

A
PROJECT REPORT
On
“MARC HRMS”



of

**Submitted in partial fulfillment of their requirements for the award of the
Three Year Diploma in**

Branch Name (CS)

Under the supervision of

**Er. Rohit Kumar
(Project Manager)**

Softpro India Computer Technologies (P) Ltd.

Lucknow (UP)

Submitted By:-

Student Name

Kaushtubh Srivastava

Submitted To:-

Govt.Polytechnic Premdhar Patti,Pratapgarh

PREFACE

"Necessity is Mother of All Inventions"

Summer training is an important part of the engineering curriculum. The Diploma course summer training helps a student in getting acquainted with the manner in which his/her knowledge is being practically used outside his/her institute and this is normally different from what he/she has learnt from books. Hence, when the student switches from the process of learning to that of implementing his/her knowledge, he/she finds an abrupt change. This is exactly why summer training session during the Diploma curriculum becomes all the more important. Summer training is prescribed for the student of Polytechnic Colleges as a part of the three-year diploma course of engineering by the Board of Technical Education. We are required to undergo summer training for a period of 4-6 weeks after the completion of the 2nd year.

This training report describes in detail the training after the 2nd year session, which I completed at ***Softpro India Computer Technologies (P) Ltd.*** This report also gives the information about the organization and its working along with the project undertaken in the training period. The fundamental step used in **SDLC** process is based on the ISO 9001 guidelines. My aim was to follow the ISO guidelines and develop a perfect system.

The system development was organized into 5 major parts:

- 1. Requirement Gathering**
- 2. Documentation/Design**
- 3. Development**
- 4. Coding**
- 5. Testing**

ACKNOWLEDGEMENT

I would like to express my deep and sincere gratitude to my supervisor **Er. Rohit Kumar, Project Manager** (Softpro India Computer Technologies (P) Ltd.), who gave me his full support and encouraged me to work in an innovative and challenging project for Educational field. His wide knowledge and logical thinking gave me right direction all the time.

I am deeply grateful to my project coordinator for his/her help and support provided at every step of the project. Last but not the least, I thank to all employees of **Softpro India Computer Technologies (P) Ltd.** for their support and co-operation.

Student Name

Kaushtubh Srivastava



SPI/2019/VT-19/.....

COMPLETION CERTIFICATE

This is to certify that Mr. **Kaushtubh Srivastav** of **Diploma CSE** from **Govt.Polytechnic Premdhar Patti Pratapgarh** was working on the project entitled "**Marc HRMS**" in Softpro India Computer Technologies Pvt. Ltd. He was engaged with us during **25 June to 10 July** for a period of **45 days**.

He has done an excellent job during his engagement with the Software Development & Testing Division of the company. He has completed his project during the training tenure. His performance has been good and satisfactory.

I would like to take this opportunity to express my appreciation to Mr. **Kaushtubh Srivastava** for his work and wish him all the very best for his future endeavors.

Regards,

Ms. Yashi Asthana
CEO
Softpro India Computer Technologies (P) Ltd.
Lucknow (U.P.)

DECLARATION

This is to certify that the project report entitled "**Marc HRMS**" is done by me is an authentic work carried out for the partial fulfillment of the requirements for the award of the Diploma in "**CSE**" under the guidance of **Er. Rohit Kumar**. The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief.

Student Name

Kaushtubh Srivastava

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Introduction of The Client

Marc Laboratories Pvt. Ltd. is privately held pharmaceutical companies in India, headquartered at Lucknow, in the state of Uttar Pradesh.

Over the last three decades, it has been developing and manufacturing pharmaceutical products and selling and distributing these in India. An integrated healthcare solutions provider with pharmaceutical product basket, it caters to a wide range of therapeutic areas that include orthopedics, gynaecology, cardiovascular, gastrointestinal, analgesics, hematinic, anti-infective, antibiotics, and antidiabetics and immunologicals. The company focuses on providing high quality, appropriately priced products to its customers. Marc Laboratories has a multilingual workforce of more than thousand employees.

The company has Manufacturing establishment in Baddi, Himanchal Pradesh and Gurgaon, Haryana.

The company has state-of-the-art manufacturing facilities conforming to the most stringent international WHO-GMP norms. Spread over Two Lac sq.ft. of land, Marc Laboratories' manufacturing facility at Baddi, Himanchal Pradesh is the cynosure of all eyes, well equipped with world-class production facilities.

A responsible corporate conscious of its duty towards various sections of the society; Marc Laboratories nurtures young talents and believes in bringing talent to its best.

Mission

To become the most valued pharma partner in the pharma world by continuous research and development and manufacturing a wide range of pharmaceutical products complying to the highest regulatory standards.

Overview of Organization

Softpro India Computer Technologies (P) Ltd. is a software consulting firm provides a full-range of software solution, web design and development services for start-up to well-established companies.

Technologies are transcending boundaries and their volatility is putting stringent demands on the time and mind-space of techno-professionals. At SPG, we update ourselves with technologies even before they become norms and master them long before they become redundant. That's why we are on the roster of clients from across the continents. Come to think of it, we have engineered ourselves to be at the very forefront in Web based technology. Our core competencies span a spectrum of web-intensive services that range from website designing to robust backend management.

Objectives

The purpose of Human Resource Management System is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/ information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Product and Component based.

1. Creating and Changing Issues at ease.
2. Query Issue list to any depth.
3. Reporting and Charting in more comprehensive way.
4. User Accounts to control the access and maintain security.
5. Simple Status and Resolutions.
6. Multi Level priorities and Severities.
7. Targets and Milestones for guiding the programmers.
8. Attachments and additional comments for more information.
9. Robust database back-end.
10. Various levels of reports available with a lot of filter criteria's.
11. It contains better storage capacity.
12. Accuracy in work
13. Easy and fast retrieval of information.
14. Well Designed reports.
15. Decrease the load of the person involve in existing manual system.
16. Work becomes very speedy.
17. Easy update information.

Problem Definition

In this section we shall discuss the limitation and drawback of the existing system that forced us to take up this project. Really that work was very typical to manage the daily errors free records and adding or removing any node from server. This problem produces a need to change the existing system. Some of these shortcomings are being discussed below: -

● Low Functionality

With the existing system, the biggest problem was the low functionality. The problem faced hampered the work. For small task like adding any new node to server or deleting a node or keeping daily record we have to appoint minimum two or three employee.

● Erroneous Input and Output

In the existing system, humans performed all the tasks. As in the human tendency, error is also a possibility. Therefore, the inputs entered by the person who is working in the Company, in the registers may not be absolutely foolproof and may be erroneous. As a result of wrong input, the output reports etc. Will also be wrong which would in turn affect the performance.

● Portability Problem

System that existed previously was manual. As a result, the system was less portable. One has to carry the loads of many registers to take the data from one place to another. A big problem was that the system was less flexible and if we wanted to calculate yearly or monthly maintenance report or efficiency report, then it was a big headache.

● Security-

Security concerns were also one of the motives of the Company for the need of software. In the registers, the data is not secure as anybody can tamper with the data written in the registers. While in this software, just a password makes it absolutely secure from the reach of unauthorized persons.

● Data Redundancy

In the case of manual system, the registers are maintained in which, a lot of data is written.

● Processing Speed

In manual system maintaining a register and performing the necessary calculation has proved to be a troublesome job, which takes a lot of time and may affect the performance of the Company. But with this software we can have all the tasks performed in a fraction of second by a single click thus making the troublesome job much easier.

● Manual Errors

When a number of tough tasks are prepared by the humans like preparation of reports, performing long calculation then some human error are obvious due to a number of factors like mental strain, tiredness etc. But as we all know that computer never get tired irrespective of the amount of work it has to do. So this software can nullify the probability of manual error that improve the performance.

● Complexity in Work

In manual system whenever a record is to be updated or to be deleted a lot of cutting and overwriting needs to be done on the registers that are concerned that are deleted or updated record, which makes the work very complex.

Existing System Description

The existing system of Marc HRMS is to manage the relationship with Admin members by storing the Employee data in registers. The existing system has following drawbacks:

- Time Consuming
- Manual Errors
- Complexity
- Low Security
- Data Redundancy
- Portability
- No more helpful to improve business.

Proposed System

This new Human Resource Management System is a web base application developed in PHP. This application is best suitable for real time human resource needs. It has a lot of functionalities which makes the HR manager's task easier. Admin of the system has full right to control every module in the system. This system also generates various MIS reports which are very useful to HR manager for better human resource utilization. Admin can also check each employee's individual performance. This application is a general application. Any organization can adopt it for better management of its human resource.

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

- Security of data
- Ensure data accuracy's
- Proper control of higher officials.
- Minimize time needed for the various processing.
- Greater efficiency.
- Better service.
- User friendliness and interactive.
- Minimum time required.

System Analysis

Objective:

Human Resource Management System, as described above, can lead to error free, secure, reliable, and fast management system. It can assist the user to concentrate on their other activities rather than concentrate on the record keeping. Thus it will help organization in better utilization of resources .The organization can maintain computerized records without redundant entries. That means that one need not to be distracted by information that is not relevant, while being able to reach the information.

The aim to automate its existing manual system by the help of computerized equipment's and full- fledged computer software ,fulfilling their requirements , so that their valuable data/information can be stored for longer period with easy assessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the client.

Product and Component based.

1. Creating and Changing Issues at ease.
2. Query Issue list to any depth.
3. Reporting and Charting in more comprehensive way.
4. User Accounts to control the access and maintain security.
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Phases:

System Development Life Cycle (SDLC) mainly consists of the following 7 phases which can be detailed:-

Preliminary Investigation: -

This is the first phase of the system development life cycle. In this phase we tend to find out the needs of the client –what exactly does the client want? Before the development of any system the important point is to know the needs, objectives and scope of the system.

Feasibility Study: -

Feasibility study is the second step of the system development life cycle. Things are always easy at the beginning in any software process. In fact nothing is in feasible with unlimited time and resources. But it is not the fact. So, practically we have to do in limited resources in a restricted time margin. So for the system to be feasible, following points we have to consider.

The feasibility study is conducted to check whether the candidate system is feasible. The system which is selected to be the best against the criteria is there after designed and developed. The feasibility study takes in to consideration, the risks involved in the project development beforehand. Therefore in this phase we have to do feasibility study which is the test of the website according to its work ability, impact on the organization, ability to meet user need and effective use of resources. We do the feasibility study for website to analyze the risks, costs and benefits relating to economics, technology and user organization. There are several types of feasibility depending on the aspect they cover. Import of these includes:

Technical Feasibility:

This is an important outcome of preliminary investigation. It comprise of following questions:-

- Can the work of projected one with the current equipment, existing software and available man power resource?
- If Technology is required what are the possibilities that it can be developed?

Economic Feasibility:

It deals with question related to the economy. It comprise of the following questions:-

- Are there sufficient benefits in creating the system to make the cost acceptable?
- Are the costs of not creating the system so great that the project must be undertaken?

Legal Feasibility:

It deals with the question related to the legal issues. It comprise of the following questions:-

- Contract Signing
- Software License agreement
- Issues related to cyber laws.
- Legal issues relating to the man power contract.

Operational Feasibility:

The operational feasibility consists of the following activity:-

- Will the system be useful if it is developed & implemented?
- Will there be resistance from employee?

Social & Behavioral Feasibility:

It deals with the various issues related to the human behavior like:-

- Whether the user be able to adapt a new change or not?
- Whether the ambiance we are providing suits the user or not?

Request Approval:-

Request approval is the third phase of system development lifecycle. Request approval is the phase in which all the requirements which would be provide in the system are stated. The request approval is a sort of agreement between the client and the company which is building this software. Both the parties should be mutually agreed on the stated requirements.

System Analysis:-

System analysis is the phase following the phase of the request approval. In this phase we tend to analyze the overall system which we have to build. System analysis is the crucial part in SDLC.

System Design:-

System design means the designing of the system. The System can be done in either of the following two ways:-

- Logical System Design
- Physical System Design

Coding:-

Coding is the phase in which a developer codes using any programming languages. Coding constitutes only 20 % of the whole project and which is easier to write. The coding work is also done in the teams; development of the system is usually done under the modular programming style, which can be either top-down approach or bottom-up approach.

Testing:-

Testing is the phase in which the system that has been developed is tested. Testing comprises of the 60% of the overall development of the system. Testing of the system is important because testing aims to uncover the different errors in the system. There are various different testing techniques that can be used for the testing of the system.

Implementation:-

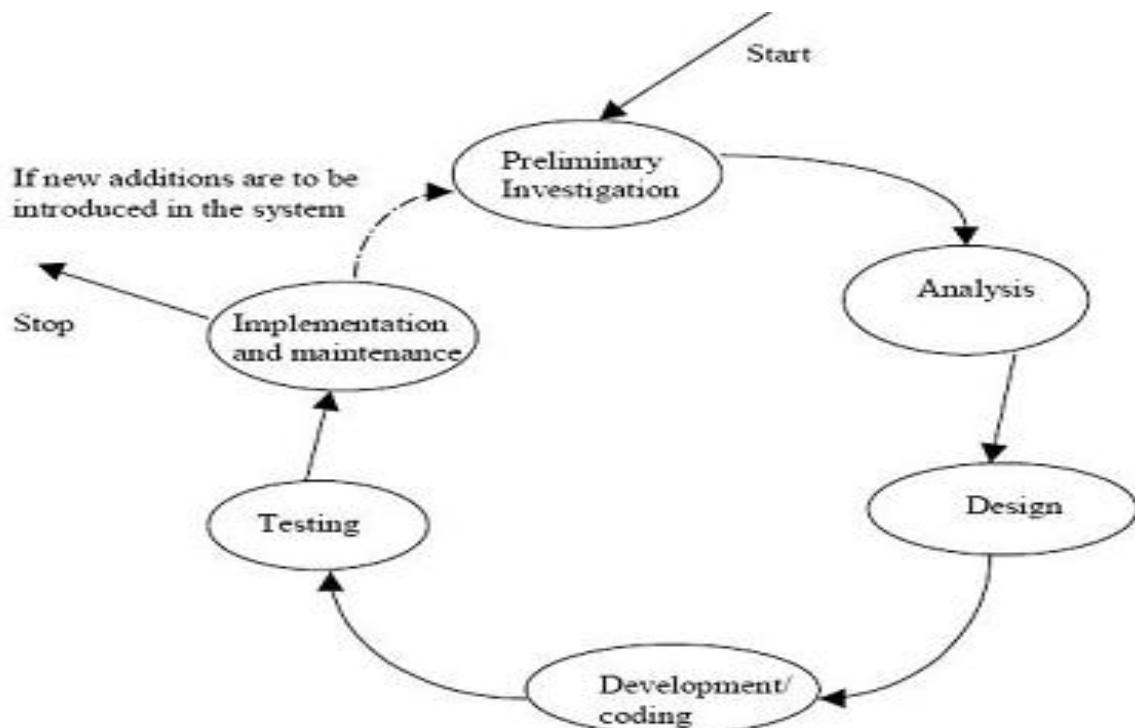
Implementation process involved the installation of software on user's side. Implementation

process actually depends on type of a system & various. Opting for suitable conversion approach is a step implementation. The conversion processes are as follows:-

- Parallel Conversion
- Direct Conversion Approach
- Pilot Conversion Approach
- Phase In Conversion Approach

Maintenance:-

Merely developing the system is not important but also maintenance is important. The company that has built the system provides for some time free of cost maintenance to the client and after that period it is usually a paid service.



Process Description

Gantt charts mainly used to allocate resources to activities. The resources allocated to activities include staff, hardware, and software. Gantt charts (named after its developer Henry Gantt) are useful for resource planning. A Gantt chart is special type of bar chart where each bar represents an activity. The bars are drawn along a timeline. The length of each bar is proportional to the duration of the time planned for the corresponding activity.

Gantt chart is a project scheduling technique. Progress can be represented easily in a Gantt chart, by coloring each milestone when completed. The project will start in the month of January and end after 4 months at the beginning of April.

Project Model Used

Iterative Enhancement Model

- This model has the same phases as the waterfall model, but with fewer restrictions.
- Generally the phases occur in the same order as in the waterfall model, but they may be conducted in several cycles.
- Useable product is released at the end of the each cycle, with each release providing additional functionality. Customers and developers specify as many requirements as possible and prepare a SRS document. Developers and customers then prioritize these requirements. Developers implement the specified requirements in one or more cycles of design, implementation and test based on the defined priorities.

The procedure itself consists of the initialization step, the iteration step, and the Project Control List. The initialization step creates a base version of the system. The goal for this initial implementation is to create a product to which the user can react. It should offer a sampling of

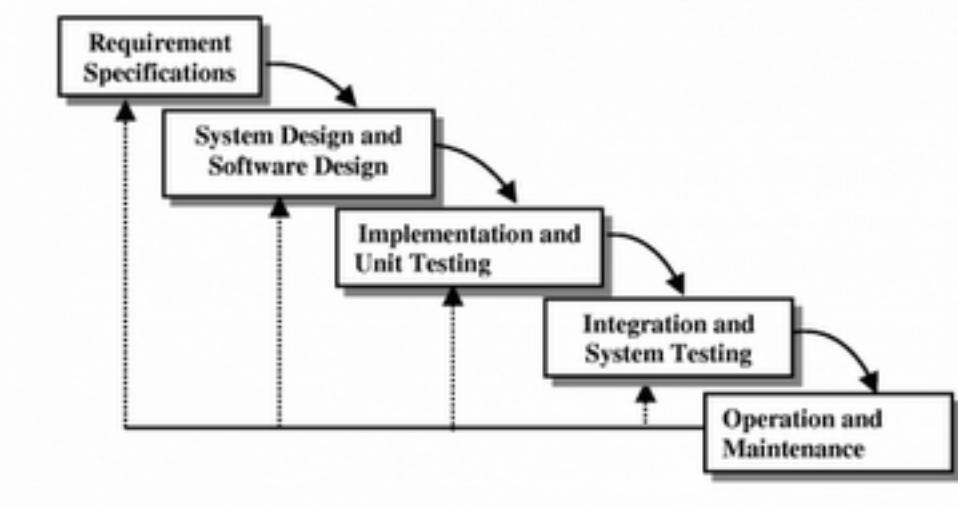
the key aspects of the problem and provide a solution that is simple enough to understand and implement easily. To guide the iteration process, a project control list is created that contains a record of all tasks that need to be performed. It includes such items as new features to be implemented and areas of redesign of the existing solution. The control list is constantly being revised as a result of the analysis phase.

The iteration involves the redesign and implementation of iteration is to be simple, straightforward, and modular, supporting redesign at that stage or as a task added to the project control list. The level of design detail is not dictated by the iterative approach. In a light-weight iterative project the code may represent the major source of documentation of the system; however, in a critical iterative project a formal Software Design Document may be used. The analysis of an iteration is based upon user feedback, and the program analysis facilities available. It involves analysis of the structure, modularity, usability, reliability, efficiency, & achievement of goals. The project control list is modified in light of the analysis results.

Phases:

Incremental development slices the system functionality into increments (portions). In each increment, a slice of functionality is delivered through cross-discipline work, from the requirements to the deployment. The unified process groups increments/iterations into phases: inception, elaboration, construction, and transition.

- Inception identifies project scope, requirements (functional and non-functional) and risks at a high level but in enough detail that work can be estimated.
- Elaboration delivers a working architecture that mitigates the top risks and fulfills the non-functional requirements.
- Construction incrementally fills-in the architecture with production-ready code produced from analysis, design, implementation, and testing of the functional requirements.
- Transition delivers the system into the production operating environment.



ER-Diagram

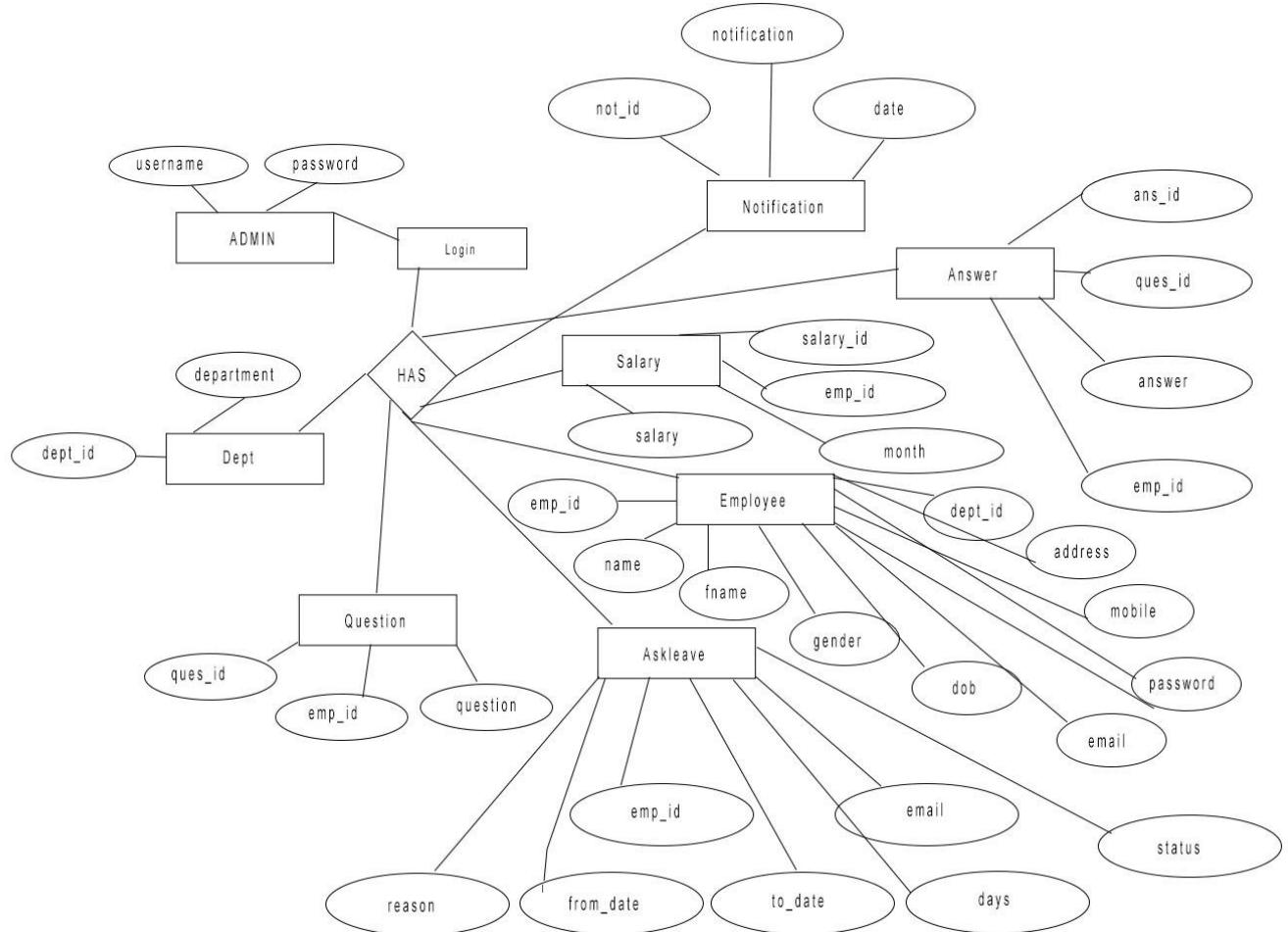
Introduction:-

In software engineering, an entity-relationship model (ERM) is an abstract and conceptual representation of data. Entity-relationship modeling is a database modeling method, used to produce a type of conceptual schema or semantic data model of a system, often a relational database, and its requirements in a top-down fashion. Diagrams created by this process are called entity-relationship diagrams, ER diagrams, or ERDs. ER Diagrams depicts relationship between data objects. The attribute of each data objects noted in the entity-relationship diagram can be described using a data object description. Entity relationship diagram is very basic, conceptual model of data and it is fundamental to the physical database design. This analysis is then used to organize data as relations, normalizing relations, and obtaining a Relational database.

The entity-relationship model for data uses three features to describe data. These are:

1. Entities which specify distinct real-world items in an application.
2. Relationship, which connect entities and represent meaningful dependencies between them.
3. Attributes which specify properties of entities & relationships.

E-R Diagram



Data Flow Diagram

Introduction:-

DFD is an acronym for the word Data Flow Diagram. DFD is pictorial representation of the system. DFD is a graphical representation of the flow of data through the information system. DFD are also used for the visualization of data processing (structured design). ADFD provides no information about the timings of the process, or about whether process will operate in parallel or sequence. DFD is an important technique for modeling a system's high-level detail by showing how input data is transformed to output results through sequence of functional transformations. DFD reveal relationships among between the various components in a program or system. The strength of DFD lies in the fact that using few symbols we are able to express program design in an easier manner. A DFD can be used to represent the following:-

- External Entity sending and receiving data.
- Process that change the data.
- Flow of data within the system.
- Data Storage locations.

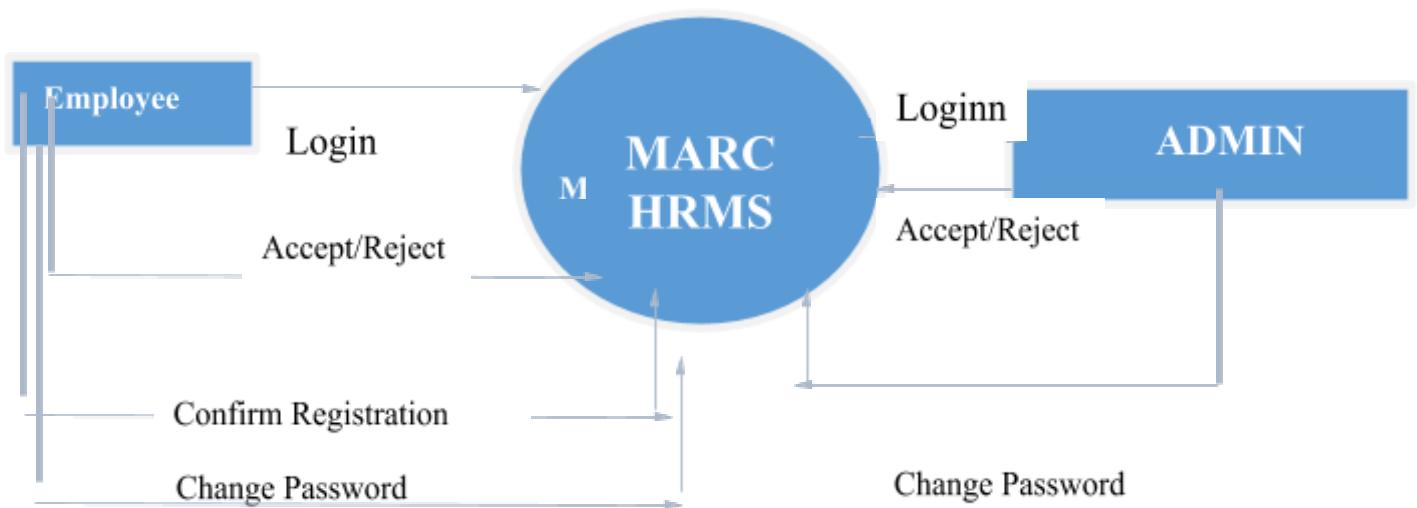
Uses of DFD:-

The main uses of data flow diagrams are as follows:-

DFD is a method of choice for representation of showing of information through a system because of the following reasons:-

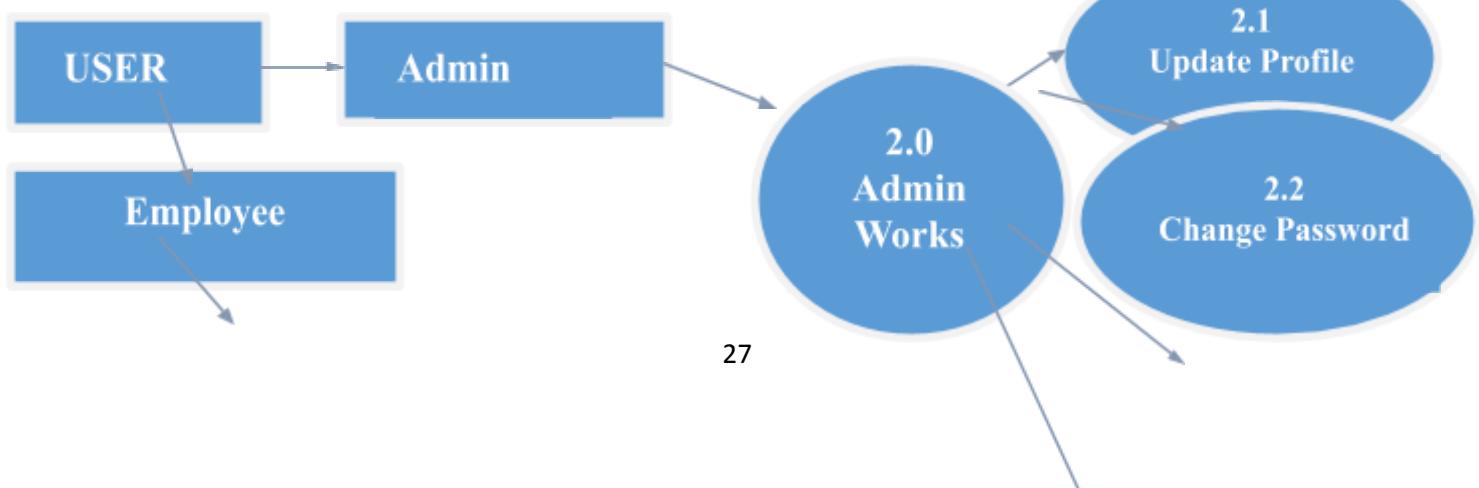
- DFD's are easier to understand by technical and non-technical audiences.
- DFD's can provide high level system overview, complete with boundaries and connections to other system.
- DFD's can provide a detailed representation of system components.

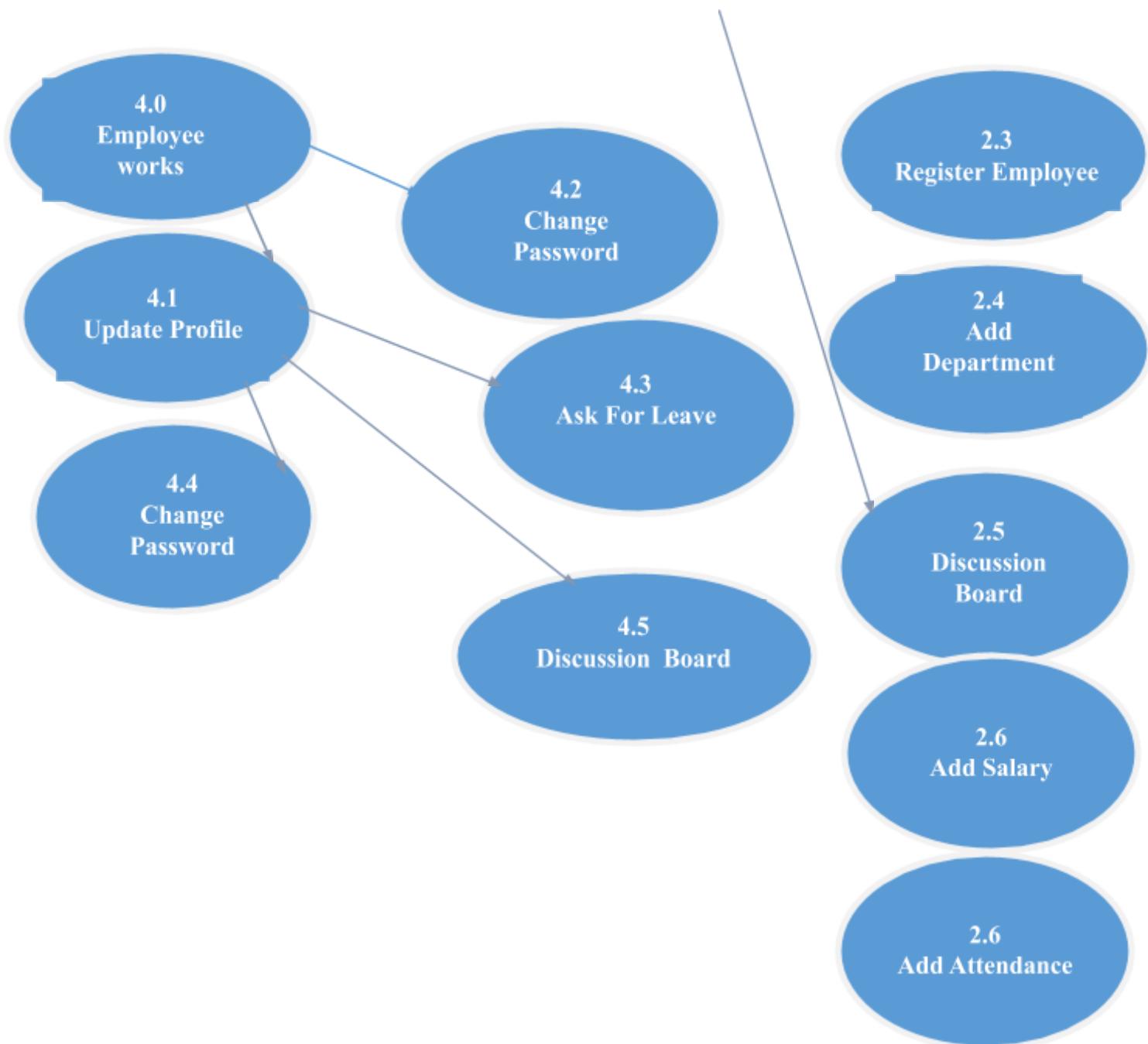
0 Level DFD



1 Level DFD

1 Level DFD





Software Requirement Specification

A requirements specification for a software system is a complete description of the behavior of a system to be developed and it includes a set of use cases that describe all the interactions the users will have with the software. In addition to use cases, the SRS also contains non-functional requirements.

Non-functional requirements are requirements which impose constraints on the design or implementation (such as performance engineering requirements, quality standards, or design constraints). Requirements are a sub-field of software engineering that deals with the elicitation, analysis, specification, and validation of requirements for software.

The software requirement specification document enlists all necessary requirements for project development. To derive the requirements we need to have clear and thorough understanding of the products to be developed. This is prepared after detailed communications with project team and the customer.

Hardware Requirements

1. Minimum 350MB Hard Disk space for installation
2. 4GB HD space required for a typical live system with 1000-2000 events
3. Recommended minimum CPU - Pentium 4, 3.2GHz
4. Recommended 1GB RAM for a Central Server with 3 Nodes
5. Network card

Software Requirements

1. Operating System (Windows XP/2000/Vista/7/8)
2. S/W Requirements- for Development(Wamp Server, Edit++, Dreamweaver)
3. Front-End Technology - (Html, JavaScript, CSS, PHP)
4. Data Base Server (MYSQL)

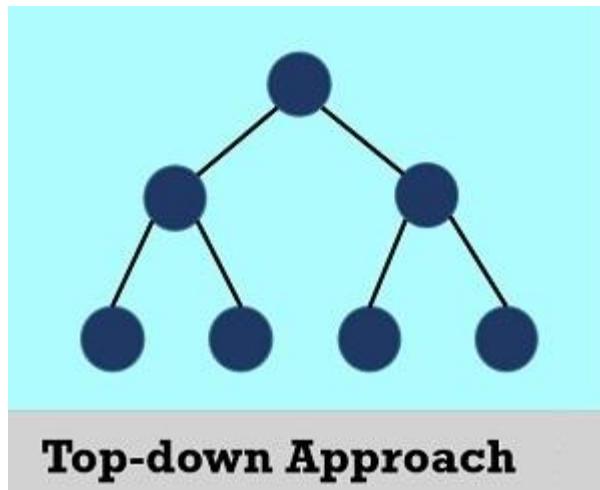
Support and Maintenance:-

One year free support for rectifying system bugs including front end and back end will be provided. During warranty period Software Engineers will be responsible for removing bugs and improving it. After one year support can be extended @ 20% of the total product deployment cost.

System Design Approach

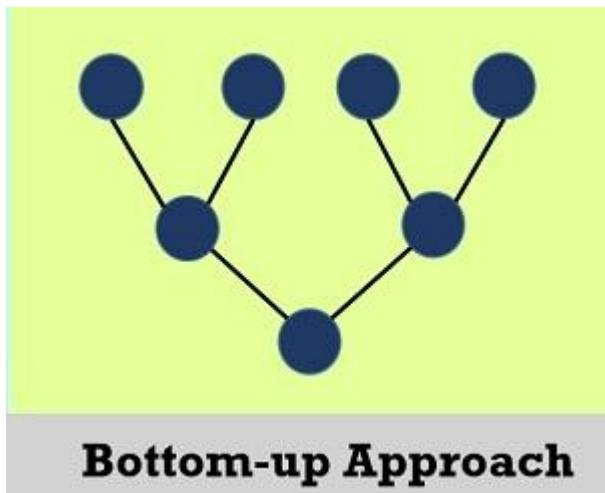
Top – Down designing:

The top - down designing approach started with major components of the system. It is a stepwise refinement which starts from an abstract design, in each steps the design is refined two or more concrete levels until we reach a level where no – more refinement is possible or not needed.



Bottom – Up designing:

In bottom – up designing the most basic and primitive components are designed first, and we proceed to higher level components. We work with layers of abstractions and abstraction are implemented until the stage is reached where the operations supported by the layer is complete.



Approach we are following:

In this project we are following **Mixed Approach** i.e. a combination of top – down and bottom – up. We are developing some of the components using top – down designing approach (e.g. the Web Pages) and the some components in bottom – up designing approach (e.g. the middle tier classes).

Data Modeling

List of Tables used in Project:

- ✓ Tbl_admin
- ✓ Tbl_attendance
- ✓ Tbl_department
- ✓ Tbl_employee
- ✓ Tbl_noti
- ✓ Tbl_salary
- ✓ Tbl_leave

A. Tbl_admin

Server: localhost ▶ Database: marc ▶ Table: tbl_admin										
	Field	Type	Collation	Attributes	Null	Default	Extra	Action		
<input type="checkbox"/>	admid	int(11)			No	None	auto_increment			
<input type="checkbox"/>	email	varchar(30)	latin1_swedish_ci		No	None				
<input type="checkbox"/>	password	varchar(20)	latin1_swedish_ci		No	None				

B. Tbl_attendance

Server: localhost ▶ Database: marc ▶ Table: tbl_attendance										
	Field	Type	Collation	Attributes	Null	Default	Extra	Action		
<input type="checkbox"/>	attd_id	int(11)			No	None	auto_increment			
<input type="checkbox"/>	empid	int(11)			No	None				
<input type="checkbox"/>	status	varchar(60)	latin1_swedish_ci		No	absent				
<input type="checkbox"/>	date	varchar(60)	latin1_swedish_ci		No	None				
<input type="checkbox"/>	time	varchar(60)	latin1_swedish_ci		No	None				

C. Tbl_department

Server: localhost ▶ Database: marc ▶ Table: tbl_department										
	Field	Type	Collation	Attributes	Null	Default	Extra	Action		
<input type="checkbox"/>	depid	int(11)			No	None	auto_increment			
<input type="checkbox"/>	department	varchar(60)	latin1_swedish_ci		No	None				
<input type="checkbox"/>	date	varchar(10)	latin1_swedish_ci		No	None				

D. Tbl_employee

Server: localhost > Database: marc > Table: tbl_employee

	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	empid	int(11)			No	None	auto_increment	
<input type="checkbox"/>	name	varchar(60)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	fname	varchar(60)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	gender	varchar(6)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	email	varchar(30)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	password	varchar(20)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	mobile	varchar(13)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	address	varchar(200)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	dob	varchar(10)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	depid	int(11)			No	None		
<input type="checkbox"/>	photo	varchar(100)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	date	varchar(10)	latin1_swedish_ci		No	None		

Check All / Uncheck All With selected:

E. Tbl_noti

Server: localhost > Database: marc > Table: tbl_noti

	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	notid	int(11)			No	None	auto_increment	
<input type="checkbox"/>	notice	varchar(200)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	date	varchar(10)	latin1_swedish_ci		No	None		

Check All / Uncheck All With selected:

F. Tbl_salary

Server: localhost > Database: marc > Table: tbl_salary

	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	sal_id	int(11)			No	None	auto_increment	
<input type="checkbox"/>	depid	int(11)			No	None		
<input type="checkbox"/>	paygrade	varchar(60)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	basic	varchar(60)	latin1_swedish_ci		No	None		

Check All / Uncheck All With selected:

G. Tbl_leave

Server: localhost > Database: marc > Table: tbl_leave

	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	leaveid	int(11)			No	None	auto_increment	
<input type="checkbox"/>	empid	int(11)			No	None		
<input type="checkbox"/>	dfrom	varchar(10)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	dto	varchar(10)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	reason	varchar(200)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	status	varchar(1)	latin1_swedish_ci		No	None		
<input type="checkbox"/>	doa	varchar(10)	latin1_swedish_ci		No	None		

Check All / Uncheck All With selected:

Low Level Design

Description: Low Level Design creation is one of the most important activities in the development of any software product. The low level design document gives the design of the actual software application. Low level design document is based on High Level Design document. It defines internal logic of every sub module. A good low level design document will make the application very easy to develop by the developer. An effective design document results in very low efforts in developing a Software product.

Each project's low level design document should provide a **complete and detailed** specification of the design for the software that will be developed in the project, including the classes, member and non-member functions, and associations between classes that are involved.

The low level design document should contain a listing of the declarations of all the classes, non-member-functions, and class member functions that will be defined during the subsequent implementation stage, along with the associations between those classes and any other details of those classes (such as member variables) that are firmly determined by the low level design stage. The low level design document should also describe the classes, function signatures, associations, and any other appropriate details, which will be involved in testing and evaluating the project according to the evaluation plan defined in the project's requirements document.

Testing:

Testing is the integral part of any System Development Life Cycle insufficient and interested application tends to crash and result in loss of economic and manpower investment besides user's dissatisfaction and downfall of reputation.

"Software Testing can be looked upon as one among much process, an organization performs, and that provides the last opportunity to correct any flaws in the developed system. Software Testing includes selecting test data that have more probability of giving errors." The first step in System testing is to develop the plan that all aspect of system .Complements, Correctness, Reliability and Maintainability.

Software is to be tested for the best quality assurance, an assurance that system meets the specification and requirement for its intended use and performance.

System Testing is the most useful practical process of executing the program with the implicit intention of finding errors that makes the program fail.

Types of Testing:

Black Box (Functional) Testing:

Testing against specification of system or components. Study it by examining its inputs and related outputs. Key is to devise inputs that have a higher likelihood of causing outputs that reveal the presence of defects. Use experience and knowledge of domain to identify such test

cases. Failing this a systematic approach may be necessary. Equivalence partitioning is where the input to a program falls into a number of classes, e.g. positive numbers vs. negative numbers. Programs normally behave the same way for each member of a class. Partitions exist for both input and output. Partitions may be discrete or overlap. Invalid data (i.e. outside the normal partitions) is one or more partitions that should be tested.

Internal System design is not considered in this type of testing. Tests are based on requirements and functionality.

This type of test case design method focuses on the functional requirements of the software, ignoring the control structure of the program. Black box testing attempts to find errors in the following categories:

- Incorrect or missing functions.
- Interface errors.
- Errors in data structures or external database access.
- Performance errors.
- Initialization and termination errors.

White Box (Structural) Testing:

Testing based on knowledge of structure of component (e.g. by looking at source code). Advantage is that structure of code can be used to find out how many test case need to be performed. Knowledge of the algorithm (examination of the code) can be used to identify the equivalence partitions. Path testing is where the tester aims to exercise every independent execution path through the component. All conditional statements tested for both true and false cases. If a unit has no control statements, there will be up to 2^n possible paths through it. This demonstrates that it is much easier to test small program units than large ones. Flow graphs are a pictorial representation of the paths of control through a program (ignoring assignments, procedure calls and I/O statements). Use flow graph to design test cases that execute each path. Static tools may be used to make this easier in programs that have a

complex branching structure. Tools support. Dynamic program analyzers instrument a program with additional code. Typically this will count how many times each statement is executed. At end print out report showing which statements have and have not been executed. Problems with flow graph derived testing:

- Data complexity could not take into account.
- We cannot test all paths in combination.
- It really only possible at unit and module testing stages because beyond that complexity is too high.

This testing is based on knowledge of the internal logic of an application's code. Also known as a Glass Box Testing .Internal software and code working should be known for this type of testing. Tests are based on coverage of code statements, branches, paths, conditions.

Unit Testing:

Unit testing concentrates on each unit of the software as implemented in the code. This is done to check syntax and logical errors in programs. At this stage, the test focuses on each module individually, assuring that it functions properly as a unit. In our case, we used extensive white-box testing at the unit testing stage.

A developer and his team typically do the unit testing do the unit testing is done in parallel with coding; it includes testing each function and procedure.

Incremental Integration Testing:

Bottom up approach for testing i.e. continuous testing of an application as new functionality is added; Application functionality and modules should be independent enough to test separately done by programmers or by testers.

Integration Testing:

Testing of integration modules to verify combined functionality after integration .Modules are typically code modules, individual applications, client and server and distributed systems.

Functional Testing:

This type of testing ignores the internal parts and focus on the output is as per requirement or not .Black box type testing geared to functionality requirements of an application.

System Testing:

Entire system is tested as per the requirements. Black box type test that is based on overall requirement specifications covers all combined parts of a system.

End-to-End Testing:

Similar to system testing ,involves testing of a complete application environment in a situation that mimics real-world use, such as interacting with a database ,using network communications, or interacting with hardware, applications, or system if appropriate.

Regression Testing:

Testing the application as a whole for the modification in any module or functionality. Difficult to cover all the system in regression testing so typically automation tools are used for these testing types.

Acceptance Testing:

Normally this type of testing is done to verify if system meets the customer specified requirements. User or customers do this testing to determine whether to accept application.

Performance Testing:

Term often used interchangeably with “stress” and “load” testing, To check whether system meets performance requirements, Used different performance and load tools to do this.

Alpha Testing:

In house virtual user environment can be created for this type of testing. Testing is done at the end of development .Still minor design changes may be made as a result of such testing.

Beta Testing:

Testing typically done by end-users or others. This is final testing before releasing application for commercial purpose.

SNAPSHOTS

Index

The screenshot shows a web browser window with the URL localhost:70/MARC/. The background of the page is a close-up photograph of various pharmaceutical tablets and capsules. In the top right corner, there is a red rectangular logo with the word "MARC" in white. Below the logo, the text "MARC Laboratory Pvt. Ltd." is displayed. Underneath that, a "Admin Login" button is visible. To the left of the login form is a large image of medical supplies, including a glass dropper and several different types of pills.

Admin Dashboard

The screenshot shows a web browser window with the URL localhost:70/MARC/profile.php. The dashboard has a dark header bar with the "MARC" logo. The main area is titled "Admin Panel". On the left, there is a sidebar with a user icon, the text "Welcome Admin", the date "23/08/19", and a "LogOut" button. The main content area is divided into a grid of eight cards:

- Add Department
- Add Employee
- View Employee
- Salary
- Attendance
- View Attendance
- Leaves
- Notification
- Change Password

Employee Registration

The screenshot shows a web application interface for 'Add Employee'. On the left, a sidebar titled 'Welcome Admin' lists various menu items: Home, Add Department, Add Employee, View Employee, Salary, Attendance, View Attendance, Leaves, Notification, and LogOut. The main content area is titled 'Add Employee' and features a background image of two people shaking hands over a desk. The form fields include:

- Employee Name
- Father Name
- Gender (Male or Female)
- DOB (dd-mm-yyyy)
- Email
- Password
- Mobile
- Department (Select Department dropdown)
- Address
- Upload Photo (with a 'Browse' button)
- Register button

Add Notification

localhost:70/MARC/addnoti.php

Notification

MARC

Home Add Department Add Employee View Employee Salary Attendance View Attendance Leaves Notification LogOut

Notification

Add

All Notifications

S.No	Notice	Date	Delete
1	We are shifting the office to from Kapurthala to Gomti Nagar	2019-08-08	
2	On 10 Aug , there is an most important meeting at 9 AM sharp.	2019-08-08	
3	The company is going in loss so we are firing employee	2019-08-08	
4	everyone has to come on 15th august	2019-08-10	

Add Department

localhost:70/MARC/depart.php

Add Department

MARC

Welcome To Admin

Home Add Department Add Employee View Employee Salary Attendance View Attendance Leaves Notification LogOut

Add Department Add Department

Add

S.No	Department	Date	Delete	Update
1	HR	2019-08-03		
2	Marketing	2019-08-03		
3	Account	2019-08-03		
4	Inventory	2019-08-03		
5	Workshop	2019-08-08		

View All Employees

localhost:70/MARC/view.php

View Employee



S.No	Employee Name	Father Name	Gender	Email	Password	Mobile	Department	Address	Uploaded Photo	Date	Delete
1	Dr. Pravina Patel	Praibhas Patel	Female	pravina@gmail.com	xxxxxxxxxx	7645897536	HR	Opp. Malik Guest House, Medical Store, Harjinder Nagar, Tiwaripur Rd, Ramadevi Chauraha, Kanpur, Uttar Pradesh 208007		2019-08-04	Edit
2	Dr. Alok Bajpai	Sanjay Bajpai	Male	alok@gmail.com	xxxxxxxxxx	9849856799	HR	Nandan Cottage, 7/89-A, Nawabganj Rd, Opposite Allenganj Society, Khalasi Line, Tilak Nagar, Kanpur, Uttar Pradesh 208002		2019-08-04	Edit
3	Dr. Sanjal Rastogi	Suresh Rastogi	Male	sanjal@gmail.com	xxxxxxxxxx	8877486800	HR	Account 7/142 d, 7/142 d, Swaroop Nagar, Khalasi Line, Swaroop Nagar, Kanpur, Uttar Pradesh 208002		2019-08-04	Edit
4	Sunena Yadav	Suresh Yadav	Female	sunena@gmail.com	xxxxxxxxxx	6748909890	Inventory	7807 Bridgeton Drive Baldwinsville, NY 13027		2019-08-07	Edit
5	Dr. Shubha Agarwal	brijesh Agarwal	Male	shubha@gmail.com	xxxxxxxxxx	9079644000	Marketing	Account Khalasi Line, Tilak Nagar, Indore, Uttar Pradesh 208002		2019-08-04	Edit
6	Dr. Bhupendra Kumar	Beejendra Kumar	Male	bhupendra@gmail.com	xxxxxxxxxx	9988656089	Marketing	Account 3/4, Site No. 1, chaurah, Kidwai Nagar, Kanpur, Uttar Pradesh 208011		2019-08-04	Edit
7	Dr. S. S. Singh	D.K. Singh	Female	singhal@gmail.com	xxxxxxxxxx	8909764589	Account	Account 111/457, 80 Feet Rd, Brahm Nagar, Jawahar Nagar, Kanpur, Uttar Pradesh 208012		2019-08-04	Edit

Change Password

localhost:70/MARC/change.php

Change Password



Welcome Admin

- [Home](#)
- [Add Department](#)
- [Add Employee](#)
- [View Employee](#)
- [Salary](#)
- [Attendance](#)
- [View Attendance](#)
- [Leaves](#)
- [Notification](#)
- [LogOut](#)

Old Password

New Password

Confirm New Password

View All Leaves

localhost:70/MARC/leaves.php

The screenshot shows a web-based application titled "Leaves". At the top right is a logo for "MARC". The navigation bar includes links for Home, Add Department, Add Employee, View Employee, Salary, Attendance, View Attendance, Leaves, Notification, and LogOut. Below the navigation is a table listing five leave requests:

S.No	Empid	Date From	Date To	Reason	Status
1	Dr. Pravina Patel	2019-08-07	2019-08-10	Birthday	N
2	Dr. Alok Bajpai	2019-08-07	2019-08-08	Wedding	Y
3	Dr. Pravina Patel	2019-08-09	2019-08-22	Sick	N
4	Dr. Pravina Patel	2019-08-07	2019-08-10	vacation	N
5	Dr. Pravina Patel	2019-12-23	2019-08-10	leave	N

Employee Dashboard

The dashboard features a header with the "MARC" logo and links for Home, Ask For Leave, My Leaves, My Salary, My Attendance, Update Profile, Change Password, and Log Out. On the left, a "Welcome Employee" message is displayed. The main area contains a "Latest Notice" with the text "everyone has to come on 15th august". Below this is a large banner for "MARC LABORATORY" with the subtitle "Human Resource Management System". The banner features a doctor in a white coat holding a tablet displaying a medical website.

Employee Ask Leave

The screenshot shows a web application interface for requesting leave. At the top, there's a navigation bar with links: Home, Ask For Leave, My Leaves, My Salary, My Attendance, Update Profile, Change Password, and Log Out. The logo 'MARC' is on the left. The main content area has a title 'Ask For Leave'. Below it are three input fields: 'Date From' and 'Date To' (both with placeholder 'dd-mm-yyyy') and a 'Reason' field. A large blue 'Submit' button is at the bottom. The background of the form is a photograph of a modern office hallway with large windows.

Home Page (index.php)

```
<?php
error_reporting(0);
session_start();
?>
<!DOCTYPE html>
<html lang="en">
<head>
<title>MARC</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<!--=====
=====-->
<link rel="icon" type="image/png" href="bootstrap/login/images/icons/favicon.ico"/>
<!--=====
=====-->
<link rel="stylesheet" type="text/css" href="bootstrap/login/vendor/bootstrap/css/bootstrap.min.css">
```

```

<!--=====
=====-->

<link rel="stylesheet" type="text/css"
href="bootstrap/login/fonts/font-awesome-4.7.0/css/font-awesome.min.css">

<!--=====
=====-->

<link rel="stylesheet" type="text/css" href="bootstrap/login/fonts/Linearicons-Free-v1.0.0/icon-font.min.css">

<!--=====
=====-->

<link rel="stylesheet" type="text/css" href="bootstrap/login/vendor/animate/animate.css">

<!--=====
=====-->

<link rel="stylesheet" type="text/css" href="bootstrap/login/vendor/css-hamburgers/hamburgers.min.css">

<!--=====
=====-->

<link rel="stylesheet" type="text/css" href="bootstrap/login/vendor/animsition/css/animsition.min.css">

<!--=====
=====-->

<link rel="stylesheet" type="text/css" href="bootstrap/login/vendor/select2/select2.min.css">

<!--=====
=====-->

<link rel="stylesheet" type="text/css" href="bootstrap/login/vendor/daterangepicker/daterangepicker.css">

<!--=====
=====-->

<link rel="stylesheet" type="text/css" href="bootstrap/login/css/util.css">

<link rel="stylesheet" type="text/css" href="bootstrap/login/css/main.css">

<!--=====
=====-->

</head>

<body style="background-color: #666666;">

<div class="limiter">

<div class="container-login100">

<div class="wrap-login100">

<form class="login100-form validate-form" action="logcode.php" method="post">

<p style="color:red;text-align: center;margin-top:50px; font-size: 30px; text-shadow: 2px 2px black;"><?php

if ($_SESSION['result']==1)

{

```

```

echo "Invalid User Id or Password"; session_destroy();
}

if ($_SESSION['result']==2)
{
session_destroy();
echo "Logout Successfully";
}

if ($_SESSION['result']==3)
{
session_destroy();
echo "Login First";
}

?></p>

<span class="login100-form-title p-b-43">

</span>

<span class="login100-form-title p-b-43">
MARC Laboratory Pvt. Ltd.
</span>

<span class="login100-form-title p-b-43">
Admin Login
</span>

<div class="wrap-input100 validate-input" data-validate = "Valid email is required: ex@abc.xyz">
<input class="input100" type="text" name="email" minlength="0" maxlength="40">
<span class="focus-input100"></span>
<span class="label-input100">Email</span>
</div>

<div class="wrap-input100 validate-input" data-validate="Password is required">
<input class="input100" type="password" name="password" minlength="0" maxlength="20">
<span class="focus-input100"></span>

```

```
<span class="label-input100">Password</span>
</div>

<div class="flex-sb-m w-full p-t-3 p-b-32">
<div>
<a href="elogin.php" class="txt1">
Employee Login
</a>
</div>

<div>
<a href="#" class="txt1">
Forgot Password?
</a>
</div>
</div>

<div class="container-login100-form-btn">
<button class="login100-form-btn">
Login
</button>
</div>
</form>

<div class="login100-more" style="background-image: url('images/background.jpg'); background-size: 100% 100%;">
</div>
</div>
</div>
</div>

<div class="footer">
All Rights Reserved Copyright &copy; MARC Laboratories Pvt. Ltd. | Designed By Kaushtubh Srivastav
</div>
```

```

<!--=====
=====-->

<script src="bootstrap/login/vendor/jquery/jquery-3.2.1.min.js"></script>
<!--=====
=====-->

<script src="bootstrap/login/vendor/animsition/js/animisition.min.js"></script>
<!--=====
=====-->

<script src="bootstrap/login/vendor/bootstrap/js/popper.js"></script>
<script src="bootstrap/login/vendor/bootstrap/js/bootstrap.min.js"></script>
<!--=====
=====-->

<script src="bootstrap/login/vendor/select2/select2.min.js"></script>
<!--=====
=====-->

<script src="bootstrap/login/vendor/daterangepicker/moment.min.js"></script>
<script src="bootstrap/login/vendor/daterangepicker/daterangepicker.js"></script>
<!--=====
=====-->

<script src="bootstrap/login/vendor/countdowntime/countdowntime.js"></script>
<!--=====
=====-->

<script src="bootstrap/login/js/main.js"></script>

</body>
</html>

```

Admin Dashboard (profile.php)

```

<?php
require("session.php");
if($_SESSION['admin']=="")
{
session_destroy("Location:index.php?msg=3");
}
?>
<!DOCTYPE html>
<html>

```



```

<div class="right_custom">
<a href="depart.php" class="icon"><i class="fas fa-user-plus " style="font-size: 40px;"></i></a>
<br/>
<a href="depart.php" class="anchor" style="text-decoration: none;">Add Department</a>
</div>
</div>
<div class="col-md-3" >
<div class="right_custom">
<a href="employee.php" class="icon"><i class="fas fa-file-alt " style="font-size: 40px;"></i></a>
<br/>
<a href="employee.php" class="anchor" style="text-decoration: none;">Add Employee</a>
</div>
</div>
<div class="col-md-3">
<div class="right_custom">
<a href="view.php" class="icon"><i class="fas fa-copy " style="font-size: 40px;"></i></a>
<br/>
<a href="view.php" class="anchor" style="text-decoration: none;">View Employee</a>
</div>
</div>
<div class="col-md-3">
<div class="right_custom">
<a href="addsalary.php" class="icon"><i class="fas fa-money-check-alt " style="font-size: 40px;"></i></a>
<br/>
<a href="addsalary.php" class="anchor" style="text-decoration: none;">Salary</a>
</div>
</div>
</div>
<div class="row">
<div class="col-md-3">
<div class="right_custom">
<a href="addatt.php" class="icon"><i class="fas fa-book-open" style="font-size: 40px;"></i></a>
<br/>
<a href="addatt.php" class="anchor" style="text-decoration: none;">Attendance</a>
</div>
</div>
<div class="col-md-3">
<div class="right_custom">
<a href="viewatt.php" class="icon"><i class="fas fa-folder" style="font-size: 40px;"></i></a>
<br/>
<a href="viewatt.php" class="anchor" style="text-decoration: none;">View Attendance</a>
</div>
</div>
<div class="col-md-3">
<div class="right_custom">
<a href="leaves.php" class="icon"><i class="fas fa-server fa-flip-horizontal" style="font-size: 40px;"></i></a>
<br/>
<a href="leaves.php" class="anchor" style="text-decoration: none;">Leaves</a>
</div>
</div>
<div class="col-md-3">
<div class="right_custom">
<a href="addnoti.php" class="icon"><i class="fas fa-bell " style="font-size: 40px;"></i></a>
<br/>
<a href="addnoti.php" class="anchor" style="text-decoration: none;">Notification</a>
</div>
</div>
</div>

```

```

<div class="row">
<div class="col-md-3">
<div class="right_custom">
<a href="change.php" class="icon"><i class="fas fa-unlock-alt" style="font-size: 40px;"></i></a>
<br/>
<a href="change.php" class="anchor" style="text-decoration: none;">Change Password</a>
</div>
</div>
</div>
</div>
</body>
</html>

```

Employee Registration (employee.php)

```

<?php
require("session.php");
include ("connect.php");
$query="select * from tbl_department";
$res=mysql_query($query);
?>
<!DOCTYPE html>
<html>
<head>
<title>MARC | Add Employee</title>
<link rel="stylesheet" type="text/css" href="bootstrap/css/bootstrap.min.css">
<link rel="stylesheet" type="text/css" href="bootstrap/css/bootstrap-grid.min.css">
<link rel="stylesheet" type="text/css" href="css/emystyle.css">
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.0/css/all.css"
integrity="sha384-lZN37f5QGtY3VHgisS14W3ExzMWZxybE1SJSEsQp9S+oqd12jhcu+A56Ebc1zFSJ"
crossorigin="anonymous">
<script type="text/javascript" src="bootstrap/js/bootstrap.min.js">
</script>
</head>
<body>
<div class="container-fluid">
<div class="row">
<div class="col-md-3" style="padding: 0;background-color: #343a40; min-height: 80px;">
<div class="left_custom">

<hr style="width: 255px; background-color:black;" />
<h3 class="text-center" style="color: #fff; margin-top: 50px;">Welcome Admin</h3>
<br/>
<div class="col-md-10 offset-md-1" style="margin-top: 5px;">
<ul class="nav flex-column ">
<li class="nav-item">
<a class="nav-link bg-dark" href="profile.php" style="color: #fff; border-bottom: 1px solid black"><i class="fas fa-home" style="color:#000;"></i>&ampnbsp&ampnbsp&ampnbsp&ampnbspHome</a>
</li>
<li class="nav-item">
<a class="nav-link bg-dark " href="depart.php" style="color: #fff; border-bottom: 1px solid black""><i class="fas fa-address-book" style="color:#000;"></i>&ampnbsp&ampnbsp&ampnbsp&ampnbspAdd Department</a>
</li>
<li class="nav-item">
<a class="nav-link bg-dark " href="employee.php" style="color: #fff; border-bottom: 1px solid black""><i class="fas fa-address-card" style="color:#000;"></i>&ampnbsp&ampnbsp&ampnbsp&ampnbspAdd Employee</a>
</li>
<li class="nav-item">

```

```

<a class="nav-link bg-dark " href="view.php" style="color: #fff; border-bottom: 1px solid black""><i class="fas fa-glasses" style="color:#000;"></i>&nbsp;&nbsp;&nbsp;&nbsp;View Employee</a>
</li>
<li class="nav-item">
<a class="nav-link bg-dark " href="addsalary.php" style="color: #fff; border-bottom: 1px solid black""><i class="fas fa-money-check-alt" style="color:#000;"></i>&nbsp;&nbsp;&nbsp;&nbsp;Salary</a>
</li>
<li class="nav-item">
<a class="nav-link bg-dark " href="addatt.php" style="color: #fff; border-bottom: 1px solid black""><i class="fas fa-book-open" style="color:#000;"></i>&nbsp;&nbsp;&nbsp;&nbsp;Attendance</a>
</li>
<li class="nav-item">
<a class="nav-link bg-dark " href="viewatt.php" style="color: #fff; border-bottom: 1px solid black""><i class="fas fa-book-reader" style="color:#000;"></i>&nbsp;&nbsp;&nbsp;&nbsp;View Attendance</a>
</li>
<li class="nav-item">
<a class="nav-link bg-dark " href="leaves.php" style="color: #fff; border-bottom: 1px solid black""><i class="fas fa-envelope" style="color:#000;"></i>&nbsp;&nbsp;&nbsp;&nbsp;Leaves</a>
</li>
<li class="nav-item">
<a class="nav-link bg-dark " href="addnoti.php" style="color: #fff; border-bottom: 1px solid black""><i class="fas fa-bell" style="color:#000;"></i>&nbsp;&nbsp;&nbsp;&nbsp;Notification</a>
</li>
<li class="nav-item">
<a class="nav-link bg-dark " href="logout.php" style="color: #fff; border-bottom: 1px solid black""><i class="fas fa-sign-out-alt" style="color:#000;"></i>&nbsp;&nbsp;&nbsp;&nbsp;LogOut</a>
</li>
</ul>
</div>
</div>
</div>

<div class="col-md-9" style="background-image: linear-gradient(rgba(0,0,0,0.3),rgba(0,0,0,0.3)),url(images/img3a.jpg); background-size: 100% 100%;">
<div class="row">
<div class="col-md-12" style="background-image: linear-gradient(to right top, #a6abb3, #7e898e, #5c6968, #404943, #282a22);min-height: 80px; ">
<h3 class="float-left" style="padding-top: 15px; font-size: 38px; font-family:bodoni mt; margin-left: 90px;color:#fff;"><i class="fas fa-address-card" id="icon" style="color:#c11935 "></i> Add Employee </h3>

</div>
</div>
<div class="row">
<div class="col-md-10 offset-md-1">
<h1 style="text-align: center;color: #fff; text-shadow:1px 1px #000;">Add Employee</h1>
<form style="color: #fff;" action="empcode.php" method="post" enctype="multipart/form-data">

<div class="form-group row">
<label class="col-sm-2 col-form-label" style="font-size: 18px;">Employee Name</label>
<div class="col-sm-10">
<input type="text" class="form-control" name="name" placeholder="Employee Name" required required minlength="2" maxlength="60">
</div>
</div>

<div class="form-group row">
<label class="col-sm-2 col-form-label" style="font-size: 18px;">Father <br/>Name</label>
<div class="col-sm-10">

```

```

<input type="text" class="form-control" name="fname" placeholder="Father Name" required required
minlength="2" maxlength="60">
</div>
</div>

<fieldset class="form-group">
<div class="row">
<legend class="col-form-label col-sm-2 pt-0" style="font-size: 18px;">>Gender</legend>
<div class="col-sm-10">
<div class="custom-control custom-radio">
<input type="radio" id="customRadio1" name="a" class="custom-control-input" value="Male" required>
<label class="custom-control-label" for="customRadio1" style="font-size: 18px;">>Male</label>
</div>
<div class="custom-control custom-radio">
<input type="radio" id="customRadio2" name="a" class="custom-control-input" value="Female" required>
<label class="custom-control-label" for="customRadio2" style="font-size: 18px;">>Female</label>
</div>
</div>
</div>
</div>
</div>

<div class="form-group row">
<label class="col-sm-2 col-form-label" style="font-size: 18px;">>DOB</label>
<div class="col-sm-10">
<input type="date" class="form-control" name="dob" placeholder="DOB" required>
</div>
</div>

<div class="form-group row">
<label class="col-sm-2 col-form-label" style="font-size: 18px;">>Email</label>
<div class="col-sm-10">
<input type="email" class="form-control" name="email" placeholder="Email" required required minlength="1"
maxlength="40">
</div>
</div>

<div class="form-group row">
<label class="col-sm-2 col-form-label" style="font-size: 18px;">>Password</label>
<div class="col-sm-10">
<input type="password" class="form-control" name="password" placeholder="Password" required required
minlength="1" maxlength="20">
</div>
</div>

<div class="form-group row">
<label class="col-sm-2 col-form-label" style="font-size: 18px;">>Mobile</label>
<div class="col-sm-10">
<input type="number" class="form-control" name="mobile" placeholder="Mobile" required required
minlength="0" maxlength="13">
</div>
</div>

<div class="form-group">
<label style="font-size: 18px;">>Department</label>
<select class="custom-select" name="dept" required>
<option value="">Select Department</option>
<?php
while($row=mysql_fetch_array($res,MYSQL_BOTH))

```

```

{
?>
<option value=<?php echo $row['depid']; ?>><?php echo $row['department'];?></option>
<?php
}
?>
</select>
</div>

<div class="mb-3">
<label for="validationTextarea" style="font-size: 18px;">Address</label>
<textarea class="form-control" id="validationTextarea" placeholder="Address" name="address" required required
minlength="1" maxlength="200"></textarea>
</div>
</div>

<div class="col-md-10 offset-md-1">
<div class="custom-file">
<input type="file" class="custom-file-input" id="customFile" name="file" required>
<label class="custom-file-label" for="customFile">Upload Photo</label>
</div>
</div>

<div class="col-md-3 offset-md-1">
<div class="mt-3">
<button type="submit" class="btn btn-primary" onclick="return confirm('Are you sure want to
register')">Register</button>
</div>
</div>

</div>
</form>
</div>
</div>
</body>
</html>

```

Ask For Leave (ask.php)

```

<?php
require("session1.php");
?>
<!DOCTYPE html>
<html>
<head>
    <title>MARC | Ask For Leave</title>
    <link rel="stylesheet" type="text/css" href="bootstrap/css/bootstrap.min.css">
    <link rel="stylesheet" type="text/css" href="bootstrap/css/bootstrap-grid.min.css">
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.0/css/all.css"
integrity="sha384-IZN37f5QGtY3VHgisS14W3ExzMWZxybE1SJSEsQp9S+oqd12jhcu+A56Ebc1zFSJ"
crossorigin="anonymous">
    <script type="text/javascript" src="bootstrap/js/bootstrap.min.js">
    </script>
    <style type="text/css">
        .nav-item:hover{
            background-color:#6C6C6C;
            transition: 1s;

```

```

        color: black;
    }
    .navbar-nav{
        margin-left: 40px;
    }
    .col-md-3{
        background-color: lightgrey;
    }
    .col-md-12{
        margin: 0;
        padding: 0;
    }
    .nav-item{
        margin-left:5px;
        padding:4px;
    }
    .navbar{
        background-image: linear-gradient(to right, #191a1c, #1e2023, #24262a, #292d31,
#2f3339);
    }
    .nav-link{
        color: #fff;
        text-decoration: none;
    }
    .col-md-5{
        margin-left: 380px;
        margin-top: 5%;
    }

```

</style>

</head>

<body>

<div class="container-fluid">

<div class="row">

 <div class="col-md-12">

<nav class="navbar navbar-expand-sm ">

 <!-- Brand/logo -->

 <!-- Links -->

 <ul class="navbar-nav">

 <li class="nav-item">

 <i class="fas fa-home" style="color:#fff;"></i> Home

 <li class="nav-item">

 <i class="fas fa-envelope-open-text"></i> Ask For Leave

 <li class="nav-item">

 <i class="fab fa-twitch"></i> My Leaves

 <li class="nav-item">

 <i class="fas fa-money-check-alt"></i> My Salary

 <li class="nav-item">

```

<a class="nav-link" href="myattendance.php" style="color:#fff;"><i class="fas fa-user"></i>&nbsp;&nbsp;&nbsp;My Attendance</a>
</li>
<li class="nav-item">
<a class="nav-link" href="eupdate.php" style="color:#fff;"><i class="fas fa-address-card"></i>&nbsp;&nbsp;&nbsp;Update Profile</a>
</li>
<li class="nav-item">
<a class="nav-link" href="echange.php" style="color:#fff;"><i class="fas fa-key"></i>&nbsp;&nbsp;&nbsp;Change Password</a>
</li>
<li class="nav-item">
<a class="nav-link" href="elogout.php" style="color:#fff;"><i class="fas fa-sign-out-alt"></i>&nbsp;&nbsp;&nbsp;Log Out</a>
</li>
</ul>
</nav>
</div>
</div>
<div class="row">
<div class="col-md-12" style="background-image:linear-gradient(rgba(0,0,0,0.4),rgba(0,0,0,0.4)),url('images/background4.jpg'); background-size: 100% 100%; height:558px;">
    <h1 style="text-align: center;color: #fff;font-family: arial; text-shadow: 2px 1px black;">Ask For Leave</h1>
<form action="askcode.php" method="post">
    <div class="col-md-5 offset-md-3">
        <label for="exampleFormControlTextarea1" style="color:#fff; font-size: 20px;font-family:arial;">Date From</label>
        <div class="input-group mb-3">
            <div class="input-group-prepend">
                <span class="input-group-text"><i class="fas fa-calendar-week"></i></span>
            </div>
            <input type="date" class="form-control" placeholder="Date From" name="dfrom" required>
        </div>
        <label for="exampleFormControlTextarea1" style="color:#fff; font-size: 20px;font-family:arial;">Date To</label>
        <div class="input-group mb-3">
            <div class="input-group-prepend">
                <span class="input-group-text"><i class="fas fa-calendar-week"></i></span>
            </div>
            <input type="date" class="form-control" placeholder="Date To" name="dto" required>
        </div>
        <div class="form-group">
            <label for="exampleFormControlTextarea1" style="color:#fff; font-size: 20px;font-family:arial;">Reason</label>
            <textarea class="form-control" id="exampleFormControlTextarea1" rows="3" name="reason" required required minlength="1" maxlength="200"></textarea>
        </div>
        <button type="submit" class="btn btn-primary" style="width: 300px; margin-left: 100px;" onclick="return confirm('Are you sure want to submit?')">Submit</button>
    </div>
</form>
</div>
</div>
</body>
</html>

```

My Leavea (myleave.php)

```

<?php
require("session1.php");
include ("connect.php");
$email=$_SESSION['user'];
$query="select * from tbl_employee where email='$email'";
$res=mysql_query($query);
if($row=mysql_fetch_array($res,MYSQL_BOTH))
{
    $uid=$row['empid'];
}
$query2="select * from tbl_leave where empid='$uid'";
$res2=mysql_query($query2);
?>
<!DOCTYPE html>
<html>
<head>
    <title>MARC | My Leave</title>
    <link rel="stylesheet" type="text/css" href="bootstrap/css/bootstrap.min.css">
    <link rel="stylesheet" type="text/css" href="bootstrap/css/bootstrap-grid.min.css">
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.0/css/all.css"
integrity="sha384-lZN37f5QGtY3VHgisS14W3ExzMWZxybE1SJSEsQp9S+oqd12jhcu+A56Ebc1zFSJ"
crossorigin="anonymous">
    <script type="text/javascript" src="bootstrap/js/bootstrap.min.js">
    </script>
    <style type="text/css">
        table {
            border-collapse: collapse;
            width: 100%;
        }
        th, td {
            text-align:left;
            padding:7px;
        }
        tr:nth-child(even){background-color: #f2f2f2}
        tr:nth-child(odd){background-color: #f2f2f2}

        th {
            background-color: #131517;
            color: white;
        }
        .nav-item:hover{
            background-color:#6C6C6C;
            transition: 1s;
            color: black;
        }
        .navbar-nav{
            margin-left: 40px;
        }
        .col-md-3{
            background-color: lightgrey;
        }
        .col-md-12{
            margin: 0;
            padding: 0;
        }
        .nav-item{

```

```

        margin-left:5px;
        padding:4px;
    }
    .navbar{
        background-image: linear-gradient(to right, #191a1c, #1e2023, #24262a, #292d31,
#2f3339);
    }
    .nav-link{
        color: #fff;
        text-decoration: none;
    }
    .col-md-5{
        margin-left: 380px;
        margin-top: 10%;
    }

```

</style>

</head>

<body>

<div class="container-fluid">

<div class="row">

- <div class="col-md-12">
- <nav class="navbar navbar-expand-sm ">
- <!-- Brand/logo -->
-
-
- <!-- Links -->
- <ul class="navbar-nav">
- <li class="nav-item">
- <i class="fas fa-home" style="color:#fff;"></i>&nbsp&nbsp&nbspHome
-
- <li class="nav-item">
- <i class="fas fa-envelope-open-text"></i>&nbsp&nbsp&nbspAsk For Leave
-
- <li class="nav-item">
- <i class="fab fa-twitch"></i>&nbsp&nbsp&nbspMy Leaves
-
- <li class="nav-item">
- <i class="fas fa-money-check-alt"></i>&nbsp&nbsp&nbspMy Salary
-
- <li class="nav-item">
- <i class="fas fa-user"></i>&nbsp&nbsp&nbspMy Attendance
-
- <li class="nav-item">
- <i class="fas fa-address-card"></i>&nbsp&nbsp&nbspUpdate Profile
-
- <li class="nav-item">
- <i class="fas fa-key"></i>&nbsp&nbsp&nbspChange Password
-
- <li class="nav-item">

```

<a class="nav-link" href="elogout.php" style="color:#fff;"><i class="fas fa-sign-out-alt" style="color:#fff;"></i>&nbsp;&nbsp;&nbsp;Log Out</a>
</li>
</ul>
</nav>
</div>
</div>
<div class="row">
<div class="col-md-12"
style="background-image:linear-gradient(rgba(0,0,0,0.4),rgba(0,0,0,0.4)),url('images/background5.jpg');
background-size: 100% 100%; height:558px;">
    <h1 style="text-align: center;color: #fff;font-family: arial; text-shadow: 2px 1px black;">My Leaves</h1>
    <table border="1px solid">
        <tr>
            <th>S.No</th>
            <th>Date From</th>
            <th>Date To</th>
            <th>Reason</th>
            <th>Status</th>
            <th>Date Of Apply</th>
        </tr>
        <?php
        $a=1;
        while($row2=mysql_fetch_array($res2,MYSQL_BOTH))
        {
        ?>
        <tr>
            <td><?php echo $a;?></td>
            <td><?php echo $row2['dfrom'];?></td>
            <td><?php echo $row2['dto'];?></td>
            <td><?php echo $row2['reason'];?></td>
            <td><?php echo $row2['status'];?></td>
            <td><?php echo $row2['doa'];?></td>
        </tr>
        <?php
        $a++;
        }
        ?>
    </table>
</div>
</div>

```

Future Scope:

Following modification or upgrades can be done in system.

1. More than one company can be integrated through this software.
2. Web services can be used to know exact donation status of packets.
3. Client can check there donation delivery status online.

Conclusion:

During extended interviews with employees, we found different processes leading to the successful development and deployment of portals. The portal doesn't have to be expensive. It should support multiple campus goals. It is clear that the functionality of a portal develops over time.

It is a live project of **Marc Laboratories**. In future we will add more and more features on it.