup> Apr 2023	30 <sup>th</sup> May 2023
GTDC Forgot Password testing	2 <sup>nd</sup> May 2023	3 <sup>rd</sup> May 2023
GTDC Agent Registration design	4 <sup>th</sup> May 2023	5 <sup>th</sup> May 2023
React js training	6 <sup>th</sup> May 2023	16 <sup>th</sup> Ju 2023
React js form design	17 <sup>th</sup> May 2023	18 <sup>th</sup> May 2023
React js shopping website design	19 <sup>th</sup> May 2023	24 <sup>th</sup> May 2023
GEL TM Project understanding	25 <sup>th</sup> May 2023	26 <sup>th</sup> May 2023
Installation	27 <sup>th</sup> May 2023	28 <sup>th</sup> May 2023
GEL TM Update tables and import	29 <sup>th</sup> May 2023	30 <sup>th</sup> May 2023
GEL TM changes PO	31 <sup>st</sup> May 2023	1 <sup>st</sup> Jun 2023
Epay bill issues	2 <sup>nd</sup> Jun 2023	5 <sup>th</sup> Jun 2023
GEL TM Tax regime Design	6 <sup>th</sup> Jun 2023	8 <sup>th</sup> Jun 2023
GEL TM Tax regime Backend	8 <sup>th</sup> Jun 2023	10 <sup>th</sup> Jun 2023



## Experiences of internship

I had the incredible opportunity to intern as a software developer at Goa Electronics Ltd. It was an exciting prospect for me to work in a renowned company like Goa Electronics, which is known for its innovative projects and cutting-edge technologies. Over the course of [duration] internship, I was able to enhance my skills, gain practical experience, and contribute to meaningful projects. In this article, I will share my experiences and key takeaways from my internship at Goa Electronics Ltd.

Throughout my internship, I had the opportunity to work on several exciting projects. One of the main projects I was involved in was the development of an inventory management system for one of the company's clients. My responsibilities included designing the database schema, implementing the backend logic, and collaborating with the frontend team to ensure seamless integration. This project allowed me to apply my knowledge of software development and learn new technologies.

My internship at Goa Electronics provided me with a platform to enhance my technical skills significantly. Working on real-world projects gave me hands-on experience in software development methodologies, coding best practices, and the software development life cycle. I learned to write clean and efficient code, conduct code reviews, and collaborate effectively within a development team.

## References

<https://www.rajbhavan.goa.gov.in/>

<https://goaonline.gov.in/>

<https://goa-tourism.com/>