

A DISSERTATION REPORT
ON

“Visitor’s Management System”

Submitted to BVDU-Amplify-DITM, Pune in the partial fulfillment of the
requirements for completing the course ‘SUMMER INTERNSHIP
DISSERTATION’ in program

Submitted by

Abhik Rai
BSIT/15/021
1715390024

Academic Year: 2017-2018

Under the guidance of
Mrs. Chanda Hirway



BVDU-Amplify-DITM
2nd floor College of Architecture,
Katraj, Pune.

Internship Completion Certificate (Issued by company)



Forbes Marshall
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Codel International
Forbes Solar
Forbes Marshall Steam Systems

HR: SS: RM: 17

Date: 4th August 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Abhik Rai** of Bharati Vidyapeeth University Pune, has successfully completed his internship in our organization under the guidance of Mr. Shrikant Joshi.

His Internship was on "Visitors Management System" from **5th June 2017 to 28th July 2017**.

He has been sincere & hardworking in all his efforts. We wish him very best in all his future endeavors.

Thanking you,
For Forbes Marshall Pvt. Ltd.

A handwritten signature in black ink, appearing to be "Sanyucta Sisodia".

Sanyucta Sisodia,
Section Manager-HR/Learning & Development

Forbes Marshall Private Limited

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Energy Conservation | Environment | Process Efficiency

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DATA SHEET

DATA SHEET

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Company Name Forbes Marshall

Address of Company PB NO. 29, Mumbai - Pune Road,
Kasarwadi, Pune - 411034

Company Phone No 02027145595

Company Website and Mail Id www.forbesmarshall.com

Work and Department allotted I.T department

Internal Guide Name Mr. Shrikant Joshi

Internal Guide Contact No 020 3985 8929

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PERIOD OF INTERNSHIP: From 5th June To 5th August


Signature of Student




Signature of Internal Guide



BVDU-Amplify-DITM
2nd floor College of Architecture,
Katraj, Pune.

Internship Completion Certificate

This is to certify that the Dissertation report entitled
"Visitor's Management System"

Submitted by

Abhik Rai
BSIT/15/021

1715380024

Academic Year: 2017-2018

This bonafide work is carried out by the student under the supervision of 'Mrs. Chanda Hirway' and it is submitted towards the partial fulfilment of the requirement of BVDU-Amplify-DITM, Pune.

Course Coordinator

Mrs Chanda Hirway

Head of Dept.

Prof. Prashant Hinduja

Seal/Stamp of College

Place: Pune

Date:

Principal

(BVDU-Amplify-DITM,
Pune

Acknowledgements

It is a great honour and pleasure to express my heartfelt gratitude to those who helped contribute to the preparation & completion of this project.

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I would like to thank **Prof. Bhaskar Anand**, my Class Coordinator at **BVDU-Amplify**, Pune, for Supporting and guiding me throughout my Internship Experience

I take this opportunity and privilege to articulate my deep sense of gratefulness to the I.T Department Manager and the staff of **FORBES MARSHALL** for their timely help and positive encouragement.

I wish to express a special thanks to all teaching and non-teaching staff members of **BVDU-Amplify-DITM**, Pune for their continuous support. I would like to acknowledge all my family members, relatives and friends for their help and encouragement.

Abhik Rai

Abstract

Forbes Marshall is a leader in process efficiency and energy conservation for Process Industry.

I worked with the I.T Department of Forbes Marshall as an I.T Intern in their Kasarwadi Branch.

Firstly, I was briefed about the project that I was going to work on. Then I studied the Oracle Apex application. I learned about the Oracle Apex application and its use and about the PL/SQL queries.

In this internship, I worked on a project to create an application in which the employee of the company can Add Appointment and Work Permit so that the security can view the appointments and work permits created and manage them. The application is handled by the admin in which the admin can add, update, delete and view all fields of the application.

I also learned what it is like to work in the Professional environment. Many Issues occurred while working for Forbes Marshall like Requirements being changed, time constraints and co-worker's issues but at the end the project/ my tasks were completed on time.

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Chapter 1

Organizational study/Observation/team/processes & regulations

About the company

Forbes Marshall is a leader in process efficiency and energy conservation for Process Industry, with over seven decades of experience building steam engineering and control instrumentation solutions. Their unique complementary strength allows them to design and offer industry-specific solutions that focus on energy conservation and process efficiency for diverse sectors. Their knowledge, innovative solutions, reliable products and global presence make them a trusted partner.

Their Energy Conservation Audits, systems and customized solutions have been able to save energy and fuel costs for the customers. They design and manufacture a wide range of advanced technology instrumentation for continuous stack emission monitoring, road tunnel atmosphere sensing, and plant safety equipment that is capable of meeting today's tough environmental and legislative demands.

For 70 years, the company has collaborated process industry in providing solutions in process efficiency, energy conservation and environmental monitoring. Highly skilled and dedicated engineers spend considerable time visiting process plants to identify solutions.

With focused investments in manufacturing, R&D and services, they create value for their stakeholders. They consistently bring new and innovative products to the market. Several of their products have received awards for innovation. The Minimax Modular Boiler, the Effimax (a unique boiler efficiency monitoring system), the Wireless Trap Monitoring System for remote monitoring of multi-location traps Thermodynamic Trap, Two Orifice Float Trap, Distributed Control system, Thermocompressor, and the Electronic Compound Regulation Burner Operation and Control System, Stack Analysers, Vortex Flowmeter, the MAC (Master Air Controller) and Biosens, a revolutionary new analyser for instant BOD analysis, are examples of our cutting-edge research and development.

Their core values of Family Spirit, Integrity, Innovation & Entrepreneurship and Delivering Value not only to the customers but also to the members and society make Forbes Marshall a place that puts people first: members, customers, suppliers, associates and the community.

The company is concerned with the community beyond the factory's gate. Since the inception of the company, sustainable social initiatives have been the key drivers of their philosophy to contribute and give back to the community in which they operate. Their diverse and sustained programs support health, education and life skills development in communities. They also help the community, particularly women, to engage in entrepreneurial ventures to support their families and thereby gain the skills and confidence in dealing with issues that impact their lives.

The company has been listed several times among the Top 5 “Best Workplaces in India”, and first in the manufacturing industry by surveys conducted by the Great Place to Work Institute in association with Economic Times.

They Provide:

- Solutions
- Services
- Products

Their Partners:

- Bapu Trust for Research on Mind & Discourse
- DASRA
- Sneha
- Social Venture

Their Values:

- Forbes Marshall Family Support
- Integrity
- Innovation & Entrepreneurship
- Value Delivery to the Customers, Members & Society

Vision and Mission:

To conserve the energy, environment & .to manage the processes efficiently.

Team:

- Director
- I.T Dept. Manager
- I.T Dept. Employees
- I.T Dept. Intern

Social Initiatives:

- Shehernaz Medicare
- Education
- Health Outreach
- Women Empowerment

Process and Regulations:

The Company followed the normal top-down process where every changes and idea were supposed to be informed to the manager who would approve the idea or suggest some changes to make it better or truncate it.

Chapter 2

Introduction

2.1 Overview:

This report is a detailed explanation of the steps taken to achieve the project titled- Visitor's Management System, which is managed by the security and the company employees.

2.2 Existing System:

The company had an existing application of Visitor's Management System, which was created in VB.Net and was purchased from a third party vendor, and was being used for many years. But they were not happy with the application as the application had many features, which were of no use to the company, and therefore they wanted to build a customized application of their own.

2.3 Work Proposal/Contribution in Detail:

The company wanted a customized application according to their needs. So I was told to study the existing system and then prepare the requirements and draw a rough U.I sketch of the application titled Visitor's Management System. In this System, the main aim was to manage the visitors of the company.

In this application, the company employee can add an appointment or work permit and these appointments and work permits can be seen by the security at the gate through which he can update the further details of the visitor and also add his photograph and print an id card for the visitor.

Chapter 3

Scope of Work

3.1 Objective:

The main objective of this project is to create an application in which the employee of the company can *Add Appointment* and *Work Permit* so that the security can view the appointments and work permits created and manage them. The application is handled by the admin in which the admin can add, update, delete and view all fields of the application.

3.2 Technology & Associated Platforms:

- The User Interface Design is created using Oracle Apex 4.2.
- The code is written using SQL and PL/SQL queries.
- The database used is Oracle 10g

Chapter 4

Feasibility Analysis

4.1 Objective:

The Objective of this feasibility study was to understand whether the following project was possible to complete within given certain circumstances. A good feasibility study will show the strength and deficits before the project is planned or budgeted for. The following are the various types of feasibility studies that were undertaken.

4.2 Types of Feasibility Done:

Technical Feasibility:

This is concerned with specifying the equipment and the software to satisfy the user requirements. The technical needs of the system vary considerably but might include:

- The facility to produce outputs at a given time.
- Response time under certain conditions.
- Ability to process a certain volume of transactions at a specified speed.
- Facility to communicate data to a distant location.

Technical feasibility centres on the existing computer system, hardware, software and to what extent it can support the system. In examining the technical feasibility, the configuration of the system is given more importance than the actual hardware. The configuration should provide the complete picture of the system requirements, for example how many workstations are required and how these units are interconnected so that they would operate smoothly. Specific hardware and software products can then be evaluated keeping in view the logical needs.

Economic Feasibility

Economic analysis is the most frequently used method for evaluating the effectiveness of a new system. More commonly known as cost/benefit analysis, the procedure is to determine the benefits and savings that are expected from a candidate system and compare them with costs. If benefits outweigh costs, then the decision is made to design and

implement the system. We assume that the benefit of the project is greater than the cost. So if we can develop the project easily then it is used for the evaluation of the proposed. We calculate the cost/benefit analysis and we assume that the benefit is feasible so we start developing the project. It is an analysis of the cost to be incurred in the system and benefits the derivable from the system. An Economic Feasibility Study should demonstrate the net benefit of the proposed course of action in the context of direct and indirect benefits and costs to the organization and to the public as a whole. It should be required for both pilot and long-term activities, plans and projects.

Operational Feasibility

It determines how acceptable the software is within the organization. The evaluations must then determine the general attitude and skills. Such restriction of the job will be acceptable. To the users are enough to run the proposed budget, hence the system is supposed to be feasible regarding all except feasibility. In operational feasibility, we attempt to ensure that every user can access the system easily. We develop a menu that users can easily access and we provide shortcut keys. We show a proper error message when any mistakes are made in the program. We provide help and a guideline menu to help the user. Changes in the ways individuals are organized into groups may then be necessary and the groups may now compete for economic resources with the needs of stabilized ones by converting a number in a file in software.

Behavioral Feasibility Normal human psychology of human beings indicate that people are resistant to change and computers are known to facilitate change. Any project formulations should consider this factor also. Before the development of the Project titled "Visitor's Management System", the need to study the feasibility of the successful execution of the project was felt and thus the following factors are considered for a Feasibility Study. 1. Need Analysis. 2. Provide the user's information pertaining to the preceding requirement.

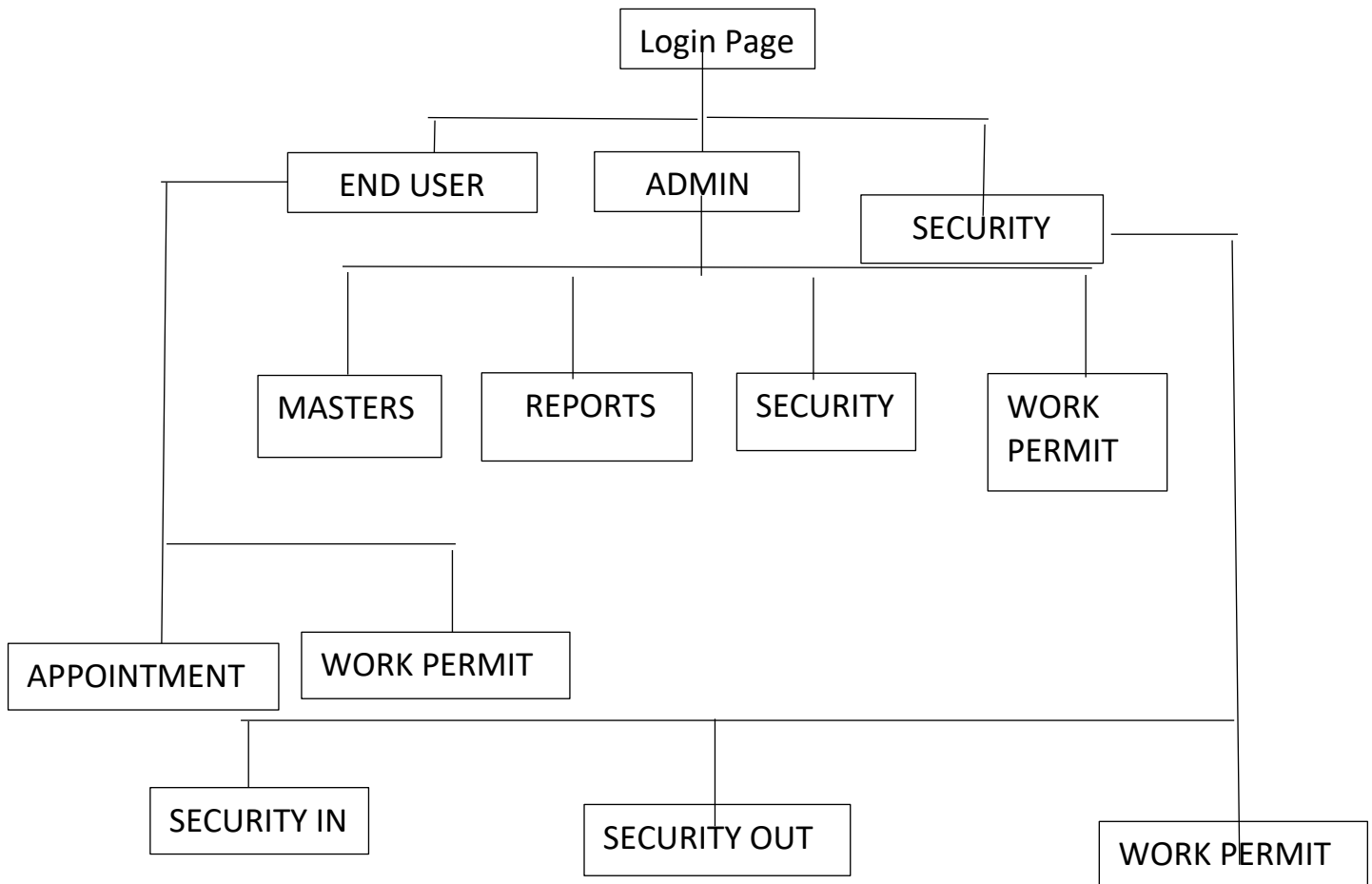
4.3 Table of Feasibility Studies:

The result of the Feasibility Study was not provided to us as we were interns and they told only about the final results that was we can proceed further with our designing phase.

Chapter 5

System Design

5.1 User-Interface Sketch/Flow:



Chapter 6

Implementation

6.1 Theoretical Implementation:

- Created different usernames for logging in to the application for the Admin, Security and the company employee.
- Created the database table with the required fields.
- Designed the U.I by firstly creating the tabs using conditions in SQL.
- Created the pages and the text fields.
- Wrote the PL/SQL code through which the details added by the admin, end user and the security are added or updated using the text fields and the details are stored and retrieved using the Oracle database.
- Testing the validations and functions

6.2 Actual Work of Contribution:

Day	Date	Work Executed	Learnings
1.	5/6/17	Get information about Oracle apex	Learnt about what is Oracle Apex, why it is used and how it works
2.	6/6/17	Get information about PL/SQL	Learnt PL/SQL syntaxes and queries for using functions, procedures, triggers, etc.
3.	7/6/17	Explore Oracle apex application	Went through all modules of oracle apex application and saw how each module works
4.	8/6/17	Create some applications in oracle apex using PL/SQL query	Created some applications like data entry and used PL/SQL queries
5.	9/6/17	Create some applications manually in oracle apex	Created applications using html code and added processes and validations to the application
6.	12/6/17	Analyze the project screenshots and gather the required information	Analyzed the project and its requirements

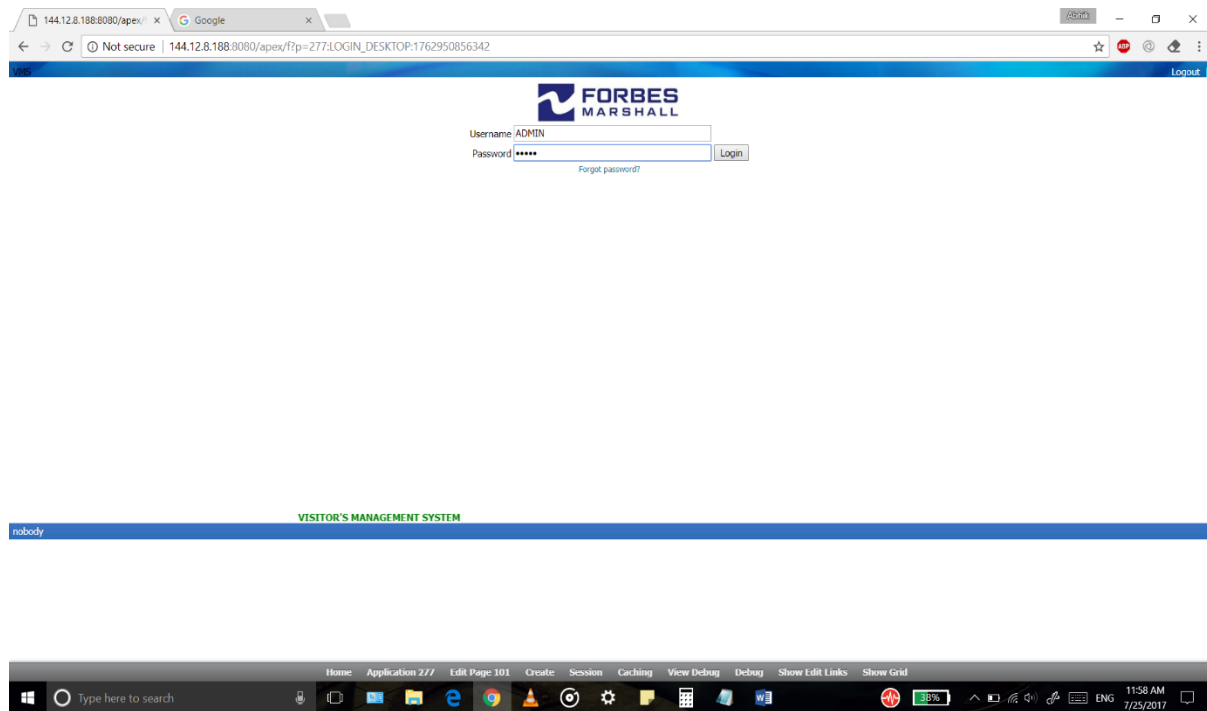
7.	13/6/17	Draw the Data Flow Diagram(DFD) and the Entity Relationship Diagram(ERD)	Drew the DFD and ERD Diagrams
8.	14/6/17	Make the required tables in excel showing the data types and then make the table in Oracle	Made the table in excel showing the data types with the scale and then wrote SQL query to create tables in Oracle
9.	15/6/17	Draw rough User Interface(UI) sketch and study how to insert images in oracle in database	Drew the rough User Interface(UI) sketch and searched on google for inserting images in oracle database
10.	16/6/17	Start designing the UI in trainee workspace in oracle apex	Designed UI in trainee workspace in oracle apex and studied about list of values(LOV) function
11.	19/6/17	Create U.I for addition of new appointment and vendor details in oracle apex	Learnt about adding different items in oracle apex and editing each item.
12.	20/6/17	Create U.I for addition of new user and department details in oracle apex	Learnt about adding different items in oracle apex and editing each item.
13.	21/6/17	Create report pages for appointment, vendor, user and department details for application in oracle apex	Learnt about adding a page using report and form and editing the form.
14.	22/6/17	Attach the application with database and store the details in respected tables in Oracle using PL/SQL query	Learnt insert query in PL/SQL and showing the inserted data in the report in another form in oracle apex.
15.	23/6/17	Edit reports and perform update and delete action on report data using PL/SQL query and read about inserting images in Oracle and validations	Learnt update and delete query in PL/SQL and editing the form created by default by using form and report page and read about validations in oracle apex
16.	26/6/17	Complete the required validations in the project	Learnt about validations of email, password, and mobile number using SQL query
17.	27/6/17	Complete the authorizations schemes for the project	Learnt about different authorization schemes in Oracle. Created custom authorization scheme
18.	28/6/17	Complete the required changes suggested by the internal guide	Completed the required changes (alignments, U.I, etc.)

19.	29/6/17	Change the login page U.I and add company logo on the login page	Added company logo on the login page and changed the U.I using HTML and CSS code
20.	30/6/17	Read about authentication schemes in Oracle(different pages to be displayed for security, admin and end user)	Learnt about authentication schemes and tried to create a custom authentication scheme in demo application
21.	3/7/17	Complete authentication schemes of the project application	Completed the authentication schemes for end user, admin and security guard using SQL query
22.	4/7/17	Study the new pages to be created in the existing application for the security	Studied the new pages to be created and gathered the information required
23.	5/7/17	Create new tabs/pages and reports in the application for the security guards	Created new pages and reports for the security guard and added new details in the report
24.	6/7/17	Complete the image insertion in the report for the security guard	Completed the image insertion in report using blob and HTML code
25.	7/7/17	Create a new report for the printing of an id card with the appointment details and photo	Created new report which includes the details that will be shown on the id card and that can be printed(Printing process not completed)
26.	10/7/17	Display report according to security logged in with their location	Wrote query to show the report according to the security's location
27.	11/7/17	Display report according to the status of the appointment	Wrote query to show report according to the appointment status (in, out, cancelled)
28.	12/7/17	Display appointment details using interactive reports	Displayed details using interactive reports which also displays the image
29.	13/7/17	Edit report fields according to the security in and out tabs	Displayed report fields according to the tabs. Each tab which displays different report fields
30.	14/7/17	Create list of values(LOV's) for existing vendors and all details of employees working in the company	Created LOV's using SQL query using select, etc.
31.	17/7/17	Study the new work permit page to be created in the application	Studied the page and gathered the required information and data

32.	18/7/17	Create rough U.I sketch and table design	Created rough U.I and table format and approved by the internal guide
33.	19/7/17	Create the U.I using oracle apex and create the table with data types	Created the U.I in oracle apex using report with form and created the table using SQL Query
34.	20/7/17	Create report of work permit	Created the report and made changes as per instructions
35.	21/7/17	Show report as per the logged in user	Customized the report using SQL query
36.	22/7/17	Create a new tab of work permit in the application	Created new tab in the application
37.	24/7/17	Customize work permit report for the security	Customized report for security using SQL query
38.	25/7/17	Customize work permit page for security	Customized work permit page using SQL query in oracle apex
39.	26/7/17	Make changes in the application as per the company's need	Made changes in the application as per the company's need
40.	27/7/17	Test the application for errors	Tested the application by adding all details and checking for any errors
41.	28/7/17	Create report of the application	Created the report of the application

6.3 Screenshots:

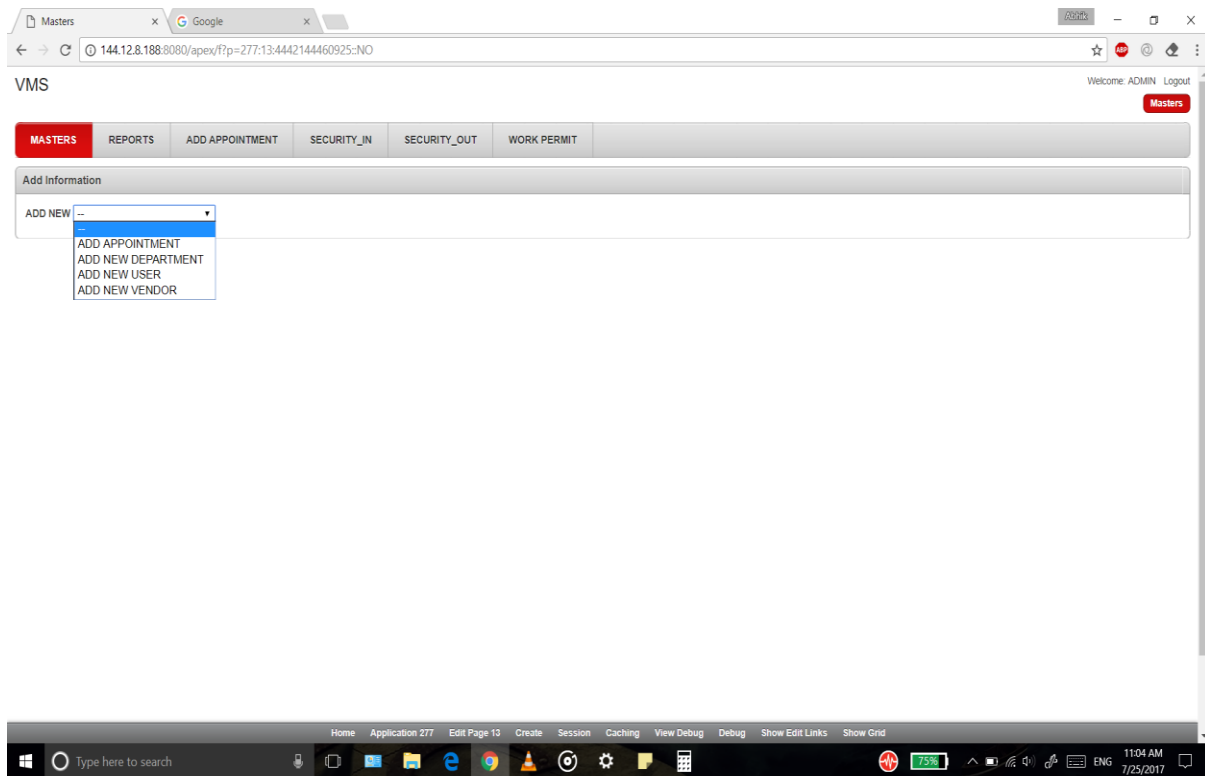
Login Page:



In the login page

1. The End User can login using their Token Number and Password
2. The Security of each location (Kasarwadi, Chakan, MIDC Pimpri) can login with their respective username and password
3. The Admin can login using his username and password

Masters Page:

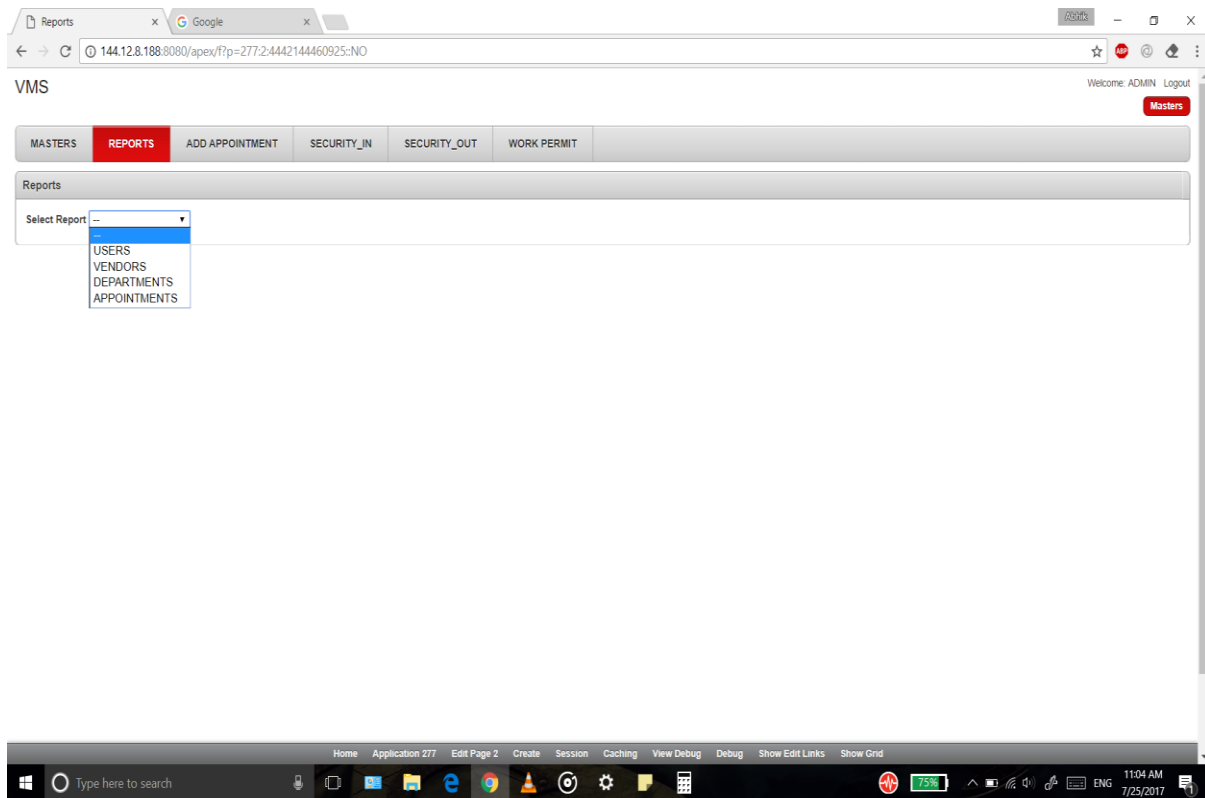


This page can only be seen by the Admin.

In this page, the Admin can select the details he wants to add from the Select List. From the Select List the Admin can choose to add:

1. Appointment
2. Department
3. Vendor
4. User

Reports Page:



This page can only be seen by the Admin.

In this page, the Admin can select the Report he wants to view from the Select List.

From the Select List the Admin can choose to view the reports of:

1. Appointment
2. Department
3. Vendor
4. User

Add Department Details:

The screenshot shows a web browser window with the URL `144.12&188&080/apex/f?p=277:103:4442144460925:NO`. The page title is 'Add New Department'. The browser's address bar shows the URL. The page has a navigation bar with tabs: 'MASTERS' (selected), 'REPORTS', 'ADD APPOINTMENT', 'SECURITY_IN', 'SECURITY_OUT', and 'WORK PERMIT'. Below the navigation bar, there is a section titled 'ADD NEW DEPARTMENT' with a dropdown menu. The main form area is titled 'ADD NEW DEPARTMENT INFORMATION' and contains two mandatory fields: 'Department Name' and 'Select Location'. The 'Select Location' field has three radio button options: 'KASARWADI', 'MIDC PIMPRI', and 'CHAKAN'. There is an 'ADD DEPARTMENT' button at the bottom of the form. The bottom of the screenshot shows a Windows taskbar with the search bar, application icons, and system tray showing the time as 11:05 AM on 7/25/2017.

In this page, the Admin can add new Department details.

The Admin has to add the:

1. Department Name
2. Location

The admin can select one or more locations

Star '' marked fields are mandatory.*

Add User Details:

VMS

Welcome: ADMIN Logout

MASTERS REPORTS ADD APPOINTMENT SECURITY_IN SECURITY_OUT WORK PERMIT

ADD NEW USER

ADD NEW USER INFORMATION

Username Enter in capital letter only

* Full Name

* Password

* Confirm Password

* Email

* Mobile Number

* Role

* Department

* Location

ADD USER

In this page, the Admin can add new User details.

The Admin has to add the:

1. Username
2. Full Name
3. Password and Confirm Password
4. Email
5. Mobile Number
6. Role
7. Department
8. Location

Star '' marked fields are mandatory.*

Add Vendor Details:

The screenshot shows a web browser window with two tabs: 'Add Vendor' and 'Google'. The address bar shows the URL '144.12.8.188:8080/apex/f?p=277:105:4442144460925:NO'. The page title is 'VMS'. In the top right corner, it says 'Welcome: ADMIN Logout' and has a 'Masters' button. Below this is a navigation bar with tabs: 'MASTERS' (highlighted), 'REPORTS', 'ADD APPOINTMENT', 'SECURITY_IN', 'SECURITY_OUT', and 'WORK PERMIT'. Under the 'MASTERS' tab, there is a dropdown menu with 'ADD NEW' and 'VENDOR' selected. The main content area is titled 'ADD NEW VENDOR INFORMATION' and contains the following form fields:

- * Vendor Company Name (text input)
- Address (text input)
- City (text input)
- Contact Person Name (text input)
- * Contact Person Number (text input)

At the bottom of the form is an 'ADD VENDOR' button. The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with the date '7/25/2017' and time '11:05 AM'.

In this page, the Admin/ End User can add new Vendor details.
The Admin/ End User has to add the:

1. Vendor Company Name
2. Address
3. Contact Person Name
4. Contact Person Number

Star '' marked fields are mandatory.*

Report of Appointments Table:

VMS

MASTERS **REPORTS** ADD APPOINTMENT SECURITY_IN SECURITY_OUT WORK PERMIT

Select Report: APPOINTMENTS

Q: Go Actions

Visitors Name	No. Of Persons Meeting	Other Visitors Name	Representing Company	Address	City	Mobile Number	Email	Office Number	Location	Visitor Type	Person To Meet	Department	Purpose	From Date	To Date	Appointment Time	Duration Of Meeting	General Instructions	Special Instructions	Reason For Special Instruction
ABHIK RAI	1	SUSHANT BHISE	BHARATI VIDYAPEETH	KATRAJ	PUNE	9823267305	abhikra2710862@gmail.com	-	KASARWADI	TRAINEE	F3956	IT	OFFICIAL	13-JUL-17	14-JUL-17	-	300	-	-	-
SUSHANT BHISE	1	VENKETESH CHANDURKAR	BHARATI VIDYAPEETH	KATRAJ	PUNE	9075144894	sbhise777@gmail.com	741250	MDC PIMFRI	TRAINEE	SANYUCTA	HR	OFFICIAL	13-JUL-17	13-JUL-17	-	120	-	-	-
ABHIK RAI	1	SUSHANT BHISE	BHARATI VIDYAPEETH	CAMP	PUNE	9823267305	abhikra2710862@gmail.com	26718059	KASARWADI	TRAINEE	SANDIP PARLAKAR	IT	OFFICIAL	11-JUL-17	12-JUL-17	11-JUL-2017 11:01:51	300	-	Laptop	-
VENKETESH CHANDURKAR	1	SUSHANT BHISE	BHARATI VIDYAPEETH	KATRAJ	PUNE	9404269176	venky@gmail.com	895412	CHAKAN	TRAINEE	SANYUCTA	HR	OFFICIAL	13-JUL-17	13-JUL-17	-	120	-	-	-
ABHIK RAI	1	-	sada	-	sada	123541258	-	-	KASARWADI	IT	ADMIN	FM	data	16-JUL-17	16-JUL-17	16-JUL-2017 05:33:00	30	-	-	-
ABHIK RAI	1	SUSHANT BHISE	BHARATI VIDYAPEETH	KATRAJ	PUNE	9823267305	abhikra2710862@gmail.com	-	KASARWADI	TRAINEE	F3956	IT	OFFICIAL	13-JUL-17	14-JUL-17	-	300	-	-	-

release 1.0

Home Application 277 Edit Page 264 Create Screens Caching View Debug Debug Show Edit Links Show Grid


Type here to search

11:05 AM 7/25/2017

In this page, the Admin can view the Appointments Reports of all the locations and End Users.

Report of Vendor Table:

The screenshot displays a web application interface for a Vendor Report. The browser window shows the URL `144.12.188.8080/apex/?p=277:202:4442144460925:NO`. The application has a navigation bar with tabs: **MASTERS**, **REPORTS** (active), **ADD APPOINTMENT**, **SECURITY_IN**, **SECURITY_OUT**, and **WORK PERMIT**. Below the navigation bar, there is a "Select Report" dropdown menu set to "VENDORS". A search bar with a "Go" button and an "Actions" dropdown is present. The main content area displays a table with the following data:

Name	Address	City	Contact Person Name	Contact Person Number	Added By	Added On	Updated By	Updated On
 A B CARGO	MAULI LANDGE CHAWL KASARWADI	MUMBAI	ABDUL MOMIN	9890083265	ADMIN	23-JUN-17	ADMIN	23-JUN-17

The table shows 1 record out of 1 total. The Windows taskbar at the bottom indicates the system time is 11:06 AM on 7/25/2017.

In this page, the Admin can view the Vendors Report.
If the Admin wishes to update some details of the Vendor, he can update by clicking the pencil icon from the report.

Report of Users Table:

VMS

Welcome: ADMIN Logout Masters

MASTERS REPORTS ADD APPOINTMENT SECURITY_IN SECURITY_OUT WORK PERMIT

Select Report: USERS

Q- Go Actions

Username	Fullname	Password	Email	Mobilen	Role	Department	Location	Added By	Added On	Updated By	Updated On
SECURITY_CHK	SECURITY CHAKAN	securityc	securityc@forbesmarshall.com	8974562317	SECURITY	SECURITY	CHAKAN	ADMIN	03-JUL-17	ADMIN	24-JUL-17
ADMIN	ADMIN	admin	admin@forbesmarshall.com	9823267305	ADMIN	I.T	MIDC PIMPRI	ADMIN	11-JUL-17	ADMIN	11-JUL-17
ADMIN	ADMIN	admin	admin@forbesmarshall.com	8956237845	ADMIN	I.T	KASARWADI	ADMIN	29-JUN-17	ADMIN	04-JUL-17
SECURITY_KSR	SECURITY KASARWADI	securityk	securityk@forbesmarshall.com	7894561236	SECURITY	SECURITY	KASARWADI	ADMIN	03-JUL-17	ADMIN	05-JUL-17
SECURITY_MIDC	SECURITY MIDC PIMPRI	securityp	securityp@forbesmarshall.com	9874563211	SECURITY	SECURITY	MIDC PIMPRI	ADMIN	03-JUL-17	ADMIN	05-JUL-17
ADMIN	ADMIN	admin	admin@forbesmarshall.com	9823267305	ADMIN	I.T	CHAKAN	ADMIN	11-JUL-17	ADMIN	11-JUL-17

1 - 6

In this page, the Admin can view the Users Report.

If the Admin wishes to update some details of the User, he can update by clicking the pencil icon from the report.

Report of Departments Table:

VMS

Welcome: ADMIN Logout

Masters

MASTERS REPORTS ADD APPOINTMENT SECURITY_IN SECURITY_OUT WORK PERMIT

Select Report: DEPARTMENTS

Q- Go Actions

Department	Location	Added By	Added On	Updated By	Updated On
SECURITY	KASARWADI, MIDC PIMPRI, CHAKAN	ADMIN	05-JUL-17	ADMIN	05-JUL-17
PUNE DEPOT	KASARWADI	-	21-JUN-17	ADMIN	04-JUL-17
R&D	KASARWADI	-	21-JUN-17	ADMIN	04-JUL-17
HR	MIDC PIMPRI	-	21-JUN-17	ADMIN	05-JUL-17
FMI	KASARWADI	-	21-JUN-17	ADMIN	05-JUL-17
I.T	KASARWADI	ADMIN	28-JUN-17	ADMIN	05-JUL-17

1 - 6

In this page, the Admin can view the Departments Report. If the Admin wishes to update some details of the Department, he can update by clicking the pencil icon from the report.

Add Appointment Page:

VMS

ADD APPOINTMENT WORK PERMIT

ADD APPOINTMENT

Visitor's Name

OR select existing visitor from dropdown list:

+

Other Visitor's Name

* Representing Organization/Company

Address

* Visiting from (City)

* Visitor Mobile No.

Visitor Email

Office Phone No.

* Location

* Visitor Type

* Person To Meet:

* Department:

* Purpose

* From Date

* To Date

Appointment Time (hh:mm)

* Duration of Meeting (in minutes)

General Instructions

Special Instructions ☐ CD/DVD ☐ Camera ☐ Laptop ☐ USB ☐ Other

Reason for Special Instruction

ADD APPOINTMENT

In this page, the End User/Admin can add new Appointments.

The details to be filled are:

1. Visitors Name or Existing Visitor Name
2. + Number of other visitors
3. Company name
4. Visiting from city
5. Mobile number
6. Email
7. Location
8. Visitor type
9. Person to meet
10. Department
11. Purpose
12. From date and to date
13. Appointment time
14. Duration of meeting

Star '' marked fields are mandatory.*

Create Work Permit:

VMS

ADD APPOINTMENT **WORK PERMIT**

ADD WORK PERMIT

CANCEL CREATE

* Name of Contractor: Name of Subcontractor:

* Location of Work: Specify Specific Location:

* Start Date & Time: 25-JUL-2017 09:55:23 * End Date & Time: 25-JUL-2017 09:55:23

* Type of Work: Is Work Above 3 meters:

* Supervisor Name: Wc Policy Available:

Name's of Workmen: Description of work in details:

Added By: F3956 Added On: 25-JUL-17

In this page, the End User can add new Work Permit

The details to be filled are:

1. Name of Contractor
2. Name of Subcontractor
3. Location of Work
4. Specific Location
5. From date and time
6. To date and time
7. Type of work
8. Is work above 3 meters
9. Supervisor Name
10. WC Policy available
11. Names of Workmen
12. Description of Work

Star '' marked fields are mandatory.*

Work Permit Report:

Report 1 x Google x

144.12.8.188:8080/apex/?p=277:14:2830813789239---&success_msg=Action%20Processed%2F8625FF89546A05F513E9D4EBFAEE044%2F

VMS Welcome: F3956 Logout Masters

ADD APPOINTMENT WORK PERMIT

Q- Go Actions CREATE NEW

No	Name Contractor	Name Subcontractor	Work Location	Specific Location	Start Time	End Time	Work Type	Work Above 3meters	Supervisor Name	WC Policy	Workmens Name	Work Description	Safety Shoes	Safety Helmet	Safety Goggle	Double Insulated	Safety Equipment	Insulated Cable	Cra Reqs
4	ABHIK RAI	-	KASARWADI	-	24-JUL-2017 14:00:56	24-JUL-2017 14:00:56	Electrical Work	YES	SANDIP PARLIKAR	ESIC	-	-	YES	YES	YES	-	-	-	-
5	SUSHANT BHISE	-	CHAKAN	-	24-JUL-2017 15:04:06	24-JUL-2017 15:04:06	Electrical Work	-	SANDIP PARLIKAR	-	-	-	-	-	-	-	-	-	-

Home Application 277 Edit Page 14 Create Session Caching View Debug Debug Show Edit Links Show Grid release 1.0

Type here to search

Report 1 x Google x

144.12.8.188:8080/apex/?p=277:14:2830813789239---&success_msg=Action%20Processed%2F8625FF89546A05F513E9D4EBFAEE044%2F

Welcome: F3956 Logout Masters

Insulated Cable	Safety Equipment	Crane Required	Crane Driver License	Crane Hook	Adequate Load & Size	Crane Form 11	Crane SWL	Rope Chain Tackle	Forklift Required	Forklift Driver License	Safety Belt	Hand Brake	Forklift Form 11	Reverse Horn	Safety Training	Toolbox Training	Training Record	Added By	Added On
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F3956	24-JUL-17
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F3956	25-JUL-17

1 - 2

Home Application 277 Edit Page 14 Create Session Caching View Debug Debug Show Edit Links Show Grid release 1.0

Type here to search

The Admin and the End User can view the Work Permit Report.

1. If the End User is logged in then they will be able to see the Work Permit created only by them and not of others.
2. If Admin is logged in then he will be able to see all the Work Permits.

SECURITY_IN Report:

Visitor Name	Total Persons Monitor	Other Visitor Name	Representative Category	Address	City	Mobile Number	Email	Office Number	Location	Visitor Last	Person ID	Department	Purpose	From Date	To Date	Appointment Date	Duration Meeting	General Instructions	Special Instructions	Reason for Service (Referral)	Status	Visitor ID	Remarks	Photo	Print
ABHIR RAI	1	SUBHANT BHISE	BHARATI VIDYAPEETH	KATRAJ	PUNE	9821287305	abhirne271108@gmail.com	-	KASARIMADI	TRIANEE	F3688	IT	OFFICIAL	13-JUL-17	16-JUL-17	-	300	-	-	-	IN	12-JUL-2017 15:31:34	-		Print
ABHIR RAI	1	-	SAO	-	SAO	1230541258	-	-	KASARIMADI	SA	ADMIN	PM	SA	15-JUL-17	15-JUL-17	15-JUL-2017 08:33:50	30	-	-	-	-	-	-		Print
ABHIR RAI	1	SUBHANT BHISE	BHARATI VIDYAPEETH	KATRAJ	PUNE	9821287305	abhirne271108@gmail.com	-	KASARIMADI	TRIANEE	F3688	IT	OFFICIAL	13-JUL-17	16-JUL-17	-	300	-	-	-	-	-	-		Print

The Security_IN Report will be displayed as per the logged in security location. For example, Chakan Security will only see the Appointments created in Chakan. The security has to update the Appointment Details by clicking on the pencil icon in the report.

Update SECURITY_IN Details:

VMS Welcome: SECURITY_KSR Logout

APPOINTMENT DETAILS

Visitor's Name: ABHIK RAI	Person To Meet: F3956
+ 1	
Other Visitors Name: SUSHANT BHISE	Department: I.T
Representing Organization/Company: BHARATI VIDYAPEETH	Purpose: OFFICIAL
Address: KATRAJ	From Date: 13-JUL-17
Visiting from (City): PUNE	To Date: 14-JUL-17
Visitor Mobile No.: 9823267305	Appointment Time: 25-JUL-2017 09:58:29
Visitor Email: abhikrai2710862@gmail.com	Duration Of Meeting (in minutes): 300
Office No:	General Instructions:
Location: KASARWADI	Special Instructions:
Visitor Type: TRAINEE	Reason For Special Instruction:

Edit CANCEL DELETE UPDATE

Status:

Visitor In:

Remarks:

Photo: No file chosen

release 1.0

Windows taskbar: Home Application 277 Edit Page 9 Create Session Caching View Debug Debug Show Edit Links Show Grid 11:20 AM 7/25/2017

After clicking on the pencil icon this page will be displayed, in which the security has to update the following details:

1. Status (IN or Cancelled)
2. Visitor In time
3. Remarks
4. Photo

ID Print:

Security IN

Welcome: SECURITY_KSR Logout

Masters

Office Number	Location	Visitor Type	Person To Meet	Department	Purpose	From Date	To Date	Appointment Time	Duration Of Meeting	General Instructions	Special Instructions	Reason For Special Instruction	Status	Visitor In	Remarks In	Photo	Print
-	KASARWADI	TRAINEE	F3956	IT	OFFICIAL	13-JUL-17	14-JUL-17	-	300	-	-	-	IN	12-JUL-2017 10:31:34	-		
-	KASARWADI	tt	ADMIN	FM	fafa	18-JUL-17	18-JUL-17	18-JUL-2017 05:33:00	30	-	-	-	-	-	-		Print
-	KASARWADI	TRAINEE	F3956	IT	OFFICIAL	13-JUL-17	14-JUL-17	-	300	-	-	-	-	-	-		Print

1 - 3

Home Application 277 Edit Page 7 Create Session Caching View Debug Debug Show Edit Links Show Grid

After updating the details, the security can print the ID by clicking on the print option from the report and then the next screen will be displayed as shown below. Then the ID can be printed by using the browser's print option.

Print ID

144.128.188.8080/apex/?p=277:11:5504747199736:NO:P11_APPOINTMENT_NO:22

Back

Report View Row of Exclude Null Values Displayed Columns

Photo

Visitor's Name ASHOK RAI

Representing Company BHARATI VIDYAPEETH

Visitor Type TRAINEE

Department IT

Person To Meet F3956

Appointment Time -

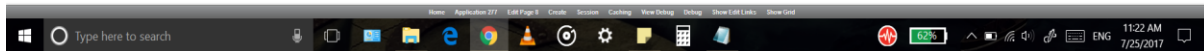
From Date 13-JUL-17

To Date 14-JUL-17

Home Application 277 Edit Page 11 Create Session Caching View Debug Debug Show Edit Links Show Grid

SECURITY_OUT Report:

Visitor Name	No. Of Persons Meeting	Other Visitor Name	Representing	Address	City	Mobile Number	Email	Office Number	Location	Visitor Type	Person ID	Department	Purpose	From Date	To Date	Appointment Date	Duration	General Instructions	Special Instructions	Reason For Appointment	Status	Visitor ID	Remarks	Visitor ID	Remarks	Photo
ADHIKARI	1	SUSHANT SINGH	BHARATI VISHWAKETH	KATRAJ	PUNE	022087305	adhiw@2710802@gmail.com		KASARWADI	TRAINEE	P300	IT	OFFICIAL	13-JUL-17	14-JUL-17		200				IN	13-JUL-2017 10:51:34				



The Security_OUT Report will be displayed as per the logged in security location. For example, Chakan Security will only see the Appointments created in Chakan. Only the Appointments with Status “IN” will be shown in the Security_OUT Report.


The security has to update the Appointment Details by clicking on the pencil icon in the report.

Update SECURITY_OUT Details:

Form on SECURITY_OUT x Google x

144.12&188.8080/apex/?p=277:12:5504747199736:NO:P12_APPOINTMENT_NO:22

APPOINTMENT DETAILS

Visitor's Photo: 

Visitor's Name: ABHIK RAI

No Of Persons Meeting: 1

Other Visitors Name: SUSHANT BHISE

Representing Organization/Company: BHARATI VIDYAPEETH

Address: KATRAJ

Visiting from (City): PUNE

Visitor Mobile No.: 9823267305

Visitor Email: abhikra2710862@gmail.com

Office No:

Location: KASARWADI

Visitor Type: TRAINEE

Remarks In:

Person To Meet: F3956

Department: I.T

Purpose: OFFICIAL

From Date: 13-JUL-17

To Date: 14-JUL-17

Appointment Time: 25-JUL-2017 10:01:10

Duration Of Meeting: 300

General Instructions:

Special Instructions:

Reason For Special Instruction:

Visitor In: 12-JUL-2017 10:31:34

Edit

CANCEL UPDATE

Status:

Visitor Out:

Remarks Out:

Home Application 277 Edit Page 12 Create Session Caching View Debug Debug Show Edit Links Show Grid

Type here to search

11:23 AM 7/25/2017

After clicking on the pencil icon this page will be displayed, in which the security has to update the following details:

1. Status (OUT)
2. Visitor Out time
3. Remarks

Work Permit Report for Security:

VMS

Welcome: SECURITY_KSR Logout

Masters

SECURITY_IN SECURITY_OUT **WORK PERMIT**

Q- Go Actions

No	Name Contractor	Name Subcontractor	Work Location	Specific Location	Start Time	End Time	Work Type	Work Above 3meters	Supervisor Name	WC Policy	Workmens Name	Work Description	Safety Shoes	Safety Helmet	Safety Goggles	Double Insulated	Safety Equipment	Insulated Cable	Cra Req
1	ABHIK RAI	asd	KASARWADI	asd	19-JUL-2017 14:10:14	19-JUL-2017 14:10:14	Height work on or Above 3 meter	YES	asd	ESIC	asd	asdad	YES	YES	YES	YES	YES	YES	YES
4	ABHIK RAI	-	KASARWADI	-	24-JUL-2017 14:00:56	24-JUL-2017 14:00:56	Electrical Work	YES	SANDIP PARLIKAR	ESIC	-	-	YES	YES	YES	-	-	-	-

Home Application 277 Edit Page 14 Create Session Caching View Debug Debug Show Edit Links Show Grid

Type here to search

11:24 AM 7/25/2017

The Work Permit Report will be displayed as per the logged in security location. For example, Chakan Security will only see the Work Permits with Work location of Chakan. The security has to update the Work Permit details by clicking on the pencil icon in the report.

Update Work Permit for Security:

Form on VMS_WORK_PE x Google x

144.128.188.8080/apex/f?p=277:15:5504747199736:NO:P15_NO:1

SECURITY_IN SECURITY_OUT **WORK PERMIT**

ADD WORK PERMIT

CANCEL DELETE UPDATE

* Name of Contractor: ASHIK RAI Name of Subcontractor: asd
 * Location of Work: KASARWADI Specify Specific Location: asd
 * Start Date & Time: 19-JUL-2017 14:10:14 * End Date & Time: 19-JUL-2017 14:10:14
 * Type of Work: Height work on or Above 3 meter Is Work Above 3 meters: YES
 * Supervisor Name: asd Wc Policy Available: ESIC
 Name's of Workmen: asd Description of work in details: asdad
 Added By: SECURITY_KSR Added On: 25-JUL-17

Is Basic PPE Provided

Safety Shoes YES Safety Helmet YES Safety Goggle YES

Is Powered Hand Tools provided with:

Double Insulated YES Equipment with safety guard provided YES Cable with insulated & Three Pin Top YES

Crane

Crane Required YES

Driver with license YES Crane hook with latch YES Load to be lifted & crane size is adequate YES

Crane with Form No 11 YES Crane with SWL YES Rope/Chain/Tackle with certificate form 11 YES

Fork Lift

Fork Lift Required YES

Driver with license YES Safety belt provided YES Hand Brake YES

Fork Lift with Form No 11 YES Reverse Horn YES

Safety Training

Safety training attended YES Daily tool box training conducted YES Training record submitted to EHS YES

Home Application 277 Edit Page 15 Create Session Caching View Debug Debug Show Edit Links Show Grid

Type here to search

11:24 AM 7/25/2017

After clicking on the pencil icon this page will be displayed, in which the security has to update the following details:

1. Is basic PPE Provided
2. Crane details
3. Is Powered hand tools provided with
4. Fork Lift details
5. Safety Training Details

All fields are optional.

Chapter 7

Testing

For the testing of the application, I was asked to test the validations and the functions of the applications.

Types of testing used are:

- Integration testing
- Feature testing

Integration Testing

It is the phase of software testing in which individual software modules are combined and tested as a group. It occurs after unit testing and before validation testing. Integration testing takes as its input modules that have been unit tested, groups them in larger aggregates, applies tests defined in an integration test plan to those aggregates, and delivers as its output the integrated system ready for system testing.

Feature Testing

A Software feature can be defined as the changes made in the system to add new functionality or modify the existing functionality. Each feature is said to have a characteristic that are designed to be useful, intuitive and effective.

In reality, a new test set is created for testing that feature corresponding to that cycle of that release. The extremely important and generally used new features ought to be tested thoroughly.

Chapter 8

Conclusion/Learnings

As this project was created in Oracle Apex, which was completely new to me so I got to study and know how the application works, when it is used and its advantages. I also learnt to write the PL/SQL queries and how to use the database.

Chapter 9

Future Scope

In the future, I would like to suggest adding the ability to capture the Visitor's image on the security gate and update it directly into the applications database for a faster process and to create an ID card layout using oracle glass so that the printout will be taken in the size of the ID card.

Chapter 10

References

- YouTube
- Oracle Documentation
- Google
- Company guide