SRI RAMACHANDRA
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai
SRI RAMACHANDRA FACULTY OF ENGINEERING AND TECHNOLOGY

PATIENT CARE – A PATIENT TRACKING SYSTEM

INT 200 – INTERNSHIP 1 PROJECT REPORT

Submitted by

SUDHARSHINI R – E0322019

In partial fulfilment for the award of the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

(Artificial Intelligence & Data Analytics)

Sri Ramachandra Faculty of Engineering and Technology

Sri Ramachandra Institute of Higher Education and Research, Porur, Chennai - 600116

JULY 2023

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BONAFIDE CERTIFICATE

Certified that this project report "**A PATIENT TRACKING SYSTEM"** is the bonafide record of work done by **"SUDHARSHINI R – E0322019"** who carried out the internship work under my supervision.

Signature of the Supervisor

Dr. Ashokkumar.P

Assistant Professor,

Signature of Programme Coordinator

Dr. Uma Satya Ranjan

Professor and Head,

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Department of Artificial Intelligence and Machine Learning

Sri Ramachandra Faculty of Engineering and Technology,

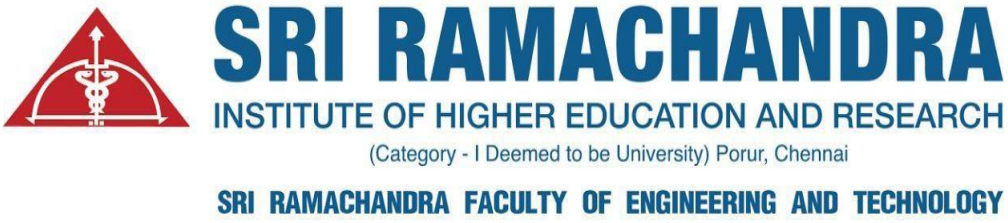
SRIHER, Porur, Chennai-600 116.

Department of Artificial Intelligence and Data Analytics

Sri Ramachandra Faculty of Engineering and Technology,

SRIHER, Porur, Chennai-600 116.

Evaluation Date:



ACKNOWLEDGEMENT

I express my sincere gratitude to our Programme Coordinator **Dr. Uma Satya Ranjan** for their support and for providing the required facilities for carrying out this study.

I wish to thank my faculty supervisor(s), **Dr. Ashokkumar.P ,**Department of Artificial Intelligence and Machine Learning, Sri Ramachandra faculty of Engineering and Technology for extending help and encouragement throughout the project. Without his/her continuous guidance and persistent help, this project would not have been a success for me.

I am grateful to all the members of Sri Ramachandra Faculty of Engineering and Technology, my beloved parents and friends for extending the support, who helped us to overcome obstacles in the study.

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ABSTRACT

The Dental Camp Case Sheet is a platform designed to streamline the efficient management of patient information for dental camps. It offers a user-friendly registration form that captures essential details such as patient details, medical history, and contact information. The website ensures data privacy and security while complying with applicable regulations. The website also enables generating reports and exporting patient data for analysis or record-keeping purposes. Through its accessibility and responsive design, the website ensures a seamless user experience across various devices. The Dental Camp Case Sheet simplifies and enhances the organization and record-keeping of dental camp participants, empowering organizers to deliver efficient and effective oral health services to the community.

LIST OF FIGURES

LIST OF TABLES

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CHAPTER 1

INTRODUCTION

The Dental Camp Case Sheet Website is a comprehensive platform designed to streamline the documentation and management of patient information during dental camps. This report provides an overview of the features, benefits, and key findings of the Dental Camp Case Sheet Website, highlighting its significance in improving dental care during camp settings.

1.1 PURPOSE

The purpose of a dental camp case sheet website is to streamline and improve the documentation, organization, and management of patient information during dental camps. It serves as a centralized platform where dental professionals can record and access essential patient data, ensuring efficient and effective dental care delivery.

1.2. OBJECTIVE

The objective of a dental camp case sheet website is to provide an efficient and user-friendly platform for dental professionals to document, manage, and access patient information during dental camps.

1.2.1

Efficient Data Capture

The website aims to provide a user-friendly interface for dental professionals to efficiently record patient data during dental camps. It should facilitate easy and accurate data entry of essential information such as demographics, medical history, dental conditions, treatments provided, and follow-up recommendations.

1.2.2 Organization and Accessibility

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The website should centralize patient case sheets in a digital format, improving the organization and accessibility of patient records. Dental professionals should be able to quickly and easily retrieve case sheets during dental camps, enabling efficient treatment planning and decision-making.

1.2.3 Continuity of Care

The website should support the continuity of care for patients attending multiple dental camps. It should enable dental professionals to access and review previous case sheets, including treatment history and follow-up recommendations. This ensures accurate diagnoses, appropriate treatment plans, and seamless care across multiple camp sessions.

1.2.4 Customization Options

The website should provide customization options to accommodate the specific requirements and preferences of dental professionals. It should allow for the inclusion of personalized data fields and workflows, ensuring that case sheets align with individual needs and practices.

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CHAPTER 2

LITERATURE SURVEY

S.NO	TITLE	AUTHOR NAME	METHODOLOGY
1.	**Study:** Implementation of an Electronic Dental Record System for Mobile Dental Clinics in Rural Settings	Smith (2017)	• This study explores the implementation of an electronic dental record system for mobile dental clinics, including dental camps in rural areas. • It highlights the benefits of using electronic records, such as improved data accuracy, efficient data retrieval, and enhanced patient care. • The study emphasizes the importance of customization and user-friendliness of the system to meet the specific needs of dental camps.
2.	**Article:** Web-Based Electronic Health Records for Dental School Clinics	Bahl (2014)	• The article discusses the implementation of web-based electronic health records (EHR) in dental school clinics. • It highlights the advantages of web-based systems, such as improved access to patient data, efficient data entry, and streamlined case sheet management. • The study emphasizes the need for user training and ongoing technical support to ensure successful adoption and utilization of the EHR system.

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3.	**Study:** Development of a Web-Based Dental Record System for Mobile Dental Services in Underserved Communities	Chen (2016)	• This study focuses on the development of a web-based dental record system specifically for mobile dental services, including dental camps. • It discusses the features and functionalities required for effective case sheet management, data security measures, and data synchronization in remote locations. • The study emphasizes the importance of user-centred design, stakeholder engagement, and iterative development processes in implementing the system.
4.	**Article:** A Web-Based Dental Record System for Remote Dental Diagnosis and Treatment Planning	Li (2018)	• The article presents a web-based dental record system designed for remote diagnosis and treatment planning. • It discusses the integration of digital imaging, case sheet management, and tele-dentistry capabilities to improve dental care delivery in remote areas. • The study highlights the potential of web-based systems in facilitating collaborative care and enabling remote consultations between dental professionals.
5.	**Study:** Evaluation of a Web-Based Dental Record System in a School Dental Service	Zhang (2015)	• This study evaluates the implementation and usability of a web-based dental record system in a school dental service setting.

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			• It assesses the impact of the system on data accuracy, efficiency, and user satisfaction. • The study identifies improved case sheet management, streamlined workflows, and enhanced communication as key benefits of the web-based system.

CHAPTER 3

PROPOSED METHODOLOGY

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HTML

Hyper Text Markup Language forms the backbone of the webpage. It provides the structure and organisation. It makes the site compatible across various devices. It uses tags to structure content and define its presentation. HTML abstracts the complexity of web development by providing a simple and intuitive way to create and display information on the internet.

CSS

Cascading Style Sheets is a fundamental technology used to style and format web documents. It allows developers to control the appearance of HTML elements, including their layout, colour, font, and other visual properties. CSS offers a wide range of selectors and properties, empowering developers to create visually appealing and responsive websites. It plays a crucial role in achieving a consistent and engaging user experience on the web.

Java Script

JavaScript is a versatile programming language used primarily for enhancing interactivity on websites. It enables developers to create dynamic and interactive web pages by manipulating the Document Object Model and responding to user actions. With JavaScript, one can add validation to forms, create interactive menus, implement animations, and perform real-time updates without reloading the page. JavaScript's flexibility and wide adoption make it an essential tool for modern web development.

Visual Studio Code

Visual Studio Code is a popular source code editor developed by Microsoft. It offers a lightweight yet powerful environment for coding in various programming languages. With

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features like IntelliSense, debugging, extensions, and Git integration, VS Code provides a seamless and customizable coding experience, favoured by developers worldwide.

SQL

SQL (Structured Query Language) is a programming language used for managing and manipulating relational databases. It allows you to interact with a database to perform various operations, such as retrieving data, modifying data, creating database structures, and querying information.

CHAPTER 4

Imports System.IO

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```
Imports iTextSharp.text

Imports iTextSharp.text.pdf

Imports MySql.Data.MySqlClient


Public Class WebForm1

    Inherits System.Web.UI.Page

  Public Sub change(sender As Object, e As EventArgs) Handles bb1.Click,

        bb2.Click, bb3.Click, bb4.Click, bb5.Click, bb6.Click, bb7.Click, bb8.Click,
bb9.Click, bb10.Click,

        bb11.Click, bb12.Click, bb13.Click, bb14.Click, bb15.Click, bb16.Click, bw1.Click,

        bw2.Click, bw3.Click, bw4.Click, bw5.Click, bw6.Click, bw7.Click, bw8.Click,
bw9.Click, bw10.Click,

        bw11.Click, bw12.Click, bw13.Click, bw14.Click, bw15.Click, bw16.Click, ab1.Click,

        ab2.Click, ab3.Click, ab4.Click, ab5.Click, ab6.Click, ab7.Click, ab8.Click, ab9.Click,
ab10.Click,

         cb1.Click,

        cb2.Click, cb3.Click, cb4.Click, cb5.Click, cb6.Click, cb7.Click, cb8.Click, cb9.Click,
cb10.Click

        Dim but As Button = sender

        If but.Attributes("style") = "background-color: white" Then

            but.Attributes("style") = "background-color: black"

            but.ForeColor = Drawing.Color.White

ElseIf but.Attributes("style") = "background-color: black" Then
```


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```
            but.Attributes("style") = "background-color: red"
            but.ForeColor = Drawing.Color.White
        ElseIf but.Attributes("style") = "background-color: red" Then
            but.Attributes("style") = "background-color: green"
            but.ForeColor = Drawing.Color.White
        Else
            but.Attributes("style") = "background-color: white"
            but.ForeColor = Drawing.Color.Black
        End If
    End Sub
    Public Function getRadioName(r1 As RadioButton, r2 As RadioButton, r3 As
RadioButton) As String
        If r1.Checked Then
            Return r1.Text
        End If
        If r2.Checked Then
            Return r2.Text
        End If
        If r3.Checked Then
            Return r3.Text
        End If
        Return ""
    End Function
```


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```
Public Sub setCheckName(val As Integer, ByRef c As CheckBox)
    If val = 1 Then
        c.Checked = True
    Else
        c.Checked = False
    End If
End Sub
Public Sub setRadioName(val As String, ByRef r1 As RadioButton, ByRef r2 As RadioButton, ByRef r3 As RadioButton)
    r1.Checked = False
    r2.Checked = False
    r3.Checked = False
    If r1.Text.Equals(val) Then
        r1.Checked = True
    End If
    If r2.Text.Equals(val) Then
        r2.Checked = True
    End If
    If r3.Text.Equals(val) Then
        r3.Checked = True
    End If
End Sub
```


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```
Public Sub setRadioName(val As String, ByRef r1 As RadioButton, ByRef r2 As RadioButton)
    r1.Checked = False
    r2.Checked = False
If r1.Text.Equals(val) Then
    r1.Checked = True
    End If
    If r2.Text.Equals(val) Then
    r2.Checked = True
  Public Function getRadioName(r1 As RadioButton, r2 As RadioButton, r3 As RadioButton, r4 As RadioButton) As String
    If r1.Checked Then
    Return r1.Text
    End If
    If r2.Checked Then
    Return r2.Text
    End If
    If r3.Checked Then
    Return r3.Text
    End If
    If r4.Checked Then
    Return r4.Text
    End If
```


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```
        Return ""
    End Function

    Public Function getRadioName(r1 As RadioButton, r2 As RadioButton) As String
        If r1.Checked Then
            Return r1.Text
        End If
        If r2.Checked Then
            Return r2.Text
        End If
Return ""
    End Function
```


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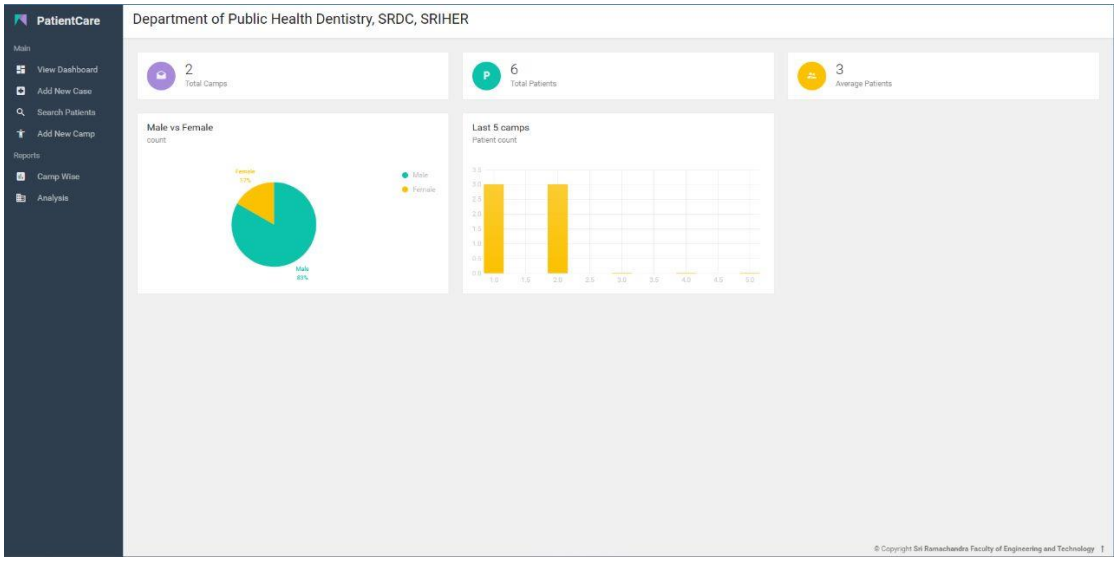
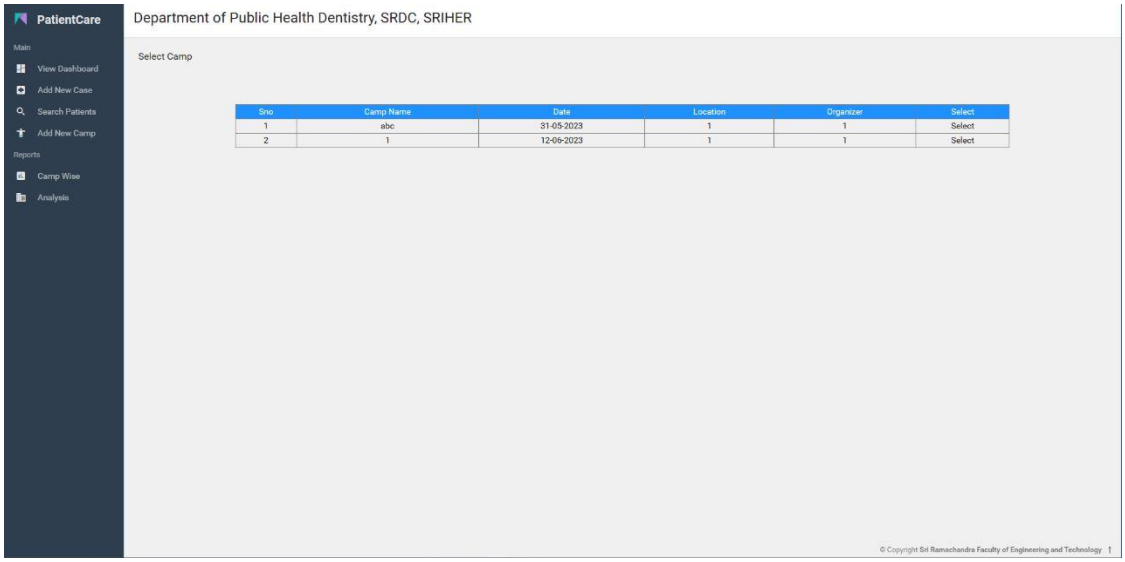
CHAPTER 5

RESULTS AND DISCUSSIONS

APPENDICES

APPENDIX-1: SCREENSHOTS





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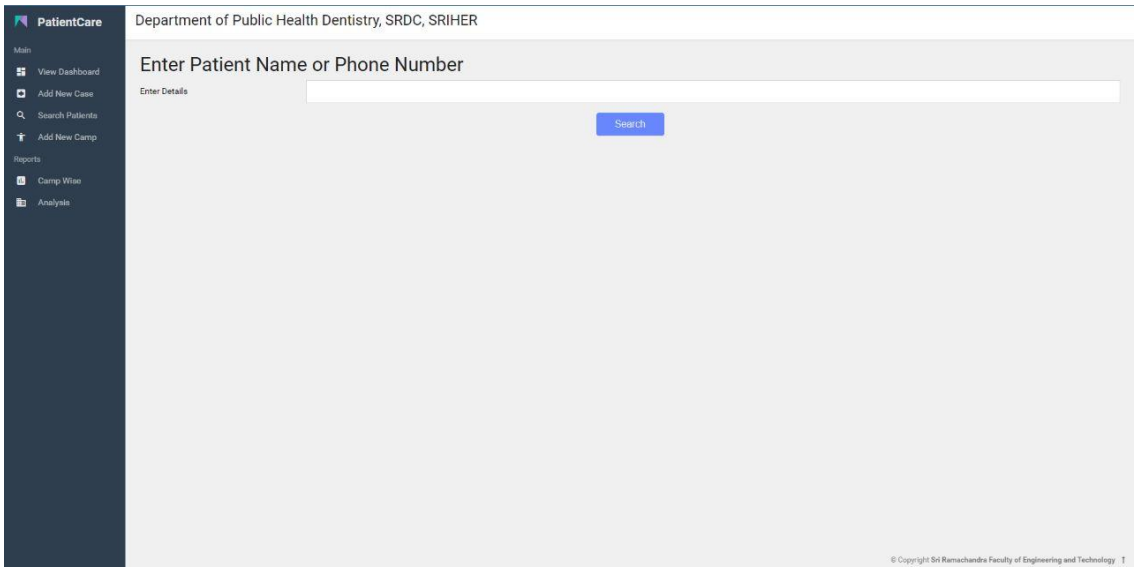
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Department of Public Health Dentistry, SRDC, SRIHER
Main
View Dashboard
Add New Case
Search Patients
Add New Camp
Reports
Camp Wise
Analysis
Enter Patient Name or Phone Number
Enter Details
Search
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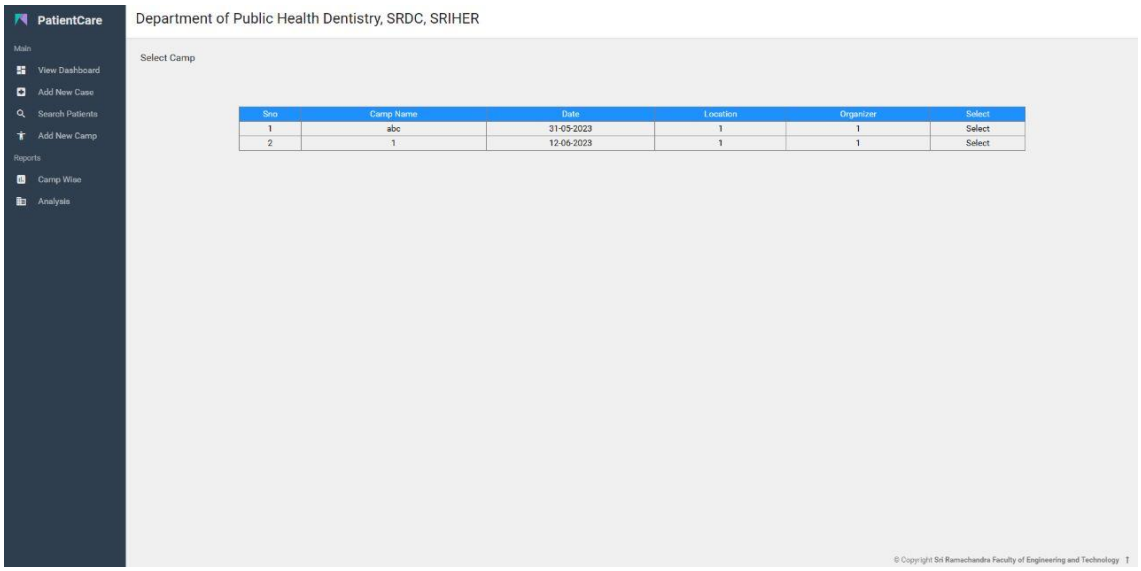
PatientCare
Department of Public Health Dentistry, SRDC, SRIHER
Main
View Dashboard
Add New Case
Search Patients
Add New Camp
Reports
Camp Wise
Analysis
Select Camp
Sno
Camp Name
Date
Location
Organizer
Select
1
abc
31-05-2023
1
1
Select
2
1
12-06-2023
1
1
Select
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PatientCare
Main
View Dashboard
Add New Case
Search Patients
Add New Camp
Reports
Camp Wise
Analysis
Department of Public Health Dentistry, SRDC, SRIHER
Analysis
Total 3
Scaling (1) 3
Restoration (2) 1
Extraction (3) 2
Denture (4) 2
Appliances (5) 2
Fluoride Application (6) 1
Biopsy (7) 3
Count
by each category
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
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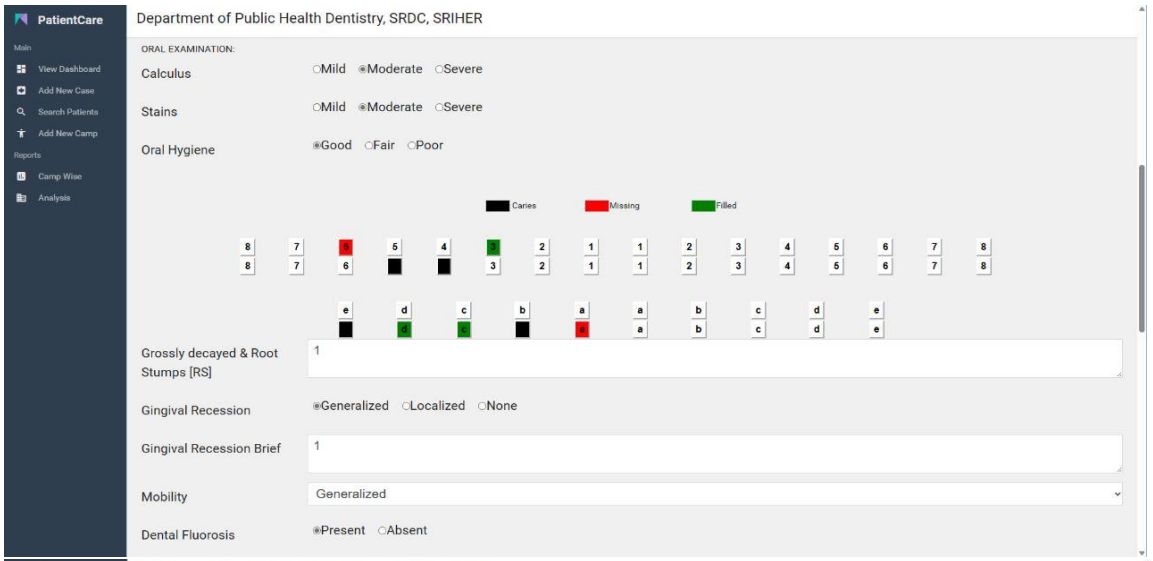
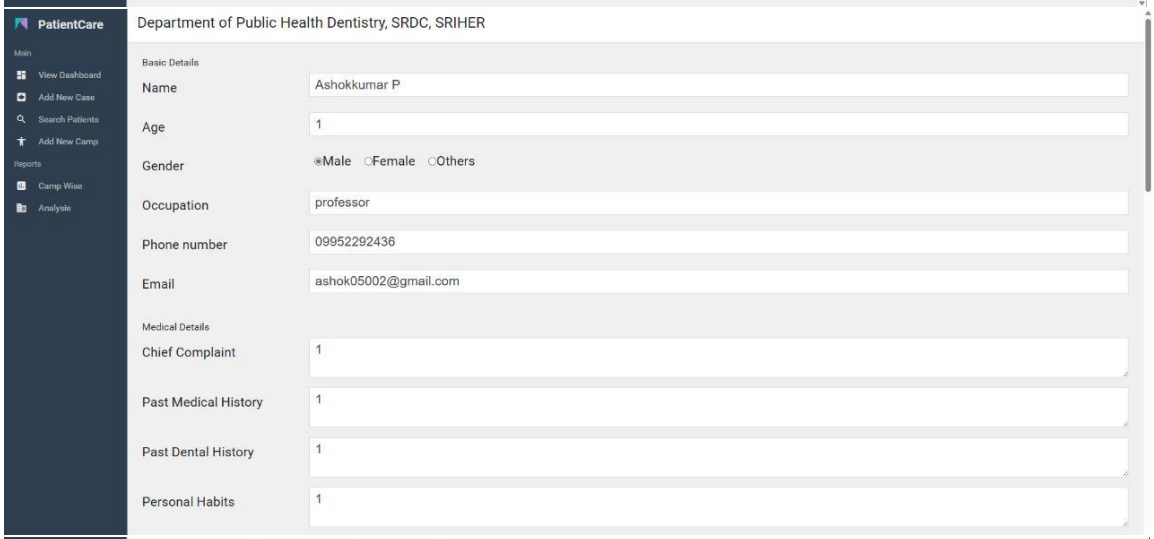

PatientCare
Main
View Dashboard
Add New Case
Search Patients
Add New Camp
Reports
Camp Wise
Analysis
Department of Public Health Dentistry, SRDC, SRIHER
ORAL EXAMINATION:
Calculus
Mild Moderate Severe
Stains
Mild Moderate Severe
Oral Hygiene
Good Fair Poor
Caries
Missing
Filled
Grossly decayed & Root Stumps [RS]
1
Gingival Recession
Generalized Localized None
Gingival Recession Brief
1
Mobility
Generalized
Dental Fluorosis
Present Absent


PatientCare
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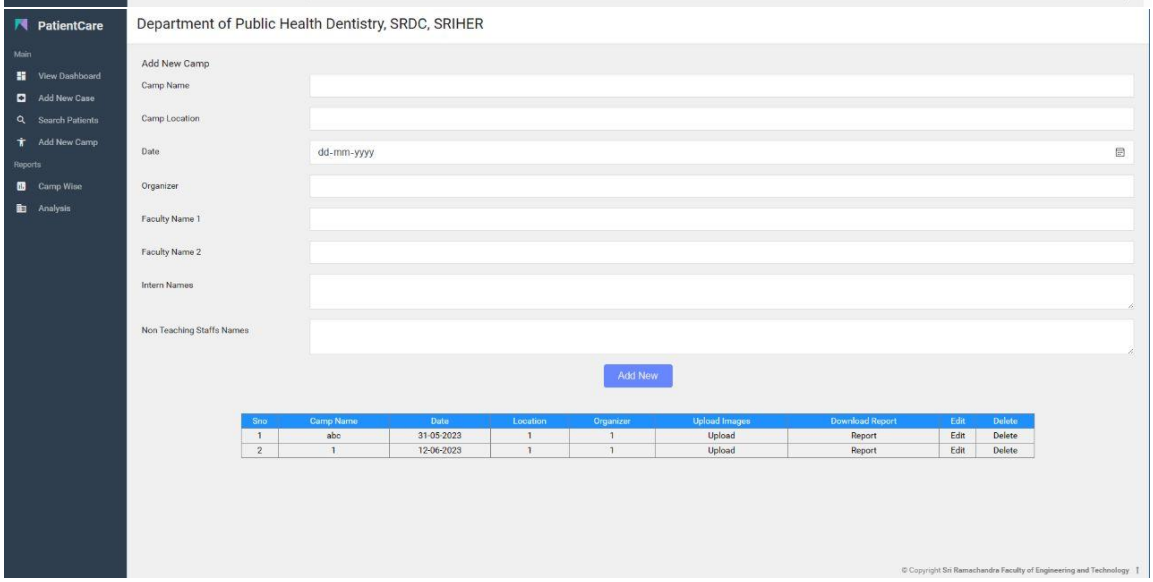
Add New Case
Search Patients
Add New Camp
Reports
Camp Wise
Analysis
Department of Public Health Dentistry, SRDC, SRIHER
Basic Details
Name
Ashokkumar P
Age
1
Gender
Male Female Others
Occupation
professor
Phone number
09952292436
Email
ashok05002@gmail.com
Medical Details
Chief Complaint
1
Past Medical History
1
Past Dental History
1
Personal Habits
1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View Dashboard
Add New Case
Search Patients
Add New Camp
Reports
Camp Wise
Analysis
Department of Public Health Dentistry, SRDC, SRIHER
Add New Camp
Camp Name
Camp Location
Date
dd-mm-yyyy
Organizer
Faculty Name 1
Faculty Name 2
Intern Names
Non Teaching Staffs Names
Add New
Sno
Camp Name
Date
Location
Organizer
Upload Images
Download Report
Edit
Delete
1
abc
31-05-2023
1
1
Upload
Report
Edit
Delete
2
1
12-06-2023
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Upload
Report
Edit
Delete
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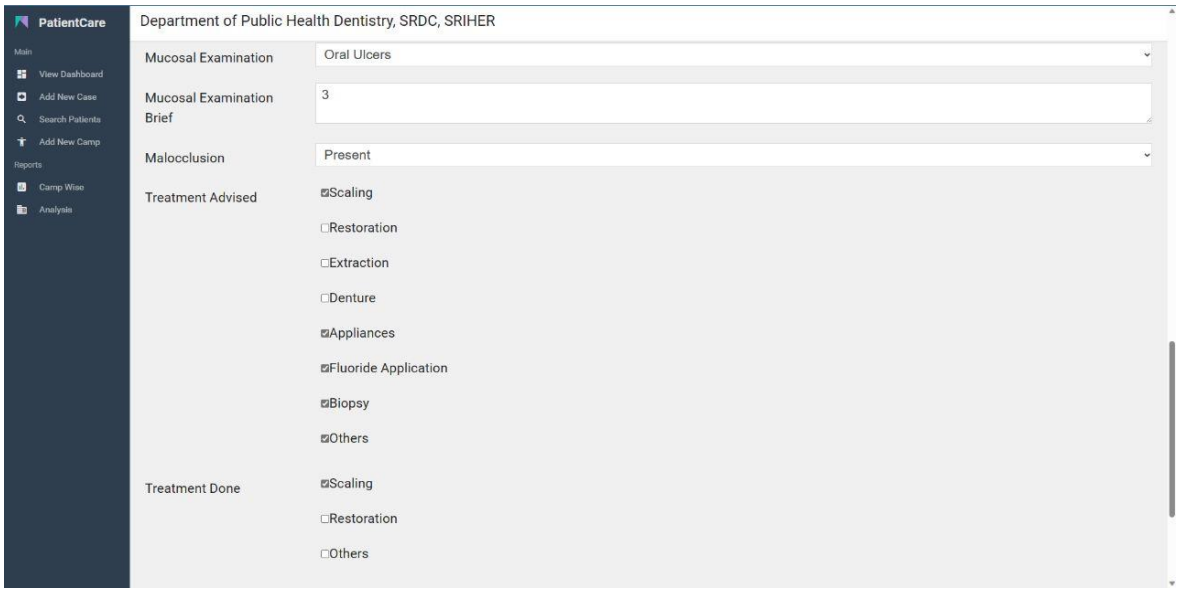
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Add New Camp
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Camp Wise
Analysis
Department of Public Health Dentistry, SRDC, SRIHER
Mucosal Examination
Oral Ulcers
Mucosal Examination Brief
3
Malocclusion
Present
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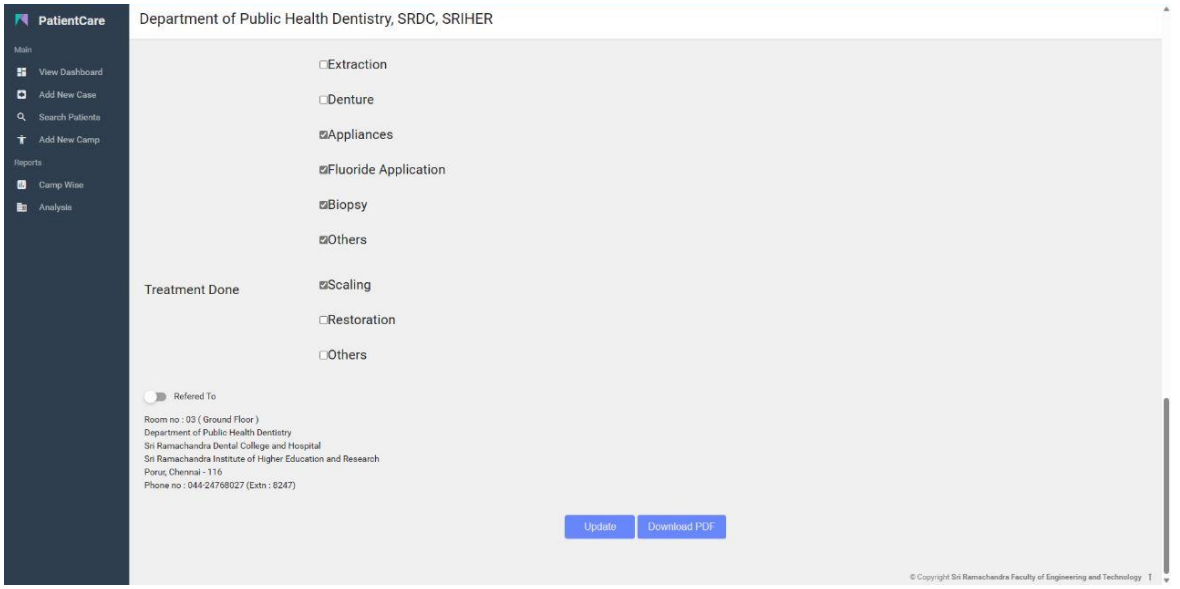
Restoration
Extraction
Denture
Appliances
Fluoride Application
Biopsy
Others
Treatment Done
Scaling
Restoration
Others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Camp Wise
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Department of Public Health Dentistry, SRDC, SRIHER
Extraction
Denture
Appliances
Fluoride Application
Biopsy
Others
Treatment Done
Scaling
Restoration
Others
Refered To
Room no : 03 (Ground Floor)
Department of Public Health Dentistry
Sri Ramachandra Dental College and Hospital
Sri Ramachandra Institute of Higher Education and Research
Porur, Chennai - 116
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REFERENCES

References:

1. iDentalSoft (2023) iDental Soft
2. Simplex Himes Simplex Himes
3. BestoSys (2023) BestoSys

WORKLOG

Day	Date	Task Done
Week 1	08/05/2023-14/05/2023	Studied about the requirements
Week 2	15/05/2023-21/05/2023	Web page design for patients
Week 3	22/05/2023-28/05/2023	Web page design for reports
Week 4	29/05/2023-04/06/2023	implementation
Week 5	05/06/2023-11/06/2023	Database design
Week 6	12/06/2023-18/06/2023	Database integration
Week 7	19/06/2023-25/06/2023	Combining all modules
Week 8	26/06/2023-02/07/2023	Testing
Week 9	03/07/2023-09/07/2023	Bug correction

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