SAVITRIBAI PHULE PUNE UNIVERSITY A SDL MINI PROJECT REPORT ON

DAILY VISIT REPORT APPLICATION

SUBMITTED TOWARDS THE

PARTIAL FULFILLMENT OF THE REQUIREMENTS OF

BACHELOR OF ENGINEERING (Computer

Engineering)

BY

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Abstract

(Abstract Should not exceed more than one page.)

Daily Visit Report is an application to record all the visit reports by the employee which will be reported directly to the unit head. This app is a must-have for anyone working in the field and on

sites. Easily log in hours each employee has spent to complete a task will get recorded through this application.

This app will also have the GPS based location service that will help to managers to get the live location of the employee working on the different field or sites.

(Neha)

Acknowledgments

It gives us great pleasure in presenting the preliminary project report on

‘Daily Visit Report Application’.

I would like to take this opportunity to thank my internal guide **Prof. Ketaki Bhoyar** for giving me all the help and guidance I needed. I am really grateful to them for their kind support. Their valuable suggestions were very helpful.

I am also grateful to Prof. P.P. Shevtekar, Head of Computer Engineer- ing Department, Dr. D. Y. Patil Institute of Engineering, Management

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Chapter 1

Synopsis

1.1 Pro ject Title

Daily Visit Report Application

1.2 Pro ject Option

Internal project

1.3 Internal Guide

Prof. Ketaki Bhoyar

1.4 Problem Statement

Implement a location based Daily Visit Report Application with additional

features for convenience.

1.5 Abstract

Daily Visit Report is an application to record all the visit reports by the employee which will be

reported directly to the unit head. This app is a must-have for anyone working in the field and on

sites. Easily log in hours each employee has spent to complete a task will get recorded through this application.

This app will also have the GPS based location service that will help to managers to get the live

location of the employee working on the different field or sites.

1.6 Goals and Objectives(Darshan)

Chapter 2

Technical Keywords

2.1 Area of Pro ject

Business

2.2 Technical Keywords

Chapter 3

Introduction

3.1 Project Idea

3.2 Motivation of the Project

Chapter 4

Problem Definition and scope

4.1 Problem Statement:

Daily Visit Report Application

4.1.1 Goals and objectives:

4.1.2 Statement of scope

Business andMarketing

4.2 Applications:

For marketing employees and companies so they can monitor day-to-day activities/visits of their sales team.

The tracker is location based which will use GPS.

Tracking becomes so easy for the employers so that they can focus on right things to help their business growth.

Expenses, billings and total work hours are also monitored by the DVR system.

4.3 Hardware Resources Required

|  |  |  |
| --- | --- | --- |
| Sr. No | Parameter | Minimum Requirement |
| 1 | Processor | Quad-core or above |
| 2 | RAM | 1 Gb or above |
| 3 | ROM | 4 Gb or above |
|  |  |  |

Table 4.1: Hardware Requirements

4.4 Software Resources Required

Tool : Android Studio Platform: Android

Operating System : Android 4.4 (API level 19) or above

Programming Languages: Java, XML

Database: Firebase

Chapter 5

Software requirement specification

5.1 Data Model and Description

5.1.1 Data Description

\*Below data is given for your reference\*

1. MYSQL Data:

MYSQL stands for My Strucured Query Language. It is a database which stores the details of the placement management system.

Component of MYSQL:

1. Database : Stores Tables.

2. Tables : Stores Attributes

3. Attributes : Attributes are columns which store data

4. Record : Records are horizontal entity which store data corresponding to all attributes in the table.

(Neha)

5.2 Functional Model and Description

(Darshan)

5.2.1 ER Diagram: (Harshi)

Chapter 6

Project Implementation

6.1 Introduction

Daily Visit Report is an android application used to record all the visit reports by the employee which will be reported directly to the unit head. This application is fully designed in Java and layout is designed using the XML. Firebase is used in the backend to store the information and data related to the application.

6.2 Tools and Technologies Used

6.2.1 Tool:

Tool : Android Studio Platform: Android

Operating System : Android 4.4 (API level 19) or above

Programming Languages: Java, XML

Database: Firebase

6.2.2 Technology:

**Java**:

Java is a **programming language** and a **platform**. Java is a high level, robust, object-oriented and secure programming language.

**XML:**

XML stands for Extensible Markup Language. XML is a markup language much like HTML used to describe data. In Android we use xml for designing our layouts because xml is lightweight language so it doesn't make our layout heavy.

Chapter 7

Software Testing

\*Below data is given for your reference\*

7.1 Type of Testing Used

7.1.1 Unit testing:

It is a software testing method by which individual units of source code, are tested to determine whether they are fit for use. It provides a sort of living documentation of the system. It is performed by using the White Box testing method. It is performed by software developer. It increase the confidence of changing or maintaining code.

It ensure that all statements in the unit have been executed at least once. It tests data structures ( like stacks, queues) that represent rela- tionships among individual data elements.

• Function:

• Module Interface: Ensure that information flows properly into and out of module.

• Local data structures: Ensure that data stored temporarily maintain its integrity during all steps in an algorithm execution.

• Driver and Stub:

Driver is a module that takes input from test case, passes this input to the unit to be tested and prints the output produced. Stub is a module that works as a unit referenced by the unit being tested. It uses the interface of the subordinate unit, does minimum data manipulation, and returns control back to the unit being tested.

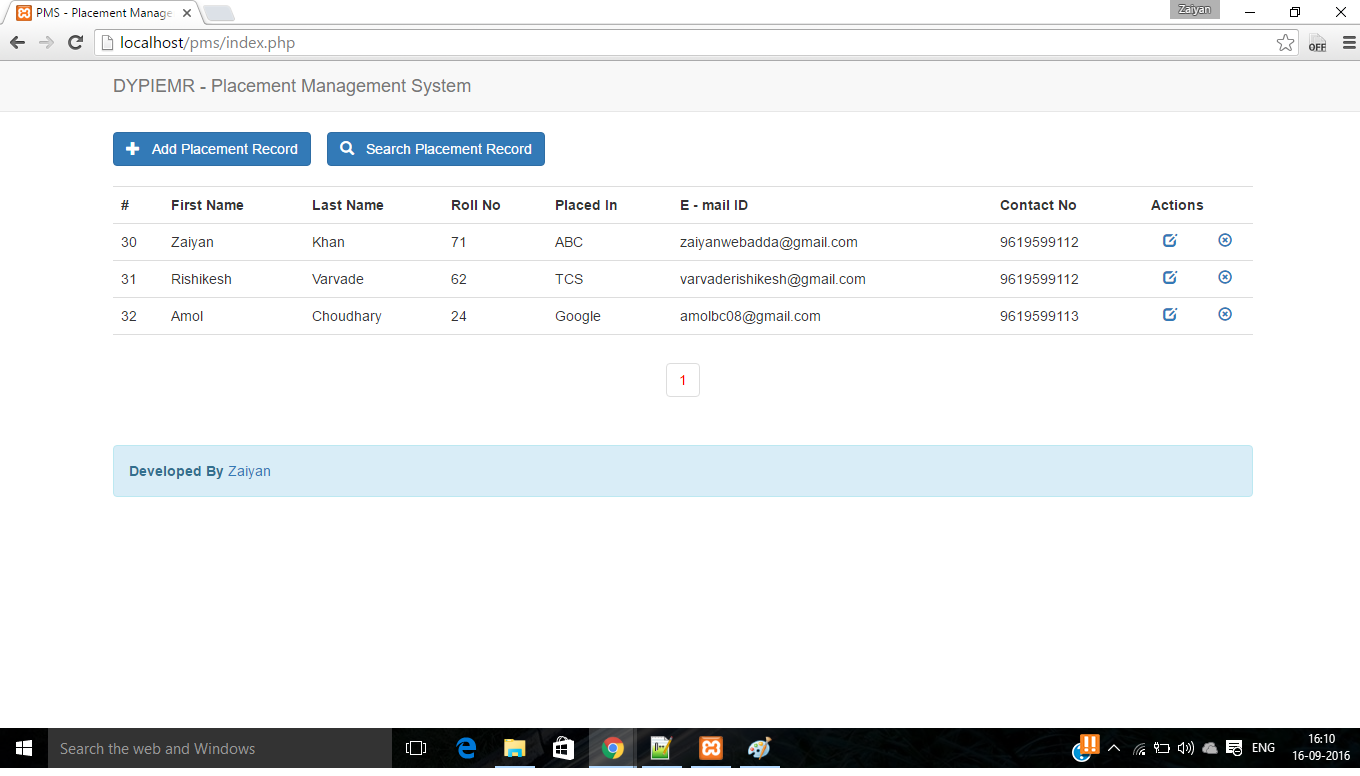


Figure 7.1: unit test

7.1.2 Integration testing:

It tests integration or interface between components, interactions to different part of the system. It is to verify the functional, performance, and reliability between the modules that are integrated.

Defined as a systematic technique for constructing the software archi- tecture At the same time integration is occurring, conduct tests to uncover errors associated with interfaces.

Objective is to take unit tested modules and build a program structure based on the prescribed design.

It ensures that all modules work together properly and transfer accu- rate data across their interfaces.

It is performed with an intention to uncover errors that lie in the in- terfaces among the integrated components.

It tests those components that are new or have been modified or af- fected due to a change.

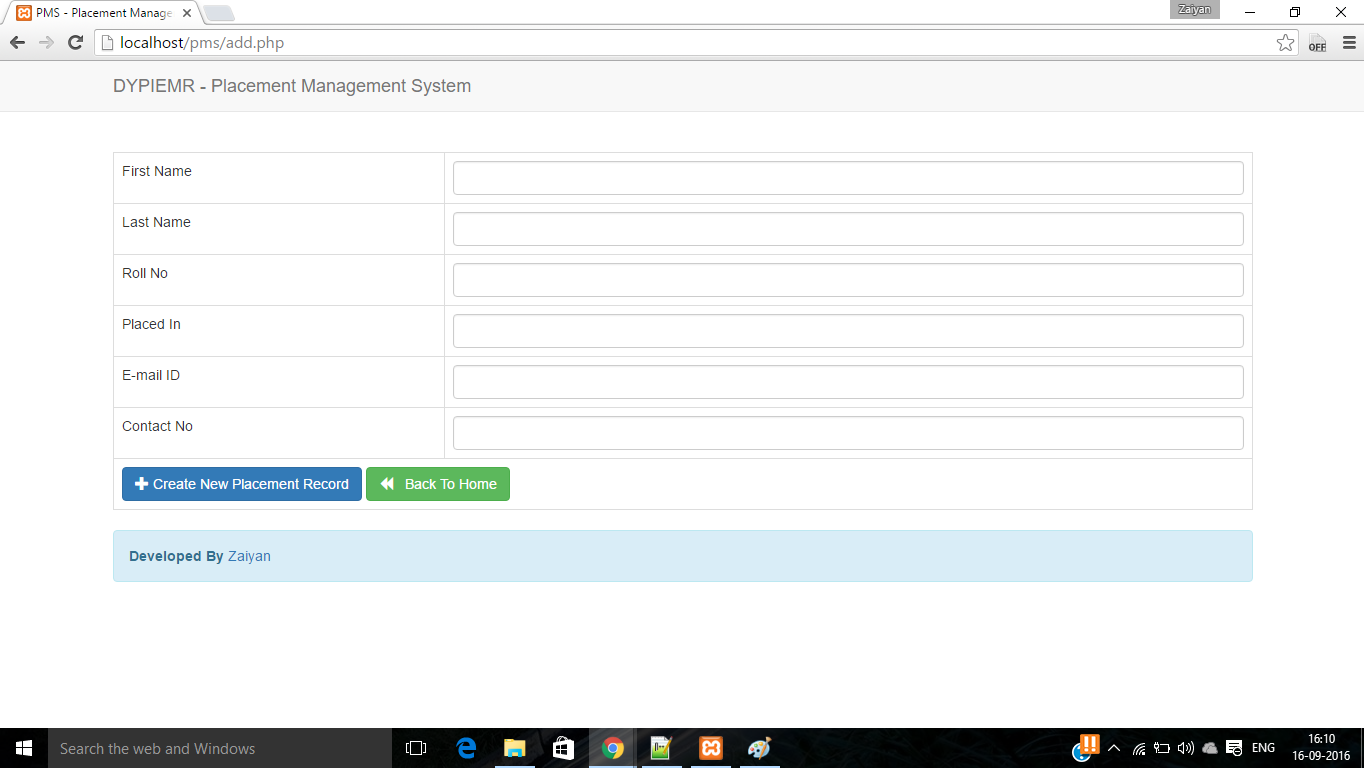


Figure 7.2: Integration test

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Chapter 8

Results

\*Below data is given for your reference\*

8.1 Screen shots

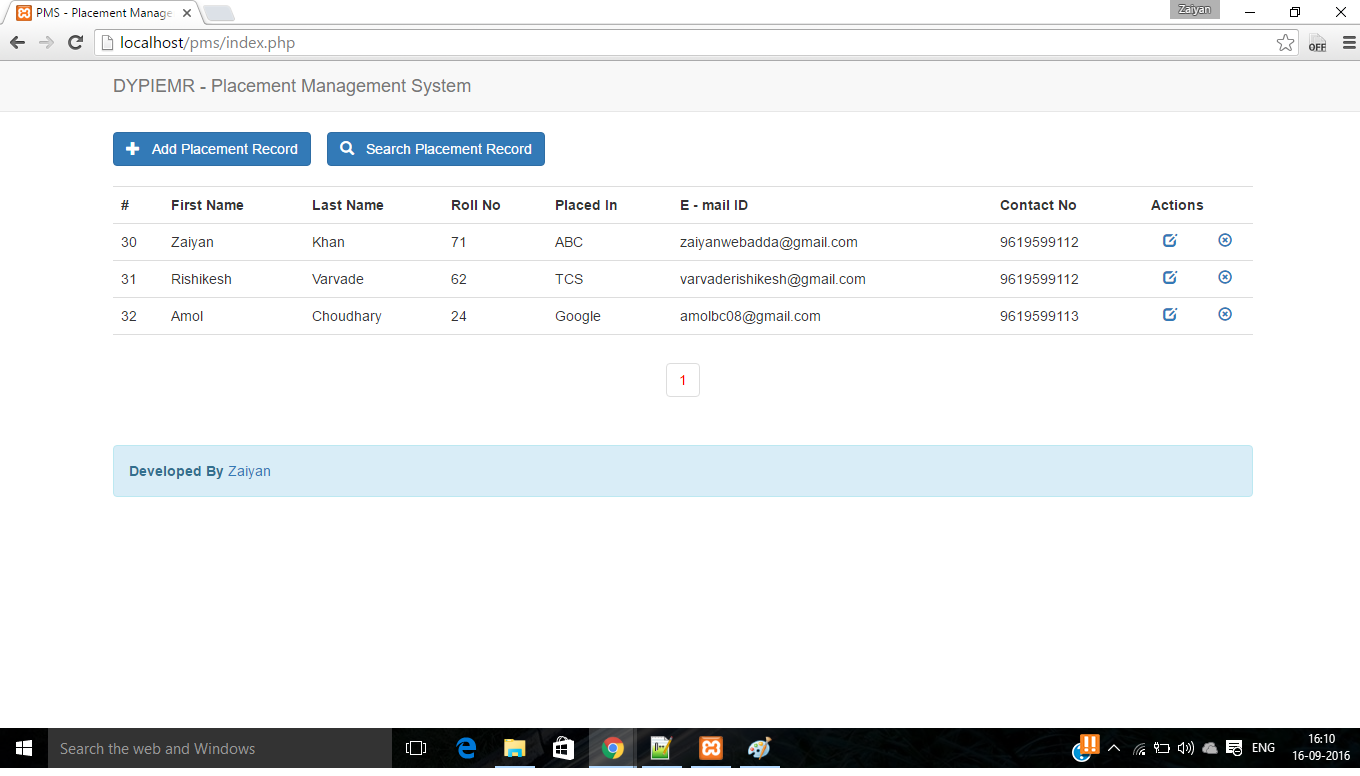
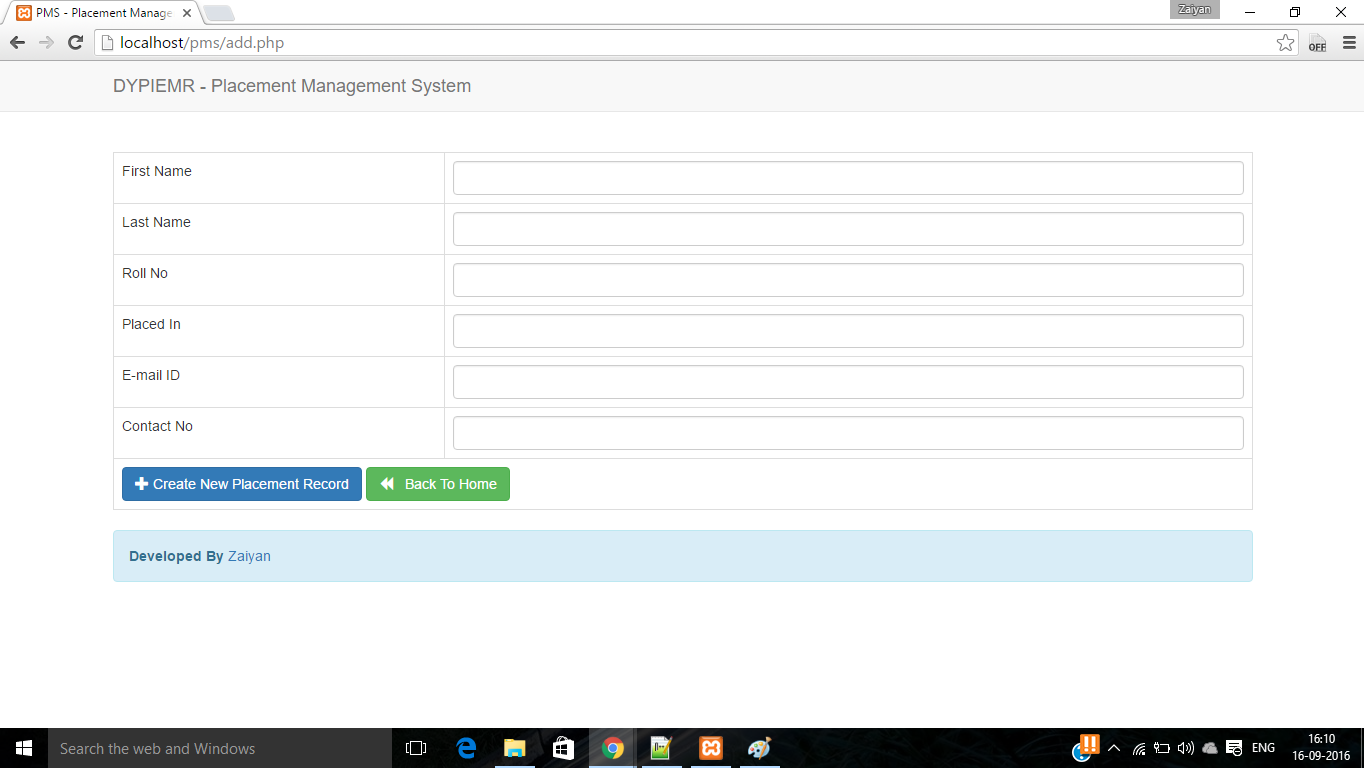


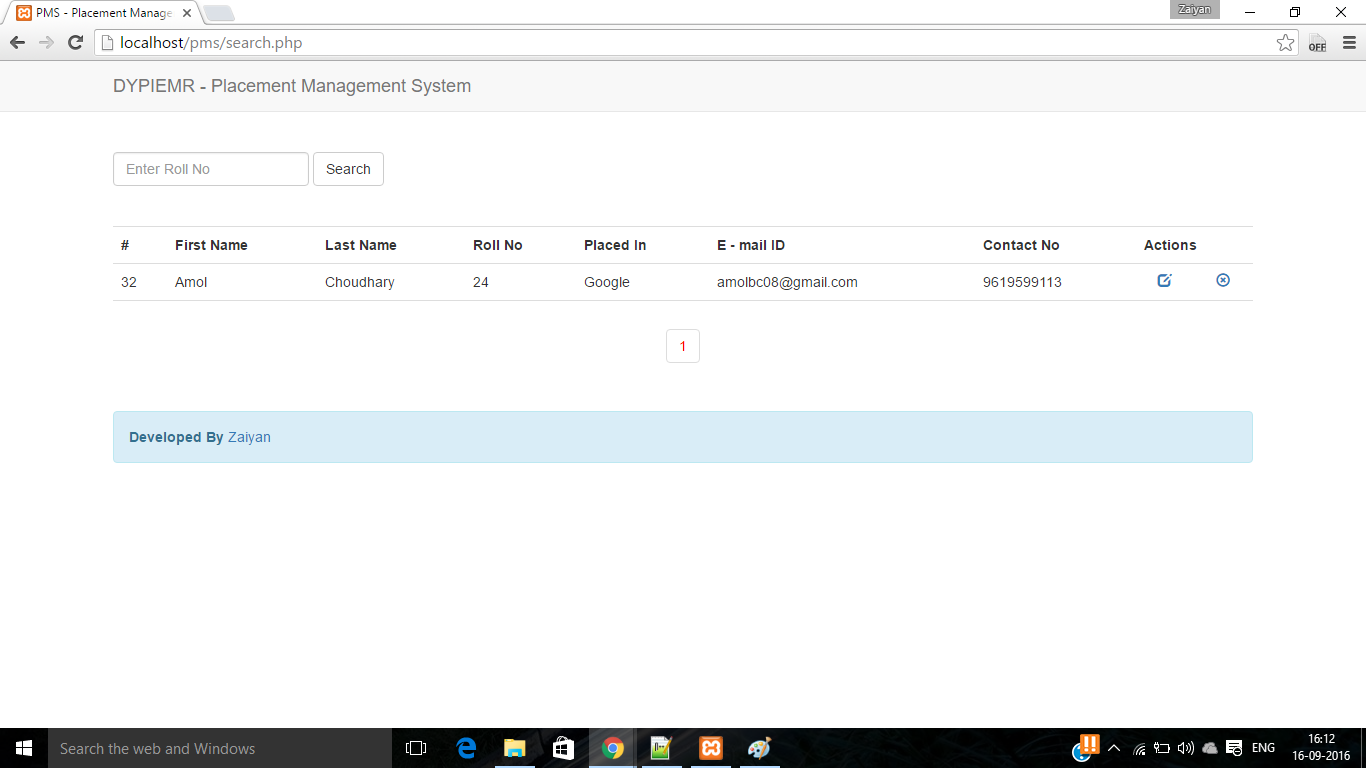
Figure 8.1: screenshot

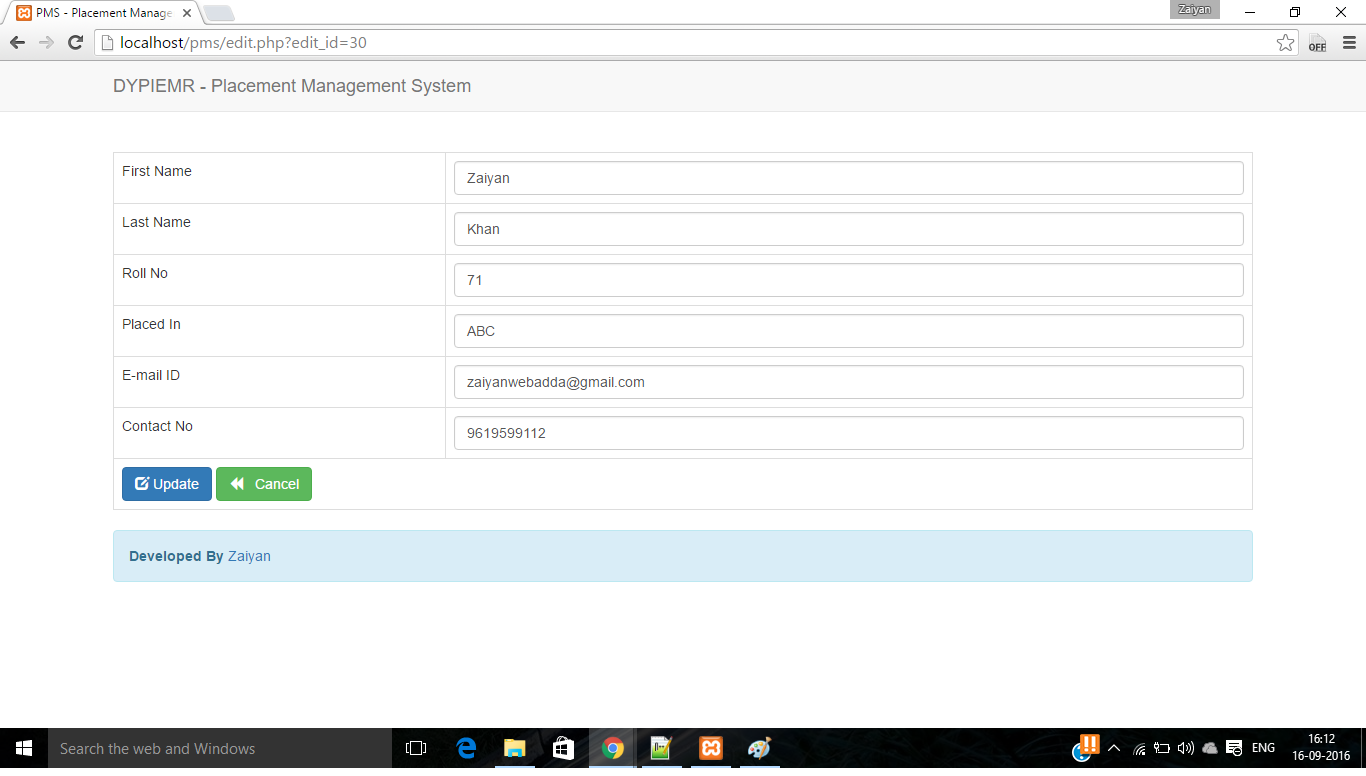
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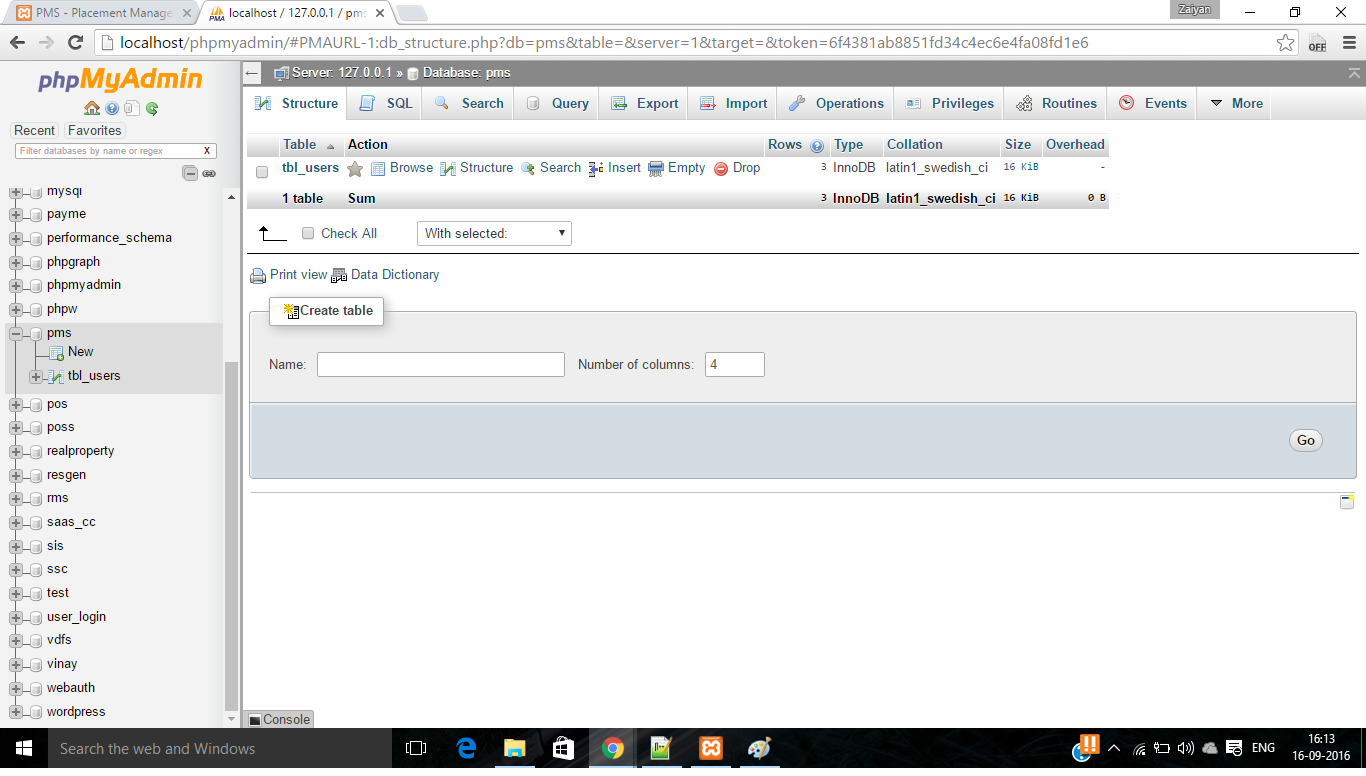
8.2 Outputs



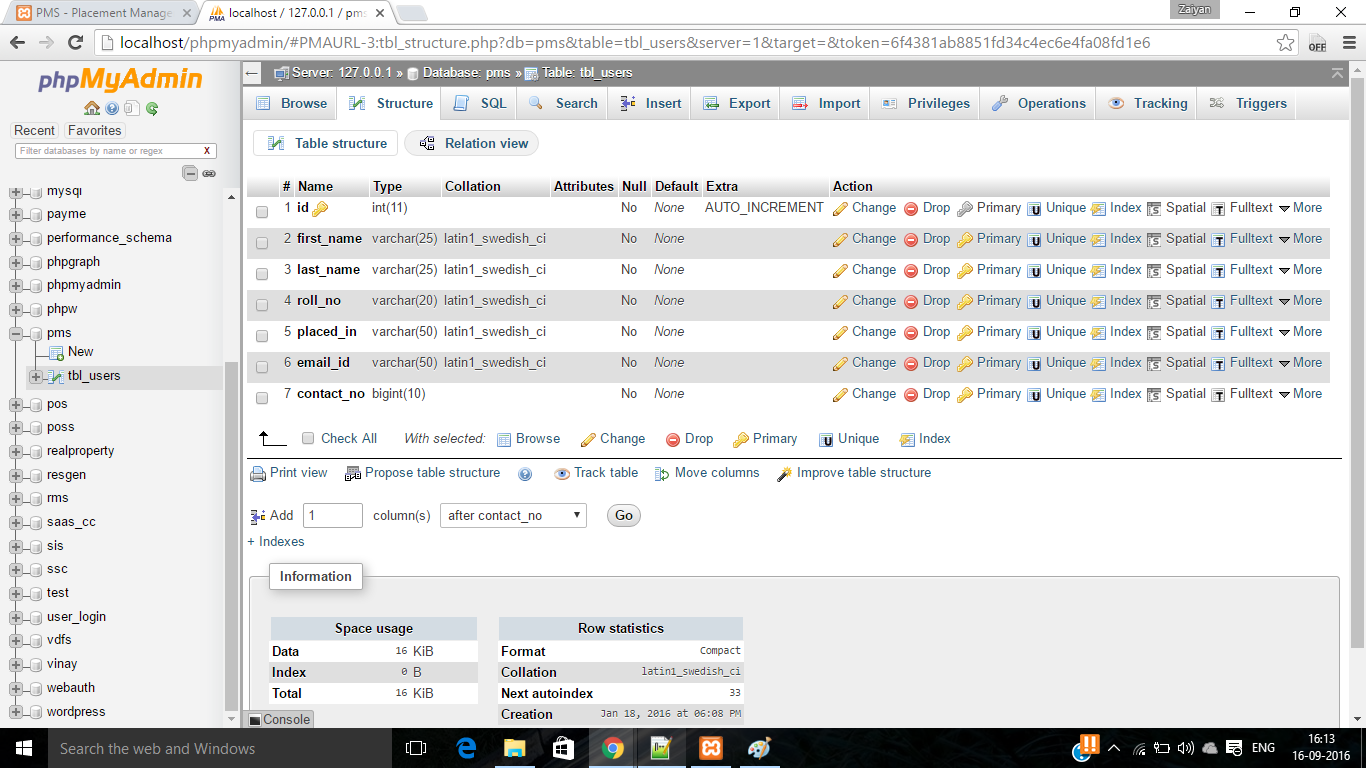
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Chapter 9

Conclusion and future scope

\*Below data is given for your reference\*

We can finally conclude that using this project we can have greater efficiency in providing the daily

visit reports of the employee and a great interface between the unit head and the

employees working on sites, thus becoming time saving and error free.

Future Scope: (Harshi)

The future scope of this project is including more funcitonalities such as :

1. Mobile App

2. Extensive Interface

3. Student Login

4. Extended Functionality

5. Email System

6. College Data Integration

Chapter 10

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\*Below data is given for your reference\*

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