



## INTERNSHIP REPORT

REPORT OF INTERNSHIP DONE AT NATIONAL INFORMATICS CENTER –  
secretariat porvorim GOA

SUBMITTED BY:

**CHETANA ASHOK MARATHE**

**1929**

UNDER THE GUIDANCE OF

**Ms. DIPTI KAMAT (Senior Software Engineer)**

**MR.K.V RAMANATHAN (TECHNICAL DIRECTOR, NIC-SECRETARIAT)**

# INTERNSHIP CERTIFICATE

भारत सरकार  
संचार और सूचना प्रौद्योगिकी मंत्रालय  
सूचना प्रौद्योगिकी विभाग  
राष्ट्रीय सूचना - विज्ञान केंद्र  
गोवा राज्य केंद्र  
एच ब्लॉक, पारैसो डी गोवा  
पर्वरी, गोवा - 403 521  
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GOVERNMENT OF INDIA  
MINISTRY OF COMMUNICATIONS &  
INFORMATION TECHNOLOGY  
DEPARTMENT OF INFORMATION TECHNOLOGY  
**NATIONAL INFORMATICS CENTRE**  
Goa State Centre  
H Block, Paraiso de Goa  
Porvorim, Goa - 403 521  
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No. MEIT/NIC/GOA/SECT/2022/23

Dated: 25/04/2022

To

The Internship Coordinator,  
Goa University,  
Taleigao - Goa.

Sub : Internship Program of MCA Final Year Students for the academic year 2021-2022.

Ref : Your E-Mail dated 27/01/2022.

Sir/Madam,

Please refer your E-Mail dated 27/01/2022 and our reply by E-Mail dated 07/02/2022 regarding above subject.

We inform you that **Ms. Chetana Ashok Marathe**, Final year MCA student of Goa University, Taleigao-Goa is selected for Internship Program for a period of five months.

The same was communicated to you and **Ms. Chetana Ashok Marathe** by E-Mail dated 07/02/2022. We have received acceptance from you and **Ms. Chetana Ashok Marathe** on 09/02/2022.

**Ms. Chetana Ashok Marathe** has joined as Internship trainee on **01/02/2022 FN** at **NIC – Goa Secretariat, Porvorim - Goa** under my guidance. The period of internship is from **01/02/2022 to 30/06/2022**.



Yours faithfully,

(K.V. Ramanathan)  
Technical Director

# GOA UNIVERSITY



## GOA BUSINESS SCHOOL

### CERTIFICATE OF EVALUATION

This is to certify that **Miss Chetana Marathe** has been evaluated for the project work titled **“Report of Internship done at National Informatics Center(NIC)”** in partial fulfillment for the award of the degree in Master of Computer Application.

\_\_\_\_\_ Examiner 1

\_\_\_\_\_ Examiner 2

Place: Goa University

Date:

\_\_\_\_\_Dean, Goa Business School

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## **Acknowledgement**

Internships play a crucial role in shaping one's career since they allow one to gain real-world experience in a working I would like to thank Mr. K.V. Ramnathan, Technical Director, NIC for this wonderful opportunity to intern at NIC.

My special and most sincere gratitude goes out to Miss. Dipti Kamat (Senior Software Engineer) & Miss. Kirti Rani (Software Engineer) for their constant guidance and mentorship.

Furthermore, I would like to thank my colleagues Mr. Prateek Satardekar and miss. Amrita Tari, who I've had the pleasure of working alongside who have made learning and working fun and never hesitated to help.

I also would like to express my deep gratitude Mr. Ramdas Karmali (Prof. and TPO, MCA, Goa Business School, Goa University) & Mr. Jarret Fernandes (Assistant Professor, MCA, Goa Business School, Goa University) and all the faculty of MCA, Goa University who have been supportive throughout.

Finally, I would like to thank my family and friends for their continuous support and trust in my endeavors.

## Introduction

This report documents my full-time, onsite internship NIC as a Intern. I started my internship on 1<sup>st</sup> February 2022 and have been here ever since.

The office is located at Secretariat, Porvorim, Goa and office days are from Monday to Friday.

This report contains all the necessary information about the organization, the projects worked on in this internship period.

This report highlights my learning experience and my contributions to the organization as a intern.

It also contains the tools and technologies used during internship. I shall conclude by sharing my experience and how it has helped me to grow.

## Company Profile

**National Informatics Centre (NIC)** under the Ministry of Electronics and Information Technology (MeitY) is the technology partner of the Government of India. It was established in 1976 with an objective to provide technology-driven solutions to Central and State Governments in various aspects of development. NIC has been instrumental in adopting and providing Information and Communication Technology (ICT) and eGovernance support to Central Government. Its state-of-art IT infrastructure includes Multi-Gigabit PAN India Network NICNET, National Knowledge Network, National Data Centres, National Cloud, Video Conferencing, Email and Messaging Services, Command and Control Centre, Multi-layered GIS based Platform, Domain Registration and Webcast. NIC has also developed several digital platforms for the socio-economic development of the country with 'One-Nation One-Platform' initiative to empower citizens digitally. Its services have created a perfect interaction of the Government with citizens, Government employees and businesses. With an objective of focused study of new technology, explore and experiment their use in governance, NIC has set-up Centre of Excellence (CoE) in Data Analytics, Artificial Intelligence, Blockchain and Application Security. With an advanced and robust infrastructure, digital platforms as well as on-ground services, NIC is connecting the citizens with the government through a holistic digital landscape and it ensures tech-enabled services that reach the unreached.

### Services provided by National Informatics Centre

- Implementation of National and State Level e-Governance Projects
- Products and Services
- Consultancy to the government departments
- Research and Development
- Capacity Building

## **Project: Goa Budget portal**

A state government budget is a state's year-long financial report explaining item-wise calculations of future revenue and expenditure. The budget explains the income and expenses of a state.

In Goa, at the beginning of every year, the government presents its budget in front of the Legislative Assembly, explaining an estimated receipt and expense for the upcoming financial year. The fiscal year starts from 1st April and concludes on 31st March of the next year.

### **Objective**

The objective is to redesign/add features to the existing Goa Budget website to better serve the needs of our current and potential online audiences by providing online information in a coherent and consistent manner.

### **Scope of Work**

The scope of work includes redesigning of the existing website that will be offered as a service to government entities and public. Solution must include the front-end user interface that is accessible through a web/mobile app. The solution will have the following features:

1. Easy to navigate.
2. Mobile – Responsive Web design
3. Login/Registration form for Admin/Users
4. User Suggestion Form – User will send in the suggestions related to upcoming Goa budget 2022-23.
5. Admin Dashboard – Admin will be able to view/download all the suggestions sent by the users.



6. Provide the data related to budget in an organised manner.

### Technologies used:

HTML, CSS, JS, PHP, AJAX, MYSQL

### Modules Completed:

Register

Login

Change Password

Forget Password

Suggestion

Update Suggestion

Admin

Suggestion Report

### Screenshots:

#### Module 1)Register

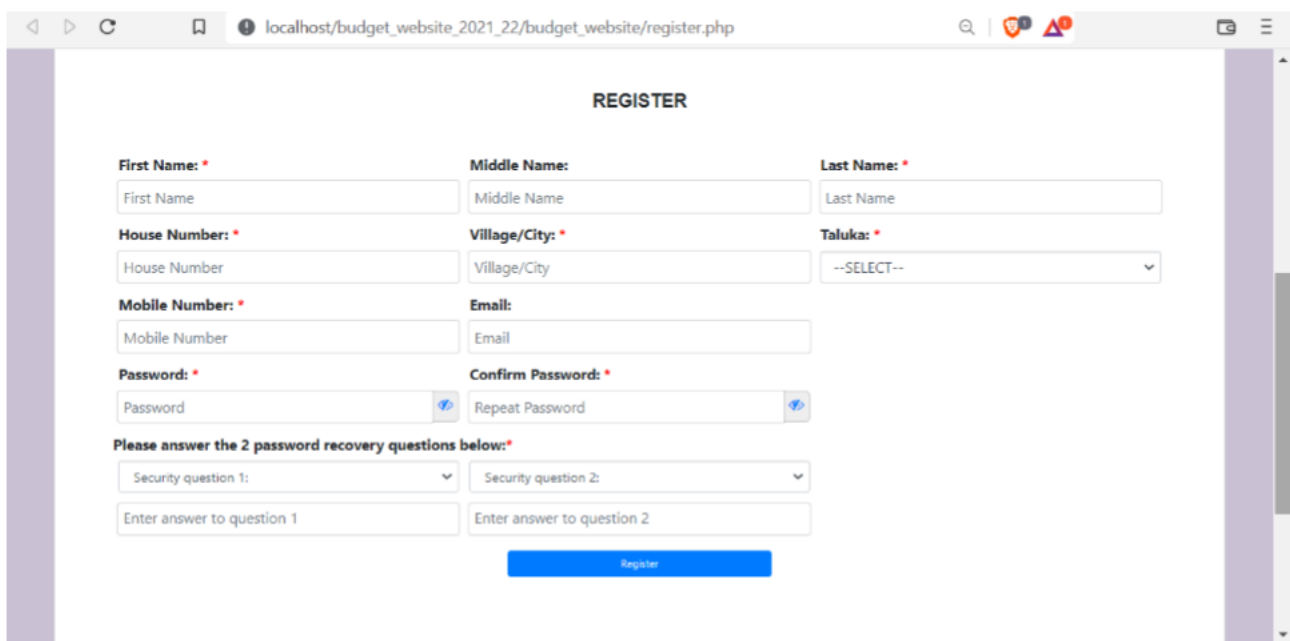


i) Register with otp. Enter details -> Click on Generate Otp -> if otp is valid then registration is successful.

Timer for otp. Otp is valid for 10 mins.

ii) Register form with validations

with security questions.



The screenshot shows a web browser window with the URL `localhost/budget_website_2021_22/budget_website/register.php`. The page title is "REGISTER". The form contains the following fields and controls:

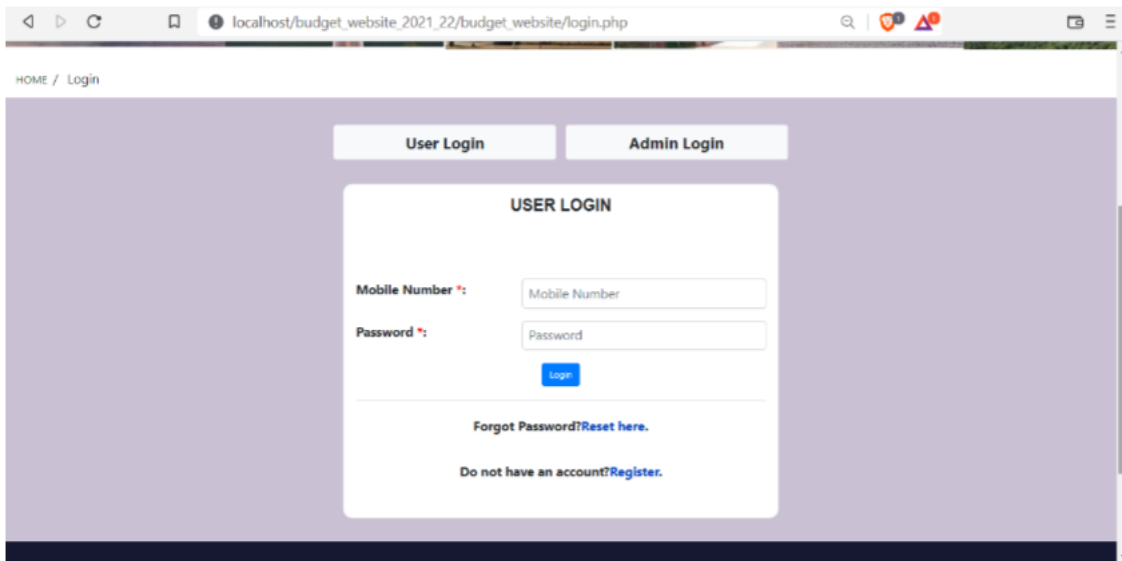
- First Name:** Text input field.
- Middle Name:** Text input field.
- Last Name:** Text input field.
- House Number:** Text input field.
- Village/City:** Text input field.
- Taluka:** Dropdown menu with "--SELECT--" as the selected option.
- Mobile Number:** Text input field.
- Email:** Text input field.
- Password:** Text input field with a toggle icon for password visibility.
- Confirm Password:** Text input field with a toggle icon for password visibility.
- Security questions:** Two dropdown menus labeled "Security question 1:" and "Security question 2:". Below each dropdown is a text input field for the answer, labeled "Enter answer to question 1" and "Enter answer to question 2" respectively.
- Register:** A blue button at the bottom center of the form.

Module 2) Login

i) login with password & mobile number

ii) login with OTP

iii) login for admin with username and password



### Module 3) Change password

Where in user knows old password and they want to change it.

### Module 4) Forget Password

In case they forget password they have to enter mobile number den security questions page will appear. If they answer correctly then send them to reset password page.

### Module 5) Suggestion

User should select demand , sector from dropdowns. All dropdown options are stored in the database table. So retrieve and show in dropdowns. If in dropdown option==others. Input box appears to enter their own sector. Suggestion in Textarea. Upload pdf option. File size upto 2mb

make table for suggestions entered by the user. As soon as user enters a suggestion. It appears in the table with an edit option.

### Module 6)Update Suggestion

User can edit their previous suggestion. If user makes changes , update it.

**SUGGESTION**

Sector: --SELECT-- Demand: --SELECT--

Suggestion: Enter suggestion here..

Upload Document: Choose File No file chosen Pdf only. Maximum file size is 2mb

Submit

Sr no.	Sector	Demand	Suggestion	Pdf	Edit
1	OTHERS	LEGISLATURE SECRETARIAT	Test Document first again	-	Edit
2	-	-	aa	-	Edit

## Module 7) Admin

create a dashboard for admin. Where in he can see suggestions

**PUBLIC SUGGESTIONS FOR BUDGET YEAR 2022-2023**

All - 29 View

Revenue Generation 6 View

Expenditure Improvement 6 View

Reform In Governance 5 View

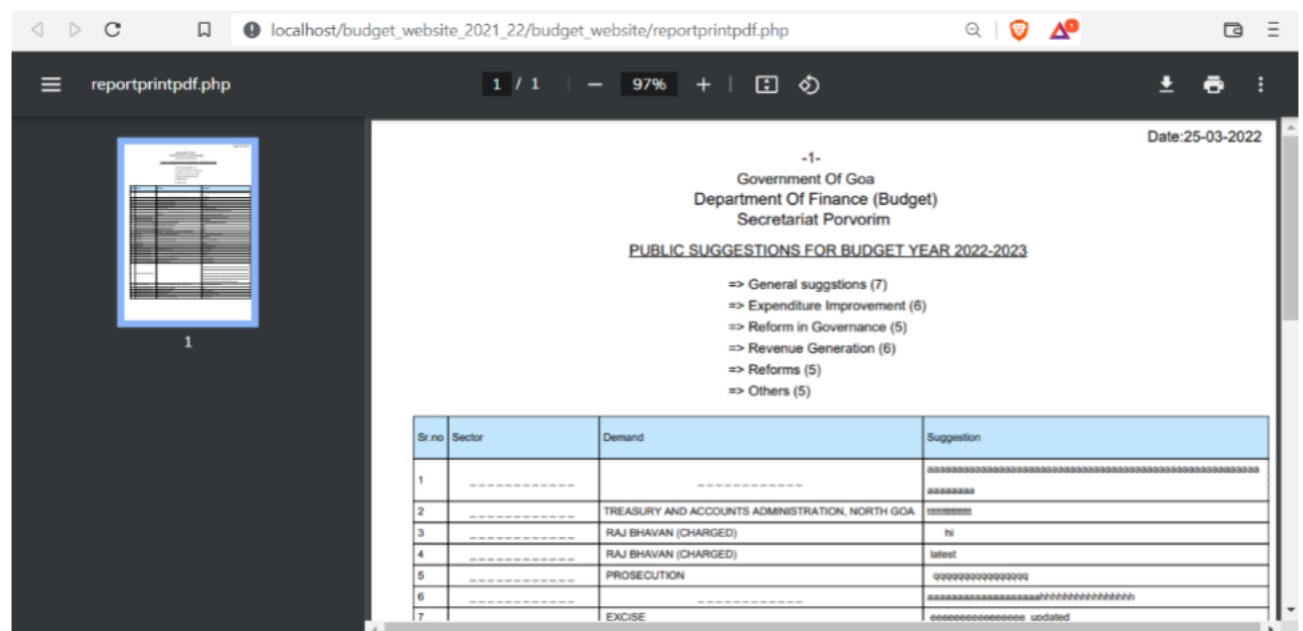
Others - 5 View

General - 7 View

Suggestions/ All Generate Report

No.	Sector	Demand	Suggestion	Pdf	Delete
1	-	-	aa	-	Delete
2	-	TREASURY AND ACCOUNTS ADMINISTRATION, NORTH GOA	tttttttttttt	-	Delete
3	-	RAJ BHAVAN (CHARGED)	hi	-	Delete
4	-	RAJ BHAVAN (CHARGED)	latest	-	Delete
5	-	PROSECUTION	qqqqqqqqqqqqqqqq	-	Delete
6	-	-	aaaaaaaaaaaaaaaaaaaaaaaaahhhhhhhhhhhhhhhhh	-	Delete

Make a report of suggestions given by public. General report and category wise.



## **Project: Goa Dayanand social security scheme**

Goa government has launched Dayanand Social Security Scheme 2022 for senior citizens, single women and disabled persons, The main objective of the DSSS scheme is to provide financial assistance to the most vulnerable sections of society.

The benefits of this scheme are given below:-

- Senior citizens, single women, adult disabled will be **eligible for financial assistances** at the rate of Rs.2000
- 2000/- per month under the scheme. (As per latest update, assistance to widows is now Rs 2500 per month).
- Disabled children with less than 90% disability will be entitled to financial assistance of Rs. 2500/- per month
- Disabled persons with disability of 90% and above will be eligible for financial assistance of Rs.3500 will be received under **Goa Dayanand Social Security Scheme**
- Rs.3500/- per month subject to the fulfillment of necessary documents and general conditions, provided that children with disabilities will continue to receive the above mentioned financial assistance after the age of 21 years.

## Screenshots



## Objective

The objective is to enable citizens to apply for this various schemes through the website to better serve the needs of citizens by providing online information in a coherent and consistent manner.

## Scope of Work

The scope of work includes designing of website that will be offered as a service to government entities and public. Solution must include the front-end user interface that is accessible through a web/mobile app. The solution will have the following features:

1. Easy to navigate.
2. Mobile – Responsive Web design
3. Login/Registration form for Admin/Users
4. Provide the data related to schemes in an organised manner.
5. Accept data and documents from user and store in database for further verification.

## Modules Completed:

## Authenticate

Authenticate user using aadhar card and birth date.

The screenshot shows the authentication interface of the Dayanand Social Security Scheme. The header includes the Government of Goa logo, the Directorate of Social Welfare, and the scheme name. A sidebar on the left contains links for Home, Apply Now, Downloads, and Login. The main content area is titled 'Enter the following details' and contains two input fields: 'Aadhar Number' and 'Date of Birth'. A 'proceed' button is located below the input fields.

Directorate of Social Welfare  
Government of Goa

Dayanand Social Security Scheme

Home

Apply Now

Downloads

Login

Enter the following details

Aadhar Number:

Date of Birth:

proceed

## Register

Register form with security questions to register on the portal to upload your details and documents.

The screenshot shows the registration interface of the Dayanand Social Security Scheme. The header is identical to the authentication page. The sidebar also includes 'Downloads' and 'Login'. The main content area has a tabbed interface with 'Personal Details' selected. The 'Personal Details' form includes fields for Category (Senior citizen, Single Woman, Disabled Persons), Surname, Middle Name, First Name, Gender (dropdown), Date of Birth (calendar), Date of birth in words, House Number, and Street/Building.

Directorate of Social Welfare  
Government of Goa

Dayanand Social Security Scheme

Downloads

Login

Personal Details Basic & family Details Bank Details Other Financial Assistances Documents Upload

Personal Details

Category: ☐ Senior citizen ☐ Single Woman ☐ Disabled Persons


Surname:  Middle Name:  First Name:

Gender:  Date of Birth:

Date of birth in words:

House Number:  Street/Building:





**Directorate of Social Welfare**  
 Government of Goa

**Dayanand Social Security Scheme**

Whether you or your Spouse is a beneficiary under Griha Adhar: \*\* ☐ Yes ☐ No

Whether you or your Spouse is a beneficiary under KalaSanman: \*\* ☐ Yes ☐ No

Whether you or any other member of your family is receiving financial assistance from any other source: \*\* ☒ Yes ☐ No


	S.No.	Name of family member	Age	Relationship	source of financial assistance	institution providing assistance
Delete	1			--SELECTED--		

Save

Reset

## Login

Login module is used by the admin the to view the details of applications receivedfor various schemes



**Directorate of Social Welfare**  
 Government of Goa

**Dayanand Social Security Scheme**

Home
   
 Apply Now
   
 Downloads
   
 Login

Login

Username: \*\*
 

Enter Username

Password: \*\*
 

Enter Password

SIGN IN

## Downloads

Downloads module provides users with download option for various documents to be referred for applying for this schemes.



**Directorate of Social Welfare**  
Government of Goa

**Dayanand Social Security Scheme**

Home

Apply Now

Downloads

Login

Download Documents

Document	Download
Annexure A - Self Declaration Of Occupation And Income	<a href="#">Download</a>
Annexure B - Residence Certificate	<a href="#">Download</a>
Annexure C - Self Declaration As A Single Women, Unmarried	<a href="#">Download</a>
Annexure D - Life Certificate	<a href="#">Download</a>
Annexure E - Acceptance Of Rs. 50 As Token Fee Under Dayanand Social Security Scheme	<a href="#">Download</a>
Annexure F - Application For Transfer Of Pension	<a href="#">Download</a>
Annexure G - Medical Certificate From The Chief Medical Officer/ Health Officers Of the Health Department For Senior Citizen	<a href="#">Download</a>
Annexure H - Application For Claim Of Medical Re-imbursement For Senior Citizen	<a href="#">Download</a>
Annexure I - Medical Certificate From The Chief Medical Officer/ Health Officers Of the Health Department For Disabled Person	<a href="#">Download</a>
Annexure J - Application For Claim Of Medical Re-imbursement For Disabled Person	<a href="#">Download</a>

## Document uploads

Document uploads module is used to upload documents as per the category selected and is required to avail the schemes



An attested copy of Bank Pass Book

Choose File

No file chosen

Disability certificate issued by Medical Board

Choose File

No file chosen

Certificate of legal guardianship in case of mentally retarded issued by competent authority

Choose File

No file chosen

I hereby declare:

☐ That I shall not accept any financial assistance in any other form, whatsoever, from any other source during the tenure of the financial assistance, if granted to me under the above scheme.

☐ That the statements made in this application are true to the best of my knowledge and belief and that no material / information has been concealed or withheld and no misrepresentation of facts made.

☐ That I shall be personally responsible for correctness of the information's and I shall be liable for penal action as deemed fit against me including filing criminal case.

Save

Submit

## **Tools and Technologies Used**

### **Bootstrap**

Bootstrap is a free and open-source CSS framework directed at responsive, mobilefirst front-end web development. It is a framework to help you design websites faster and easier. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels, etc. It also gives you support for JavaScript plugins. Advantages of Bootstrap are Easy to use, Responsive features, Mobile-first approach and Browser Compatibility.

### **Ajax**

Ajax is a set of web development techniques using many web technologies on the client side to create asynchronous web applications. With Ajax, web applications can send and retrieve data from a server asynchronously (in the background) without interfering with the display and behaviour of the existing page. By decoupling the data interchange layer from the presentation layer, Ajax allows web pages and, by extension, web applications, to change content dynamically without the need to reload the entire page.

### **XAMPP**

Xampp is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

## **MySQL**

MySQL is the most popular Open Source Relational SQL Database Management System. MySQL is one of the best RDBMS being used for developing various webbased software applications. It is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful databasepackages. MySQL uses a standard form of the well-known SQL data language. MySQL works on many operating systems and with many languages including Php, PERL, C, C++, JAVA etc.

## **PHP**

PHP is a recursive acronym for "PHP: Hypertext Preprocessor". The PHP Hypertext Preprocessor (PHP) is a programming language that allows web developers to create dynamic content that interacts with databases. PHP is basically used for developing web based software applications. It is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server. PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side.

## **ASP.NET**

ASP.NET is a web development platform, which provides a programming model, a comprehensive software infrastructure and various services required to build up robust web applications for PC, as well as mobile devices.

## **C#**

C# is a modern, general-purpose programming language that can be used to perform a wide range of tasks and objectives that span over a variety of professions. C# is primarily used on the Windows .NET framework, although it can be applied to an open source platform. This highly versatile programming language is an object-oriented programming language (OOP)

## **SQL Server Management Studio**

SQL Server Management Studio (SSMS) is an integrated environment for managing any SQL infrastructure, from SQL Server to Azure SQL Database. SSMS provides tools to configure, monitor, and administer instances of SQL Server and databases.

## **SQL SERVER**

SQL Server is a relational database management system, or RDBMS, developed and marketed by Microsoft. Similar to other RDBMS software, SQL Server is built on top of [SQL](#), a standard programming language for interacting with relational databases.

My reflections/ experiences of internship

My Internship at NIC porvorim has been a nice and growing experience. Being in industry and working on live projects is not something one learns but experiences. I was able to get better understanding of how the industry works. However, I still have a long way to go in learning more things. Overall, I found the internship experience to be positive, and I'm sure I will be able to use the skills I learned in my career later.