

Apartment Visitor Management System

Project Report

By

ACKNOWLEDGEMENT

I extend my deepest appreciation to my esteemed guide, Mr. XYZ for providing me with the possibility to complete this project with the right guidance and advice.

Special gratitude I give to my respected head of the division Mr.XYZ, for allowing me to use the facilities available and also help me to coordinate my project Furthermore, I would also like to acknowledge with much appreciation the crucial role of faculty members on this occasion.

Last but not least, I would like to thank friends who help me to assemble the parts and gave a suggestion about the project.

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Abstract

Apartment Visitor Management System deals with the security provided at society premises from the unauthorized or unwanted visitors and provide entry pass to the regular visitor.

Nowadays, in most society visitor management consists of visitors scribbling their name in a paper book.

Instead, Apartment Visitor Management System will assist you the professionalized way in which you welcome your visitors. This software is a complete Visitor Management service to improve the efficiency, productivity and security.

Introduction

Introduction:-

Apartment Visitor Management system is a web-based technology that will revolutionize the way your society manages visitors and provide visitor pass to them. Visitor Management system is more important to security guards or security society. This web application provides a way to effectively control record & track society visitor traffic.

In AVMS we use PHP and MySQL database. This is the project which keeps records of visitors who visited in the Society. **AVMS has one module i.e. admin**

- **Dashboard:** In this section, admin can briefly view how many visitors visited in a particular period, total listed categories and total visitor pass created.
- **Categories:** In this section, admin can manage categories(Add/Delete).
- **New Visitors:** In this section, admin adds new visitors by filling their information in add visitors sections.
- **Manage Visitors:** In this section, admin can view and manage visitor's records. Admin also put visitors out time in the manage records section.
- **Entry Pass:** In this section, admin can manage entry pass(Create/View/Delete).
- **Search:** In this bar, admin can search a particular person by their name and phone number.
- **Visitor B/W Reports:** In this section admin can generate visitor's reports between two dates.
- **Visitor Pass B/W Reports:** In this section admin can generate visitor's pass reports between two dates.

Admin can also update his profile, change password and recover password.

Purpose:-

The purpose of developing apartment visitor management system is to computerized the tradition way of visitors. Another purpose for developing this application is to generate the report automatically.

The main aim of this application is to develop a system that effectively manages all the data related to apartment visitor which helps gate guards to maintain bulk records of visitors. The purpose is to maintain a centralized database of all visitor information. The goal is to support various functions and processes necessary to manage the data efficiently.

Scope:-

Apartment Visitor Management System project is developed as a web application and it will work over web. The project Apartment Visitor Management system includes creation of entry pass and storing the details of visitor into the system. The software has the facility to give a unique entry pass id to regular visitor like maids, milkman, washer man etc.

The Apartment Visitor Management System can be entered using a username and password. It is accessible only by an administrator. Only admin can create the pass and add visitors details. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for admin use and makes the data processing very fast.

Apartment Visitor Management System is powerful, flexible, and easy to use and is designed and developed to deliver real conceivable benefits to societies.

Requirement Specification

Hardware Configuration :

Client Side:

RAM	512 MB
Hard disk	10 GB
Processor	1.0 GHz

Server side:

RAM	1 GB
Hard disk	20 GB
Processor	2.0 GHz

Software Requirement:

Client Side:

Web Browser	Google Chrome or any compatible browser
Operating System	Windows or any equivalent OS

Server Side:

Web Server	APACHE
Server side Language	PHP5.6 or above version
Database Server	MYSQL
Web Browser	Google Chrome or any compatible browser
Operating System	Windows or any equivalent OS

APACHE

The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

The Apache HTTP Server ("httpd") was launched in 1995 and it has been the most popular web server on the Internet since April 1996. It has celebrated its 20th birthday as a project in February 2015.

PHP

- PHP stands for PHP: Hypertext Preprocessor.
- PHP is a server-side scripting language, like ASP.

- PHP scripts are executed on the server.
- PHP supports many databases (MYSQL, Informix, Oracle, Sybase, Solid, Generic ODBC, etc.).
- PHP is open source software.
- PHP is free to download and use.

MYSQL

- MYSQL is a database server
- MYSQL is ideal for both small and large applications
- MYSQL supports standard SQL
- MYSQL compiles on a number of platforms
- MYSQL is free to download and use
- How to access MySQL:

<http://localhost/phpmyadmin>

Analysis and Design

Analysis:

In present all visitor work done on the paper. The whole year visitor is stored in the registers. We can't generate reports as per our requirements because its take more time to calculate the visitors report.

Disadvantage of present system:

- **Not user friendly:** The present system not user friendly because data is not stored in structure and proper format.
- **Manual Control:** All report calculation is done manually so there is a chance of error.
- **Lots of paper work:** Visitors maintain in the register so lots of paper require storing details.
- **Time consuming**

Design Introduction:

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization.

Once the software requirements have been analyzed and specified the software design involves three technical activities - design, coding, implementation and testing that are required to build and verify the software.

The design activities are of main importance in this phase, because in this activity, decisions ultimately affecting the success of the software implementation and its ease of maintenance are made. These decisions have the final bearing upon reliability and maintainability of the system. Design is the only way to accurately translate the customer's requirements into finished software or a system.

Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Software design is conducted in two steps. Preliminary design is concerned with the transformation of requirements into data

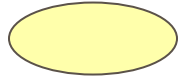
UML Diagrams:

Actor:

A coherent set of roles that users of use cases play when interacting with the use `cases.



Use case: A description of sequence of actions, including variants, that a system performs that yields an observable result of value of an actor.



UML stands for Unified Modeling Language. UML is a language for specifying, visualizing and documenting the system. This is the step while developing any product after analysis. The goal from this is to produce a model of the entities involved in the project which later need to be built. The representation of the entities that are to be used in the product being developed need to be designed.

USECASE DIAGRAMS:

Use case diagrams model behavior within a system and helps the developers understand of what the user require. The stick man represents what's called an actor.

Use case diagram can be useful for getting an overall view of the system and clarifying who can do and more importantly what they can't do.

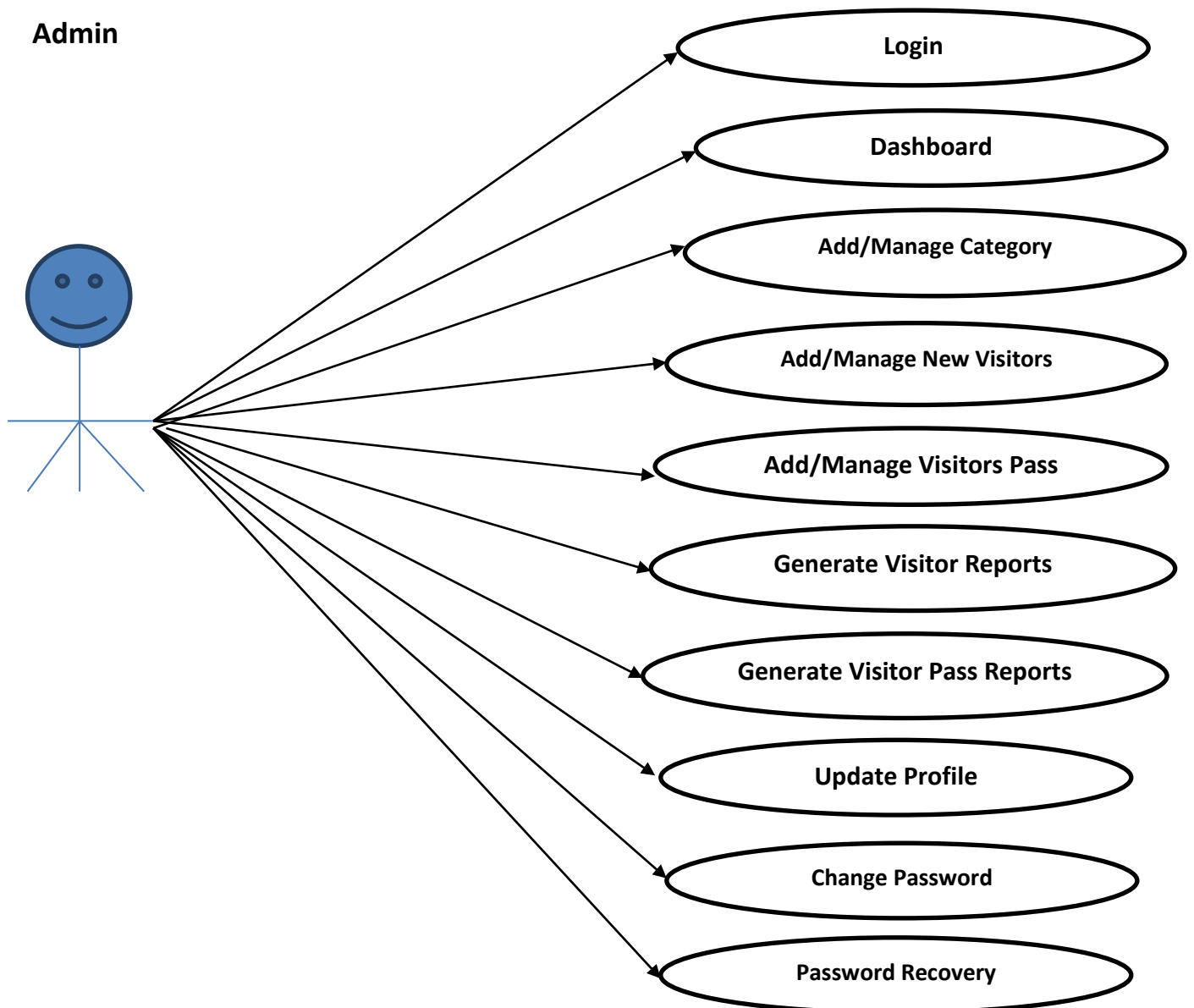
Use case diagram consists of use cases and actors and shows the interaction between the use case and actors.

- The purpose is to show the interactions between the use case and actor.
- To represent the system requirements from user's perspective.
- An actor could be the end-user of the system or an external system.

USECASE DIAGRAM: A Use case is a description of set of sequence of actions. Graphically it is rendered as an ellipse with solid line including only its name. Use case diagram is a behavioral diagram that shows a set of use cases and actors and their relationship. It is an association between the use cases and actors. An actor represents a real-world object. Primary Actor – Sender, Secondary Actor Receiver.

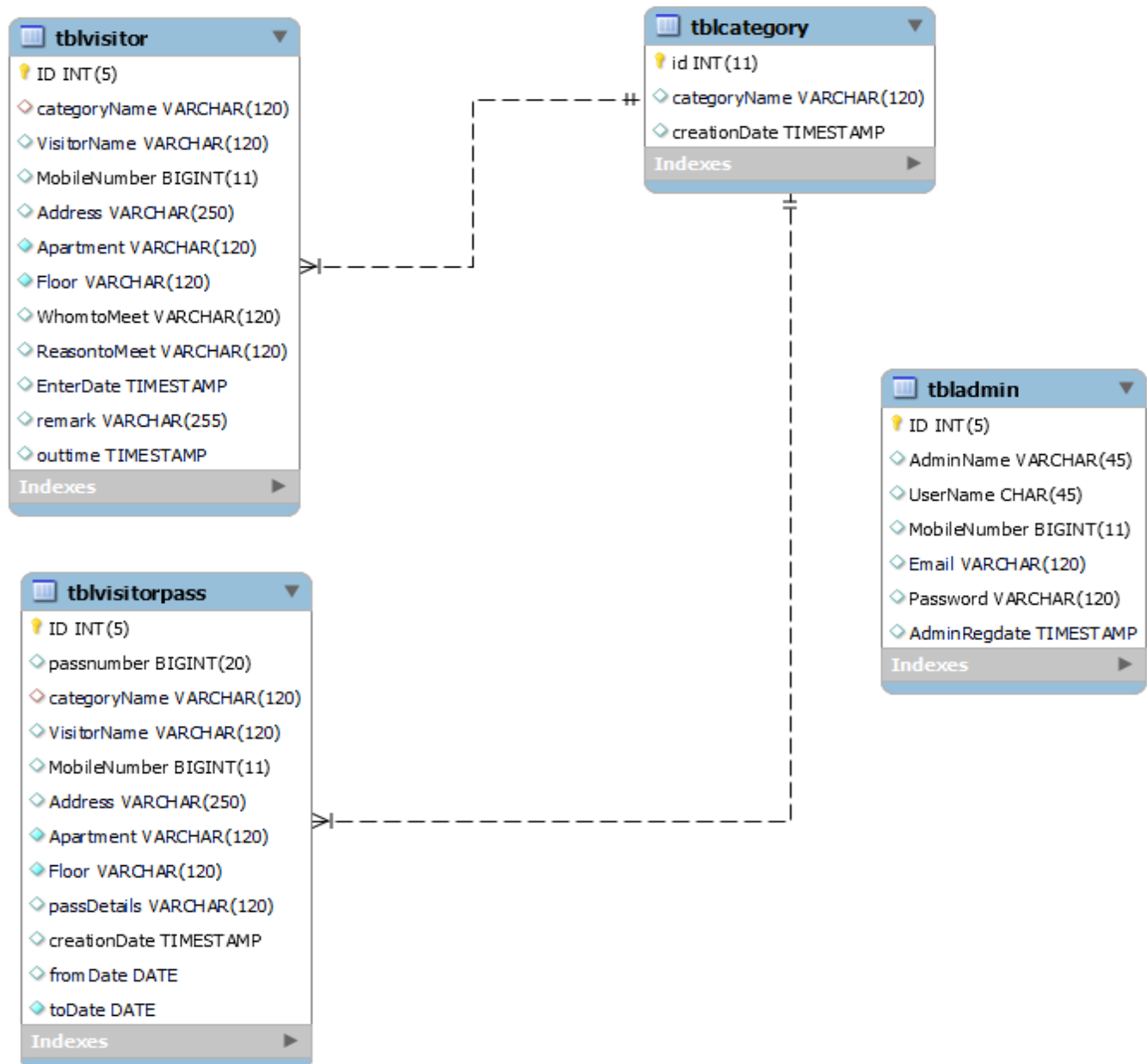
Use Case Diagrams:

Admin



Class Diagram:

A description of set of objects that share the same attributes operations, relationships, and semantics



ER Diagram:

The Entity-Relationship (ER) model was originally proposed by Peter in 1976 [Chen76] as a way to unify the network and relational database views. Simply stated the ER model is a conceptual data model that views the real world as entities and relationships. A basic component of the model is the Entity-Relationship diagram which is used to visually represent data objects. Since Chen wrote his paper the model has been extended and today it is commonly used for database design for the database designer, the utility of the ER model is:

- It maps well to the relational model. The constructs used in the ER model can easily be transformed into relational tables.
- It is simple and easy to understand with a minimum of training. Therefore, the model can be used by the database designer to communicate the design to the end user.
- In addition, the model can be used as a design plan by the database developer to implement a data model in specific database management software.

ER Notation

There is no standard for representing data objects in ER diagrams. Each modeling methodology uses its own notation. The original notation used by Chen is widely used in academics texts and journals but rarely seen in either CASE tools or publications by non-academics. Today, there are a number of notations used; among the more common are Bachman, crow's foot, and IDEFIX.

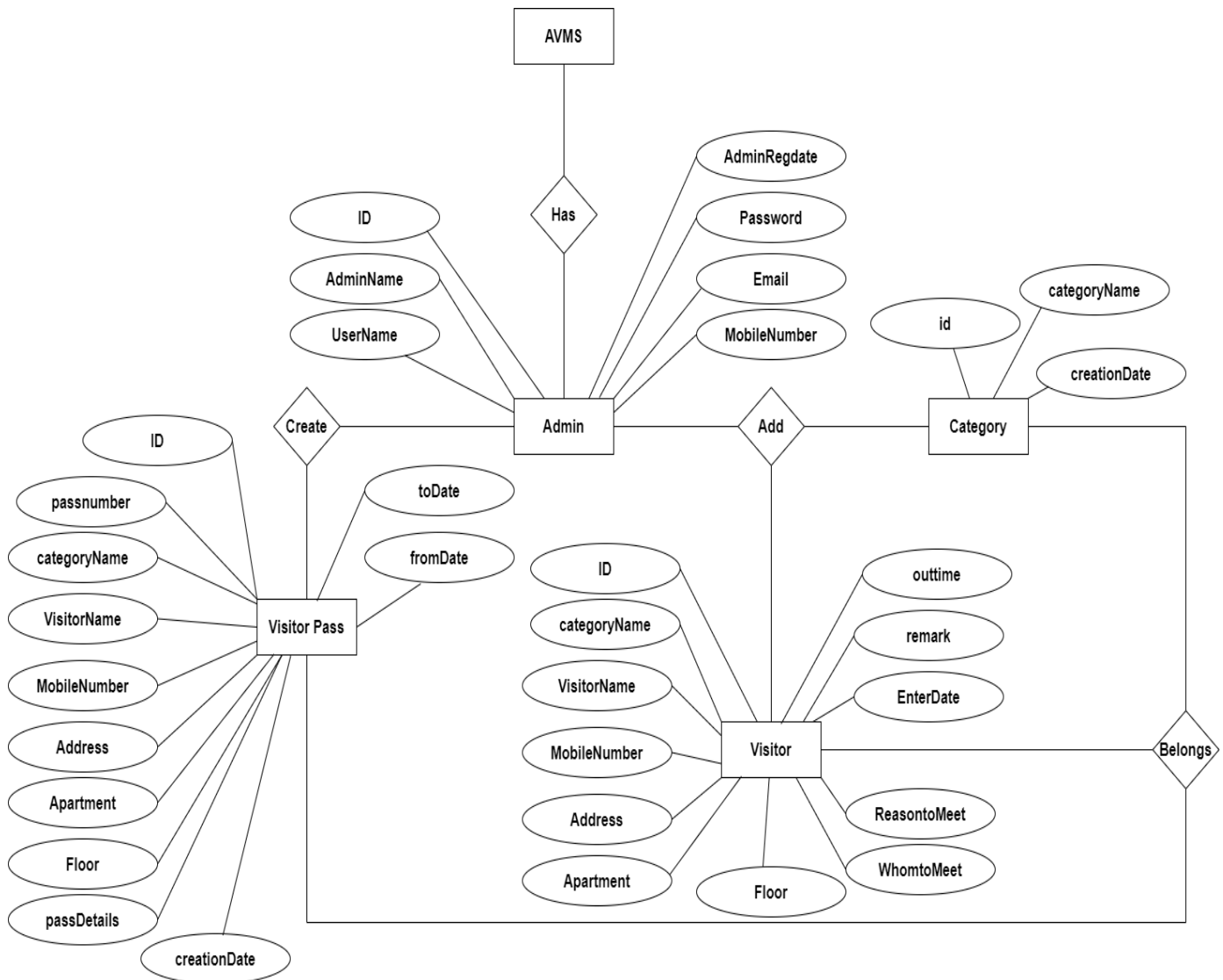
All notational styles represent entities as rectangular boxes and relationships as lines connecting boxes. Each style uses a special set of symbols to represent the

cardinality of a connection. The notation used in this document is from Martin.

The symbols used for the basic ER constructs are:

- **Entities** are represented by labeled rectangles. The label is the name of the entity. Entity names should be singular nouns.
- **Relationships** are represented by a solid line connecting two entities. The name of the relationship is written above the line. Relationship names should be verbs
- **Attributes**, when included, are listed inside the entity rectangle. Attributes which are identifiers are underlined. Attribute names should be singular nouns.
- **Cardinality** of many is represented by a line ending in a crow's foot. If the crow's foot is omitted, the cardinality is one.

Existence is represented by placing a circle or a perpendicular bar on the line. Mandatory existence is shown by the bar (looks like a 1) next to the entity for an instance is required. Optional existence is shown by placing a circle next to the entity that is optional.



Data Flow Diagrams

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It can be manual, automated, or a combination of both.


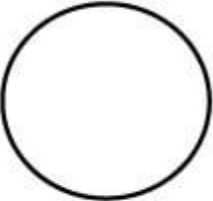

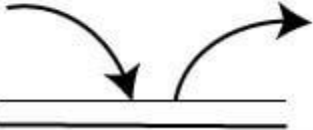
It shows how data enters and leaves the system, what changes the information, and where data is stored.

The objective of a DFD is to show the scope and boundaries of a system as a whole. It may be used as a communication tool between a system analyst and any person who plays a part in the order that acts as a starting point for redesigning a system. The DFD is also called as a data flow graph or bubble chart.

The following observations about DFDs are essential:

1. All names should be unique. This makes it easier to refer to elements in the DFD.
2. Remember that DFD is not a flow chart. Arrows in a flow chart that represents the order of events; arrows in DFD represents flowing data. A DFD does not involve any order of events.
3. Suppress logical decisions. If we ever have the urge to draw a diamond-shaped box in a DFD, suppress that urge! A diamond-shaped box is used in flow charts to represent decision points with multiple exists paths of which the only one is taken. This implies an ordering of events, which makes no sense in a DFD.
4. Do not become bogged down with details. Defer error conditions and error handling until the end of the analysis.

Standard symbols for DFDs are derived from the electric circuit diagram analysis and are shown in fig:

Symbol	Name	Function
	Data flow	Used to Connect Processes to each other, to sources or Sinks; the arrow head indicates direction of data flow.
	Process	Performs Some transformation of Input data to yield output data.
	Source of Sink (External Entity)	A Source of System inputs or Sink of System outputs.
	Data Store	A repository of data; the arrow heads indicate net inputs and net outputs to store.

Symbols for Data Flow Diagrams

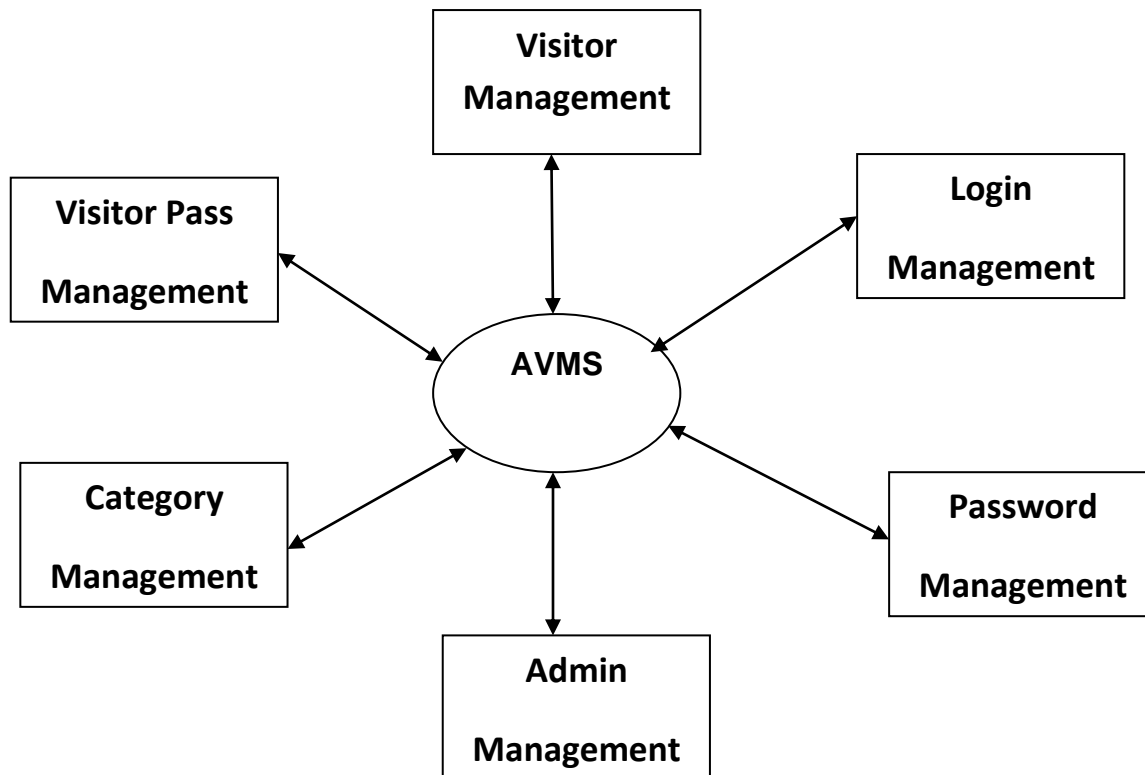
Circle: A circle (bubble) shows a process that transforms data inputs into data outputs.

Data Flow: A curved line shows the flow of data into or out of a process or data store.

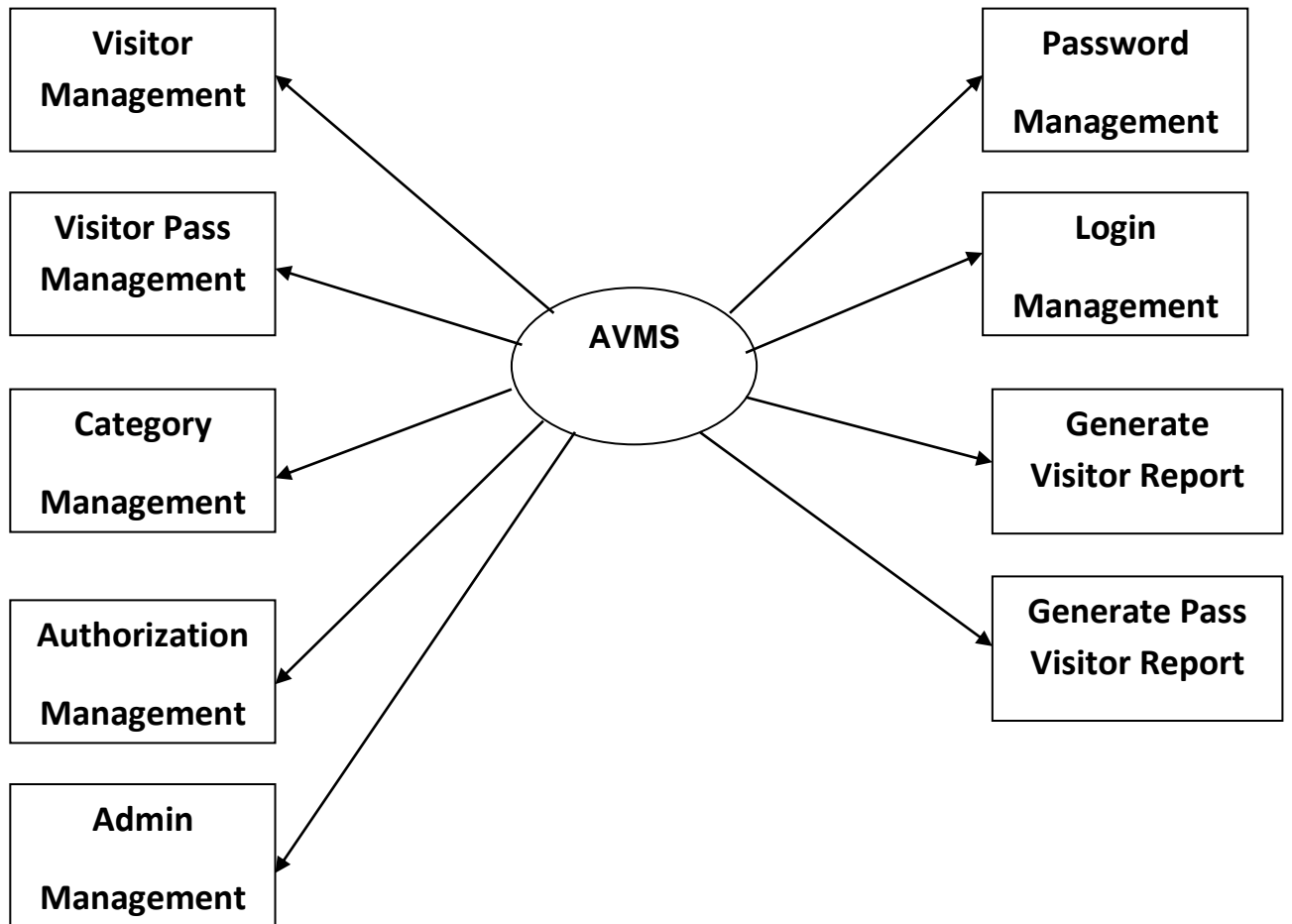
Data Store: A set of parallel lines shows a place for the collection of data items. A data store indicates that the data is stored which can be used at a later stage or by the other processes in a different order. The data store can have an element or group of elements.

Source or Sink: Source or Sink is an external entity and acts as a source of system inputs or sink of system outputs.

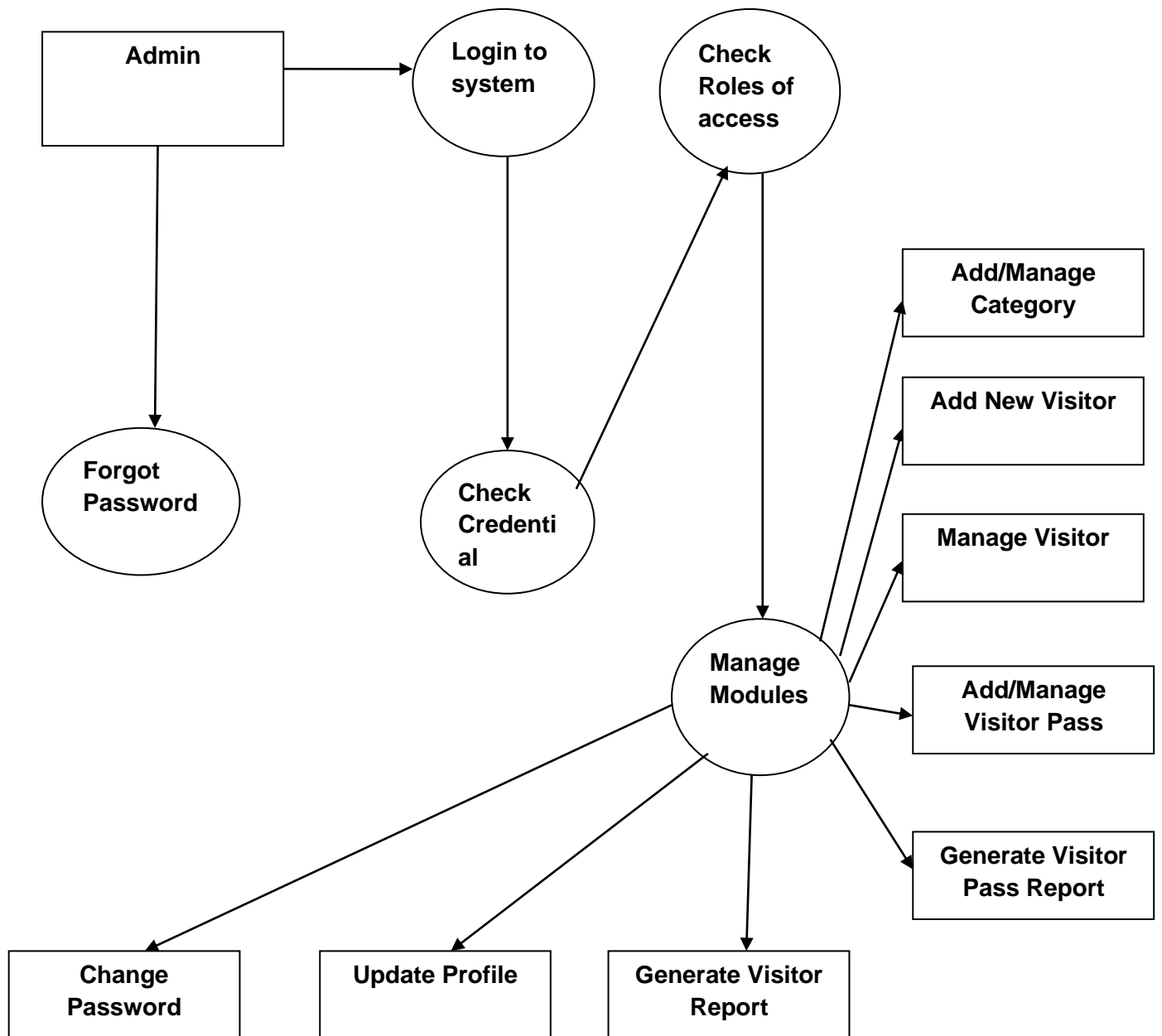
Zero Level DFD



First Level DFD




Second Level DFD



MySQL Data Tables:

Admin Table:(Table name is admin)

This table store admin personal and login details.


#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 	int(5)			No	None		AUTO_INCREMENT
2	AdminName	varchar(45)	latin1_swedish_ci		Yes	NULL		
3	UserName	char(45)	latin1_swedish_ci		Yes	NULL		
4	MobileNumber	bigint(11)			Yes	NULL		
5	Email	varchar(120)	latin1_swedish_ci		Yes	NULL		
6	Password	varchar(120)	latin1_swedish_ci		Yes	NULL		
7	AdminRegdate	timestamp			Yes	current_timestamp()		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	ID	1	A	No	

Visitor Table: (Table name is tblvisitor)

This table store the visitor details and admin remark


#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 	int(5)			No	None		AUTO_INCREMENT
2	categoryName	varchar(120)	latin1_swedish_ci		Yes	NULL		
3	VisitorName	varchar(120)	latin1_swedish_ci		Yes	NULL		
4	MobileNumber	bigint(11)			Yes	NULL		
5	Address	varchar(250)	latin1_swedish_ci		Yes	NULL		
6	Apartment	varchar(120)	latin1_swedish_ci		No	None		
7	Floor	varchar(120)	latin1_swedish_ci		No	None		
8	WhomtoMeet	varchar(120)	latin1_swedish_ci		Yes	NULL		
9	ReasontoMeet	varchar(120)	latin1_swedish_ci		Yes	NULL		
10	EnterDate	timestamp			Yes	current_timestamp()		
11	remark	varchar(255)	latin1_swedish_ci		Yes	NULL		
12	outtime	timestamp			Yes	NULL		ON UPDATE CURRENT_TIMESTAMP()

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	ID	3	A	No	

Category Table: (Table name is tblcategory)

This table stores the category of visitor.


#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id 	int(11)			No	None		AUTO_INCREMENT
2	categoryName	varchar(120)	utf8mb4_general_ci		Yes	NULL		
3	creationDate	timestamp			Yes	current_timestamp()		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	9	A	No	

Visitor Pass Table: (Table name is tblvisitorpass)

This table stores the details of visitor pass.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	ID 	int(5)			No	None		AUTO_INCREMENT
2	passnumber	bigint(20)			Yes	NULL		
3	categoryName	varchar(120)	latin1_swedish_ci		Yes	NULL		
4	VisitorName	varchar(120)	latin1_swedish_ci		Yes	NULL		
5	MobileNumber	bigint(11)			Yes	NULL		
6	Address	varchar(250)	latin1_swedish_ci		Yes	NULL		
7	Apartment	varchar(120)	latin1_swedish_ci		No	None		
8	Floor	varchar(120)	latin1_swedish_ci		No	None		
9	passDetails	varchar(120)	latin1_swedish_ci		Yes	NULL		
10	creationDate	timestamp			Yes	current_timestamp()		
11	fromDate	date			Yes	NULL		
12	toDate	date			No	None		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	ID	2	A	No	
ID	BTREE	No	No	ID	2	A	No	

Implementation and System Testing

After all phase have been perfectly done, the system will be implemented to the server and the system can be used.

System Testing

The goal of the system testing process was to determine all faults in our project .The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

1. Unit testing

2. Integration testing

UNIT TESTING

Unit testing is commenced when a unit has been created and effectively reviewed .In order to test a single module we need to provide a complete environment i.e. besides the section we would require

- The procedures belonging to other units that the unit under test calls
- Non local data structures that module accesses
- A procedure to call the functions of the unit under test with appropriate parameters

1. Test for the admin module

- **Testing admin login form**-This form is used for log in of administrator of the system. In this form we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask the details.
- **Report Generation:** admin can generate report from the main database.

INTEGRATION TESTING

In the Integration testing we test various combination of the project module by providing the input.

The primary objective is to test the module interfaces in order to confirm that no errors are occurring when one module invokes the other module.

Evaluation (Project Outputs)

Project URL: <http://localhost/avms>

Login Page

Apartment Visitor Management System
(AVMS)

User Name

Password

[Forgotten Password?](#)

SIGN IN

Forgot Password

Apartment Visitor Management System
(AVMS)

Password Recovery

Email Address

Mobile Number

RESET

[Sign in](#)

Reset Password

Apartment Visitor Management System
(AVMS)

Reset your Password

New Password

Now Password

Confirm Your Password

Confirm Your Password


RESET

Sign in

Dashboard

AVMS

Search Visitor by names & mobile number...

 Admin User

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Visitors B/w Dates

Pass B/w Dates

1
Todays Visitors fgdfg

2
Yesterday Visitors

3
Last 7 Days Visitors

3
Total Visitors Till Date

9
Listed categories

2
Total Pass Created

Apartment Visitor Management System.

Admin Profile

AVMS

Search Visitor by names & mobile number...

Admin User

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Vistors B/w Dates

Pass B/w Dates

Update Admin Profile

Admin Name

Admin user

Email Input

admin@gmail.com

Phone Number

7898799797

User Name

admin

Admin Registration date

2022-12-05 11:56:14

Update

Apartment Visitor Management System.

Change Password

AVMS

Search Visitor by names & mobile number...

Admin User

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Vistors B/w Dates

Pass B/w Dates

Change Admin Password

Current Password

New Password

Confirm Password

Change

Apartment Visitor Management System.

Manage Category

AVMS

Search Visitor by names & mobile number...

Admin User

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Visitors B/w Dates

Pass B/w Dates

Add New Category

Category Name

Category Name

Add

SNO	Category Name	Creation Date	Action
1	Maid	2022-12-04 23:39:59	Delete
2	NewsPaper	2022-12-04 23:40:12	Delete
3	Cook	2022-12-04 23:40:26	Delete
4	Milkman	2022-12-04 23:40:55	Delete
5	Driver	2022-12-04 23:41:08	Delete

Add New Visitor

AVMS

Search Visitor by names & mobile number...

Admin User

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Visitors B/w Dates

Pass B/w Dates

Add New Visitors

Category

select

Visitor Name

Visitor Name

Phone Number

Mobile Number

Address

Enter Visitor Address...

Apartment no.

Apartment no.

Floor/Wing

floor

Whom to Meet

Whom to Meet

Reason To Meet

Reason To Meet

Add

Apartment Visitor Management System.

Manage Visitor

AVMS

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Visitors B/w Dates

Pass B/w Dates

Search Visitor by names & mobile number...

Admin User

Manage Visitors

S.NO	Visitor Name	Category	Apartment No	Whom To Visit	Action
1	Amit Kumar	Guest	Q707	Anuj Kumar	<div>View Details</div>
2	Sunny	Milkman	H911	Amit	<div>View Details</div>
3	Sukhdev Singh	Driver	T501	Amit Kumar	<div>View Details</div>

Apartment Visitor Management System.

Visitor Detail

AVMS

Search Visitor by names & mobile number...

Admin User

Visitor Details

Visitor Details

Visitor Name	Sunny	Category	Milkman
Mobile Number	1425363625	Address	NA

Whom to Meet Details

Apartment no	H911	Floor	9
Whom to Meet	Amit	Reason to Meet	Milk Distribution
Visitor Enter Time	2022-12-04 23:57:21		
Outing Remark :	<div></div>		


Out

Apartment Visitor Management System.

Visitor Detail after Update

AVMS

Search Visitor by names & mobile number...

 Admin User

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Visitors B/w Dates

Pass B/w Dates

Visitor Details

Visitors Remark has been Updated.


Visitor Details			
Visitor Name	Sunny	Category	Milkman
Mobile Number	1425363625	Address	NA
Whom to Meet Details			
Apartment no	H911	Floor	9
Whom to Meet	Amit	Reason to Meet	Milk Distribution
Visitor Enter Time	2022-12-04 23:57:21		
Outing Remark	Your Milkman has been out	Out Time	2022-12-05 11:19:09

Apartment Visitor Management System.

Create Entry Pass

AVMS

Search Visitor by names & mobile number...

 Admin User

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Visitors B/w Dates

Pass B/w Dates

Create New Pass

Category

select

Visitor Name

Visitor Name

Phone Number

Mobile Number

Address

Enter Visitor Address...

Apartment no.

Apartment no.

Floor/Wing

floor

From Date

dd-mm-yyyy

To Date

dd-mm-yyyy

Pass Description

Pass Description

Create

Apartment Visitor Management System.

Manage Entry Pass

AVMS

Search Visitor by names & mobile number...

Admin User

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Vistors B/w Dates

Pass B/w Dates

Manage Passes

S.NO	Pass No.	Visitor Name	Category	Apartment No	Action
1	94395973	Amit	Car Cleaner	A512	<div>View DetailsDelete</div>
2	94395972	Savita	Maid	Q707	<div>View DetailsDelete</div>

Apartment Visitor Management System.

View detail of entry pass

AVMS

Search Visitor by names & mobile number...

Admin User

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Vistors B/w Dates

Pass B/w Dates

#94395973 Pass Details

Visitor Details

Pass Number	94395973		
Visitor Name	Amit	Category	Car Cleaner
Mobile Number	1414253625	Address	NA

Pass Details

Apartment no	A512	Floor	5
From Date	2022-12-06	To Date	2023-01-31
Pass Description	For Car Cleaning		
Pass Creation Date	2022-12-05 00:31:30		

Print the Pass

Apartment Visitor Management System.

Between Dates Reports

AVMS

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Visitors B/w Dates

Pass B/w Dates

Search Visitor by names & mobile number...

Admin User

Between Dates Reports

From Date

dd-mm-yyyy

To Date

dd-mm-yyyy

Submit

Apartment Visitor Management System.

View Details of Between Dates Report

AVMS

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Visitors B/w Dates

Pass B/w Dates

Search Visitor by names & mobile number...

Admin User

Between Dates Reports

Report from 2022-12-01 to 2022-12-05

S.NO	Visitor Name	Category	Contact Number	Whom To Meet	Action
1	Amit Kumar	Guest	1212121233	Anuj Kumar	<button>View</button>
2	Sunny	Milkman	1425363625	Amit	<button>View</button>
3	Sukhdev Singh	Driver	1425362514	Amit Kumar	<button>View</button>

Apartment Visitor Management System.

Between Dates Report of Entry Pass

AVMS

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Visitors B/w Dates

Pass B/w Dates

Search Visitor by names & mobile number...

Admin User

Pass Between Dates Reports

From Date

dd-mm-yyyy

To Date

dd-mm-yyyy

Submit

Apartment Visitor Management System.

View Details Between Dates Report of Entry Pass

AVMS

Dashboard

Categories

New Visitor

Manage Visitors

Entry Pass

Visitors B/w Dates

Pass B/w Dates

Search Visitor by names & mobile number...

Admin User

Pass Between Dates Reports

Report from 2022-12-01 to 2022-12-05

S.NO	Pass No.	Visitor Name	Category	Contact Number	Action
1	94395973	Amit	Car Cleaner	1414253625	View Details
2	94395972	Savita	Maid	1233211230	View Details

Apartment Visitor Management System.

Conclusion

This Application provides a computerized version of Apartment Visitor Management System which will benefit the society of gate guards who have to maintain a bulky and very hard to maintain record books for all visit who visit in the society for various reasons.

It makes entire process online and can generate reports. It has a facility of staff's login where staff can fill the visitor details and generate report.

The Application was designed in such a way that future changes can be done easily. The following conclusions can be deduced from the development of the project.

- Automation of the entire system improves the productivity.
- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The System has adequate scope for modification in future if it is necessary.

References

For PHP

- <https://www.w3schools.com/php/default.asp>
- <https://www.sitepoint.com/php/>
- <https://www.php.net/>

For MySQL

- <https://www.mysql.com/>
- <http://www.mysqltutorial.org>

For XAMPP

- <https://www.apachefriends.org/download.html>