RDL Visitor Management System Using RFID
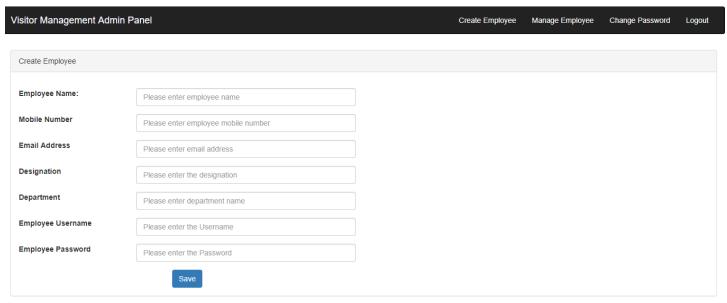
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1. Introduction:

RDL Smart Visitor Management System records the details of visitor/visitors visiting a campus/industry by using a RFID card. The visitor is provided with an RFID card which must be carried along with him/her to scan against an RFID Reader while going out of campus/industry or coming inside. Location visited information and incoming and outgoing logs will be stored securely in the server

The software side of the Smart Visitor Management has three different modules those are admin panel, employee panel and visitor panel.

2. Admin Panel:

The admin panel basically creates an employee (user) to schedule the meeting at any date and time for the visitors and the options are given below:

2.1.1. **Create Employee**: Here admin creates an employee (user) by registering the basic details which are stored in the server.

Visitor Management Admin Panel	Create Employee	Manage Employee	Change Password	Logout

Create Employee

Employee Name:	Please enter employee name
Mobile Number	Please enter employee mobile number
Email Address	Please enter email address
Designation	Please enter the designation
Department	Please enter department name
Employee Username	Please enter the Username
Employee Password	Please enter the Password

Save

2.1.2. **Manage Employee:** This option lists out all the user or employees, it will be displayed in a grid layout, also there is a provision to either **edit** the basic profile of the user or to **delete** the account.

Visitor Management Admin Panel	Create Employee	Manage Employee	Change Password	Logout

View

Employee Name	Mobile Number	E-mail	Designation	Department	Edit	Delete
Suhas	7412309650	susha@rdltech.in	Developer	RND	Edit	Delete
gaurav	7896541320	gaurav@gmail.com	Developer	RND	Edit	Delete
Santhosh Shetty	9745621038	santhosh@rdltech.in	Embedded Software Engineer	RND	Edit	Delete
sandesh	7863219405	sandesh@abc.com	Developer	RND	Edit	Delete

(This above image shows the list of users created by admin in previous step)

Edit Employee Details

Employee Name:	gaurav
Mobile Number	7896541320
Email Address	gaurav@gmail.com
Designation	Developer
Department	RND
Employee Username	gaurav
Employee Password	gaurav123

Update

(The above image shows editing profile after clicking on edit option.)

2.1.3. **Change Password:** This option enables the admin to reset the old password with a new one by entering the old username and password.

Press F11 to exit full screen

Change Password

Username	Please Enter Your Username
Old Password	Please Enter Your Old Password
New Password	Please Enter New Password

Reset

3. Employee Panel:

The objective of employee panel is to schedule meeting, cancel meeting, generating a report of all meetings taking place and to save it in form of PDF.

3.1. **Schedule Meeting:** This option is used to schedule meeting either by selecting new visitor or frequent visitor. In frequent visitor option user has to enter mobile number and some details will appear automatically as shown below:

Visitor

○ Frequent Visitor   ○ New Visitor

Visitor Name: Suhas

Mobile Number 7531246980

Email Address suhas@gmail.com

Date Of Birth 05/01/2019

Designation SE

Company Name ACC

Company Address 10th Floor Mangalore

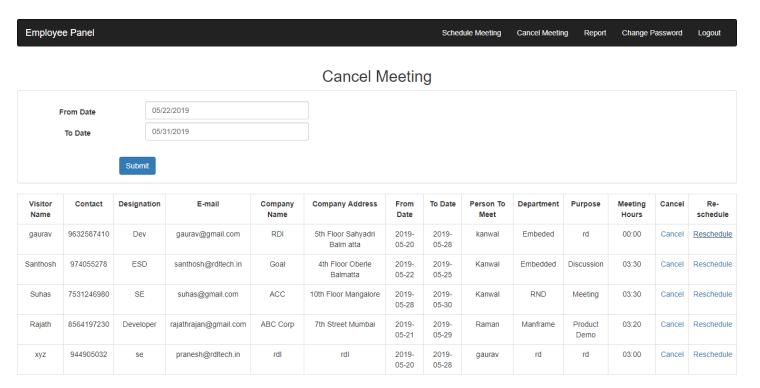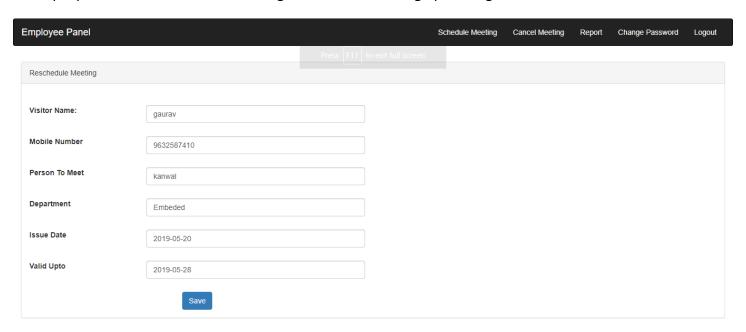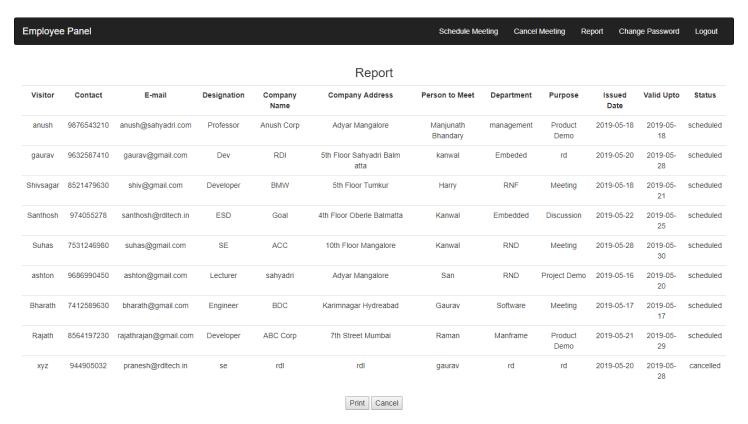**Issue Date** Please select issued date

Valid Upto Please select date of expiry

Person To Meet Please enter person's name

Department Please enter department name

Purpose Please enter the purpose of the meet

Vehicle Number Please enter the vehicle number

Materials Please enter the material being carried

Meeting Hours

[Save]

3.2. Cancel Meeting: The meeting can be re-schedule, postpone or cancelled using this option. User has to select the date in to and from fields, after submitting a list of scheduled meetings is displayed in a table as shown in the image below based on the user's choice meeting can be cancelled or re-scheduled.

Cancel Meeting

From Date 05/22/2019

To Date 05/31/2019

[Submit]

Visitor Name	Contact	Designation	E-mail	Company Name	Company Address	From Date	To Date	Person To Meet	Department	Purpose	Meeting Hours	Cancel	Re-schedule
gaurav	9632587410	Dev	gaurav@gmail.com	RDI	5th Floor Sahyadri Balm atta	2019-05-20	2019-05-28	kanwal	Embeded	rd	00:00	Cancel	Reschedule
Santhosh	974055278	ESD	santhosh@rdltech.in	Goal	4th Floor Oberle Balmatta	2019-05-22	2019-05-25	Kanwal	Embedded	Discussion	03:30	Cancel	Reschedule
Suhas	7531246980	SE	suhas@gmail.com	ACC	10th Floor Mangalore	2019-05-28	2019-05-30	Kanwal	RND	Meeting	03:30	Cancel	Reschedule
Rajath	8564197230	Developer	rajathrajan@gmail.com	ABC Corp	7th Street Mumbai	2019-05-21	2019-05-29	Raman	Manframe	Product Demo	03:20	Cancel	Reschedule
xyz	944905032	se	pranesh@rdltech.in	rdl	rdl	2019-05-20	2019-05-28	gaurav	rd	rd	03:00	Cancel	Reschedule

A sample picture is obtained after clicking on the re-scheduling option is given below

Press F11 to exit full screen

Reschedule Meeting

Visitor Name:	gaurav
Mobile Number	9632587410
Person To Meet	kanwal
Department	Embeded
Issue Date	2019-05-20
Valid Upto	2019-05-28

Save

3.3. Report: This option displays list of all the scheduled and cancelled meetings in a tabular form, upon clicking print button a dialog appears which enables to save in form of PDF.
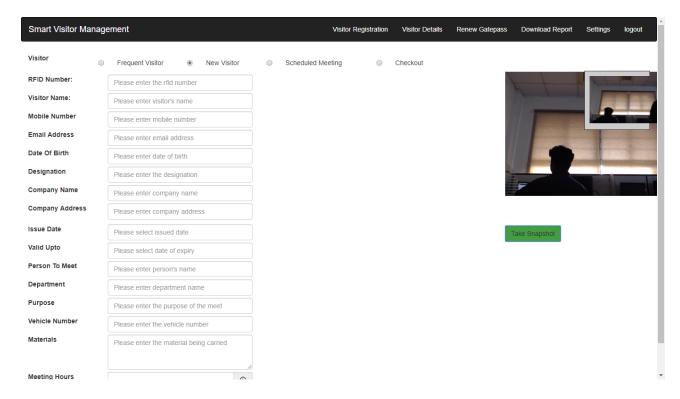
Report

Visitor	Contact	E-mail	Designation	Company Name	Company Address	Person to Meet	Department	Purpose	Issued Date	Valid Upto	Status
anush	9876543210	anush@sahyadri.in	Professor	Anush Corp	Adyar Mangalore	Manjunath Bhandary	management	Product Demo	2019-05-18	2019-05-18	scheduled
gaurav	9632587410	gaurav@gmail.com	Dev	RDI	5th Floor Sahyadri Balm atta	kanwal	Embeded	rd	2019-05-20	2019-05-28	scheduled
Shivsagar	8521479630	shiv@gmail.com	Developer	BMW	5th Floor Tumkur	Harry	RNF	Meeting	2019-05-18	2019-05-21	scheduled
Santhosh	974055278	santhosh@rdltech.in	ESD	Goal	4th Floor Oberle Balmatta	Kanwal	Embedded	Discussion	2019-05-22	2019-05-25	scheduled
Suhas	7531246980	suhas@gmail.com	SE	ACC	10th Floor Mangalore	Kanwal	RND	Meeting	2019-05-28	2019-05-30	scheduled
ashton	9686990450	ashton@gmail.com	Lecturer	sahyadri	Adyar Mangalore	San	RND	Project Demo	2019-05-16	2019-05-20	scheduled
Bharath	7412589630	bharath@gmail.com	Engineer	BDC	Karimnagar Hydreabad	Gaurav	Software	Meeting	2019-05-17	2019-05-17	scheduled
Rajath	8564197230	rajathrajan@gmail.com	Developer	ABC Corp	7th Street Mumbai	Raman	Manframe	Product Demo	2019-05-21	2019-05-29	scheduled
xyz	944905032	pranesh@rdltech.in	se	rdl	rdl	gaurav	rd	rd	2019-05-20	2019-05-28	cancelled

Print   Cancel

3.4. Change Password: This option enables the employee to reset the old password with a new one by entering the old username and password.

Change Password

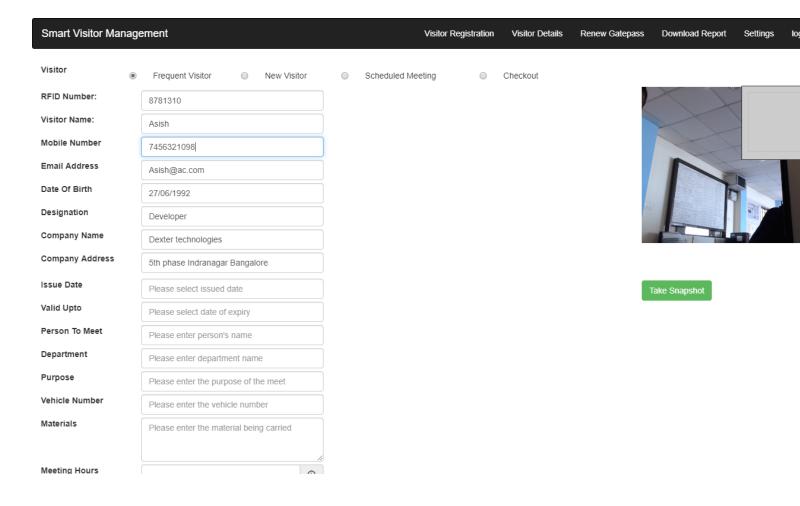|	
Username	Please Enter Your Username
Old Password	Please Enter Your Old Password
New Password	Please Enter New Password

[Reset]

4. Gate-pass Issue Authority:

Gate-pass issue authority panel registers the visitor, displays visitor details, renews gate pass, download report and also a settings is present where user can enter gate number and gate information.
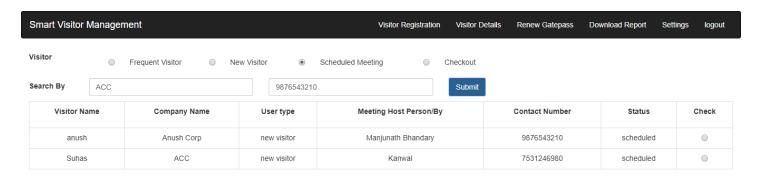
4.1. Visitor Registration: User has to register as a new visitor, an RFID card is issued which must be skipped against the reader to display the number and other details of the visitor has to entered and submitted to save it in the server.
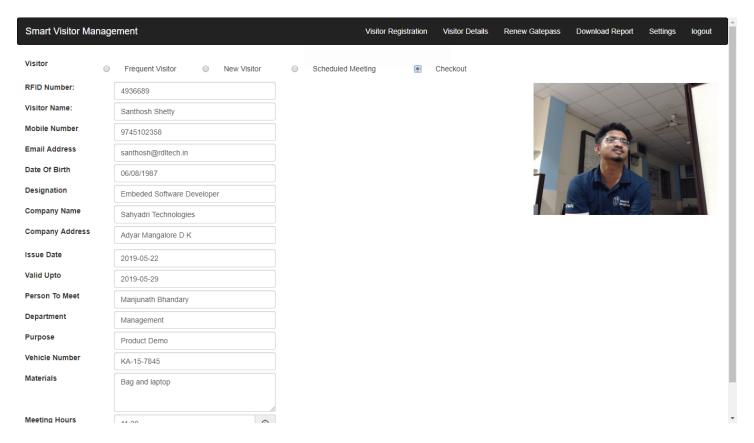
Smart Visitor Management   Visitor Registration   Visitor Details   Renew Gatepass   Download Report   Settings   logout

Visitor   ○ Frequent Visitor   ● New Visitor   ○ Scheduled Meeting   ○ Checkout

RFID Number:	Please enter the rfid number
Visitor Name:	Please enter visitor's name
Mobile Number	Please enter mobile number
Email Address	Please enter email address
Date Of Birth	Please enter date of birth
Designation	Please enter the designation
Company Name	Please enter company name
Company Address	Please enter company address
Issue Date	Please select issued date
Valid Upto	Please select date of expiry
Person To Meet	Please enter person's name
Department	Please enter department name
Purpose	Please enter the purpose of the meet
Vehicle Number	Please enter the vehicle number
Materials	Please enter the material being carried
Meeting Hours	

[Take Snapshot]

4.1.1. Frequent Visitor: if the visitor is registered previously then by entering the mobile number personal details will appear on the other fields has entered manually before submitting.
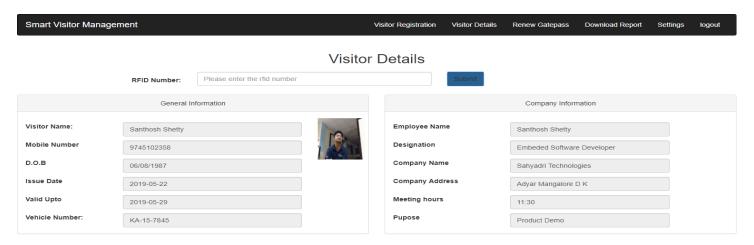
4.1.2. **Scheduled Meeting:** option user can search by company name, contact number or both options which queries from database and displays it in form of a table as shown in the image below:
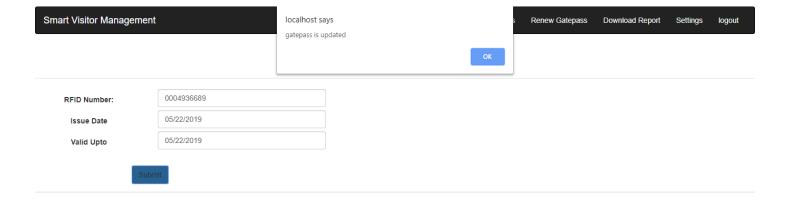

4.1.3. **Checkout:** This option displays the visitor's details when the RFID card is scanned against RFID Reader as shown in the image below.
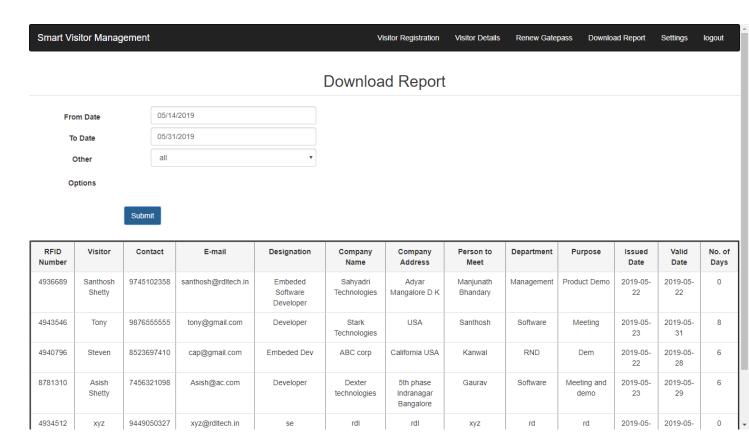
4.2. Visitor Details: Here when the card is scanned against the reader the visitor's general and company information is displayed.

4.3. Renew Gate-pass: Visitor can extend renew gate-pass by again scanning the RFID card against the reader to a new date after extending a confirmation message will appear.

localhost says

gatepass is updated

OK

RFID Number:	0004936689
Issue Date	05/22/2019
Valid Upto	05/22/2019

Submit

4.4. Download Report: User can download report of all visitors in form of PDF by specifying the date as shown below:

Smart Visitor Management   Visitor Registration   Visitor Details   Renew Gatepass   Download Report   Settings   logout

Download Report

From Date	05/14/2019
To Date	05/31/2019
Other Options	all ▼

Submit

RFID Number	Visitor	Contact	E-mail	Designation	Company Name	Company Address	Person to Meet	Department	Purpose	Issued Date	Valid Date	No. of Days
4936689	Santhosh Shetty	9745102358	santhosh@rdltech.in	Embeded Software Developer	Sahyadri Technologies	Adyar Mangalore D K	Manjunath Bhandary	Management	Product Demo	2019-05-22	2019-05-22	0
4943546	Tony	9876555555	tony@gmail.com	Developer	Stark Technologies	USA	Santhosh	Software	Meeting	2019-05-23	2019-05-31	8
4940796	Steven	8523697410	cap@gmail.com	Embeded Dev	ABC corp	California USA	Kanwal	RND	Dem	2019-05-22	2019-05-28	6
8781310	Asish Shetty	7456321098	Asish@ac.com	Developer	Dexter technologies	5th phase Indranagar Bangalore	Gaurav	Software	Meeting and demo	2019-05-23	2019-05-29	6
4934512	xyz	9449050327	xyz@rdltech.in	se	rdl	rdl	xyz	rd	rd	2019-05-	2019-05-	0

4.5. Settings Option: Here basic information about the gate information and gate number must be entered as shown below:

Settings

App Identity

Enter the application identifier

Gate Number

Please enter the gate number

Gate Information

Please enter some information about gate

Submit

Note: This project works fine on the site that has https connection and does not work on sites with http protocol.