

# NETHSARA LIYANAGE

## PROJECTS AND THEIR GITHUB REPOSITORIES LINKS

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### 1. Hotel Management System - RockFort Unawatuna Hotel

A web application that is being created to a real client, a hotel called “RockFort Unawatuna”, which is a leading hotel in down south, Sri Lanka. This project was for 2<sup>nd</sup> year 2<sup>nd</sup> semester module in the University. In here we used,

- React JS for the front-end development
- Python – Django web framework for the back-end development
- Python – Django Rest API
- JavaScript
- HTML5
- CSS
- jQuery
- AJAX

UI frameworks,

- Ant design
- Material UI
- React Bootstrap

Version Control,

- Git/ GitHub

Concepts and architectures followed,

- OOP Concept
- MVT Architecture

GitHub Repository Links:

- Front-End: <https://github.com/nethsaraLiyanaage/Hotel-Management-System-Frontend>
- Back-End : <https://github.com/nethsaraLiyanaage/Hotel-Management-System--Backend>

## 2. Conference Management Tool

A web-based application developed on behalf of the university curriculum in the 3<sup>rd</sup> year 1<sup>st</sup> semester under a module called “Application Frameworks”. This web application is coded using,

- React JS for the front-end development
- Node JS framework for the back-end development
- Node JS Rest API
- JavaScript
- HTML5
- CSS
- AJAX

Version Control,

- Git/ GitHub

Concepts and architectures followed,

- OOP Concept
- MVT Architecture

GitHub Repository Links:

- Front-End: <https://github.com/nethsaraLiyanage/ICAF-frontend>
- Back-End : <https://github.com/nethsaraLiyanage/ICAF-backend>

## 3. Collaborative shopping platform – REST API | WSO2-ESP

A web-based application developed on behalf of the university curriculum in the 3<sup>rd</sup> year 1<sup>st</sup> semester under a module called “Distributed Systems”. This web application is coded using,

- React JS for the front-end development
- Node JS framework for the back-end development
- JavaScript
- HTML5
- CSS
- React Bootstrap

To integrate services

- WSO2 EI (Enterprise Integration – ESB)

Version Control,

- Git/ GitHub

Concepts and architectures followed,

- OOP Concept
- MVT Architecture

GitHub Repository Link : <https://github.com/nethsaraLiyanage/WSO2-ESB>

#### 4. Patient Management System

A web-based application developed on behalf of the university curriculum in the 3<sup>rd</sup> year 2<sup>nd</sup> semester under a module called “Software Project Management”. This web application is implemented using,

- React JS for the front-end development
- Node JS framework for the back-end development
- Node JS Rest API
- JavaScript
- HTML5
- CSS
- AJAX
- Mongo DB for Backend

Version Control,

- Git/ GitHub
- Azure DevOps for Sprint planning

Concepts and architectures followed,

- OOP Concepts

GitHub Repository Links:

- Front-End: [https://github.com/nethsaraLiyanage/Patient\\_Management\\_System-Frontend](https://github.com/nethsaraLiyanage/Patient_Management_System-Frontend)
- Back-End : [https://github.com/nethsaraLiyanage/Patient\\_Management\\_System-Backend](https://github.com/nethsaraLiyanage/Patient_Management_System-Backend)

#### 5. Procurement Management System

A web-based application developed on behalf of the university curriculum in the 3<sup>rd</sup> year 2<sup>nd</sup> semester under a module called “Case Studies in Software Engineering”. This web application is implemented using,

- React JS for the front-end development
- Node JS framework for the back-end development
- Node JS Rest API
- JavaScript
- HTML5
- CSS
- AJAX
- MS SQL for Backend
- Sequelize

Version Control,

- Git/ GitHub
- Azure DevOps

Concepts and architectures followed,

- OOP Concepts
- MVT Architecture

**\*\* We have designed and Mobile application for this same application for some stakeholders. The Mobile application was developed by using Flutter.**

GitHub Repository Link: <https://github.com/nethsaraLiyanage/CSSE-Project>

## 6. Online Software Installation and Update System

A web-based application developed on behalf of the university curriculum in the 1<sup>st</sup> year 2<sup>nd</sup> semester. This web application is coded using,

- HTML5
- CSS3
- PHP for Backend
- Vanilla JavaScript

GitHub Repository Link: <https://github.com/nethsaraLiyanage/onlineSchoolInformationMangementSystem>

## 7. Hotel Package Reservation Virtual Assistant – OSGI

A JAVA based application created as a module assignment in the university, 3<sup>rd</sup> year 1<sup>st</sup> semester. The technologies used in this web application are,

- JAVA as the main language
- OSGI framework

Version Control,

- Git/ GitHub

GitHub Repository Link: [https://github.com/nethsaraLiyanage/OSGI\\_HotelPackageReservationBot](https://github.com/nethsaraLiyanage/OSGI_HotelPackageReservationBot)

## 8. Online School Information Management System

A web-based application created as a module assignment in the university, 2<sup>nd</sup> year 1<sup>st</sup> semester. The technologies used in this web application are,

- HTML5
- CSS3 / SCSS
- Vanilla JavaScript
- JAVA – JSP SERVELETS for backend

Concepts and architectures followed,

- OOP Concept
- MVC Architecture

GitHub Repository Link: <https://github.com/nethsaraLiyanage/onlineSchoolInformationMangementSystem>

## 9. “CALORIE COUNTER” – Android Application

This project is created for the module “Mobile Application Development” in the university curriculum. This is a group assignment and it is mainly focused on the deployment of real application with high customer satisfaction and portability. In here we used,

- JAVA as the main language
- Kotlin
- Google APIs
- Material UI
- Git/ GitHub for version control

Concepts and architectures followed,

- OOP Concept
- MVC Architecture

GitHub Repository Link: <https://github.com/nethsaraLiyanage/Calories-MAD>

## **10. A developed Mobile app for PIZZA HUT SL mobile application**

A web-based application developed on behalf of the university curriculum in the 3<sup>rd</sup> year 2<sup>nd</sup> semester under a module called “User Experience Engineering”. This web application is implemented using,

- Flutter
- Dart
- Mongo DB for database

Version Control,

- Git/ GitHub

Concepts and architectures followed,

- OOP Concept

GitHub Repository Link: <https://github.com/nethsaraLiyanage/UEE-Pizza-hut-SL>

## **11. Farm Automation System - Fazenda**

A web-based application developed on behalf of the SLT Digital lab. This system is implemented using,

- JavaScript
- PHP
- MYSQL

Version Control,

- Git/ GitHub

Concepts and architectures followed,

- OOP Concept