

HUMAN RESOURCE MANAGEMENT

LAB REPORT

Submitted by

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Under the Guidance of

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Assistant Professor

In partial satisfaction of the requirements for the degree of

BACHELOR OF TECHNOLOGY
in
COMPUTER SCIENCE ENGINEERING



SCHOOL OF COMPUTING

COLLEGE OF ENGINEERING AND TECHNOLOGY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

KATTANKULATHUR - 603203

MAY 2023



INSTITUTE OF SCIENCE & TECHNOLOGY
Deemed to be University u/s 1 of UGC Act, 1956

COLLEGE OF ENGINEERING & TECHNOLOGY
SRM INSTITUTE OF SCIENCE & TECHNOLOGY
S.R.M. NAGAR, KATTANKULATHUR – 603 203
Chengalpattu District

BONAFIDE CERTIFICATE

Register No .RA2111003010250 Certified to be the bonafide work done by Keerthana of
II Year/IV Sem B.Tech Degree Course in the Practical Software Software Engineering
and

Project Management 18CSC206J in SRM INSTITUTE OF SCIENCE AND TECHNOLOGY,

Kattankulathur during the academic year 2022 – 2023.

Dr. Devipriya A
LAB INCHARGE
15/05/23

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Date : 15/05/2023

ABSTRACT

Human Resource Management (HRM) is a strategic approach to managing employees within an organization, with the aim of maximizing their performance and ensuring the achievement of organizational goals. This abstract provides a brief overview of the key concepts and practices involved in HRM.

The abstract covers several important aspects of HRM, including:

Performance Management: HRM includes performance appraisal systems to assess and evaluate employee performance. It involves setting performance goals, providing regular feedback, conducting performance reviews, and recognizing and rewarding high performers. Performance management helps align individual goals with organizational objectives and promotes accountability and transparency.

Compensation and Benefits: HRM ensures that employees are fairly compensated for their work. This involves designing and administering competitive salary and benefits packages, including bonuses, incentives, health insurance, retirement plans, and other perks. Effective compensation strategies attract and retain talented employees, motivating them to contribute their best efforts to the organization.

Employee Relations: HRM focuses on maintaining positive relationships between employees and the organization. It involves developing and implementing policies and procedures that promote fairness, equality, and a healthy work environment. HRM also addresses employee grievances, conflicts, and disciplinary actions in a professional and consistent manner.

Workplace Diversity and Inclusion: HRM recognizes the value of diversity in the workforce and strives to create an inclusive workplace culture. It involves implementing diversity initiatives, fostering equal opportunities for all employees, and promoting a culture of respect, tolerance, and acceptance.

Employee Engagement: HRM emphasizes the importance of employee engagement and satisfaction. It involves creating a supportive work environment, encouraging open communication, providing opportunities for career advancement, and recognizing and rewarding employee contributions. Engaged employees are more committed, productive, and likely to stay with the organization.

In summary, HRM encompasses various practices and strategies aimed at effectively managing the organization's human resources. By recruiting and selecting the right talent, developing their skills, managing their performance, providing competitive compensation, fostering positive employee relations, promoting diversity and inclusion, and enhancing employee engagement, HRM contributes to the overall success and competitiveness of the organization..

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LIST OF ABBREVIATIONS

S NO	ABBREVIATION
1.	WBS – Work Breakdown Structure
2.	SWOT – Strengths , Weaknesses , Opportunities , Threats
3.	ER Diagram – Entity Relationship Diagram
4.	DFD – Data Flow Diagram
5.	UML - Unified Modelling Language





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School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	1
Title of Experiment	To identify the Software Project, Create Business Case, Arrive at a Problem Statement
Name of the candidate	KEERTHANA RA2111003010250
Team Members	NAMRATHA- RA2111003010240
Register Number	RA2111003010250
Date of Experiment	20-01-2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	5
	Total	10	10

Deepa
Staff Signature with date

Aim:

To create a business case and Arrive at a Problem Statement for the Human Resource Management system.

S.NO	Name	Register number	Role
1	KEERTHANA	RA2111003010250	Representative
2	NAMRATHA	RA2111003010240	Member
3			

Project title:human resource management system

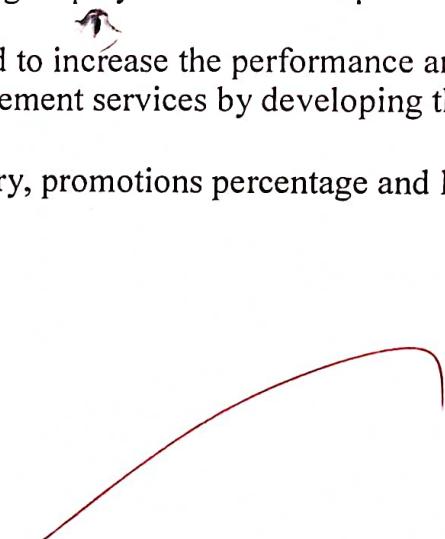
Project description:

Compelling and effective administration of Human Capital advanced to an unpreventable and muddled process. To lessen the manual workload of these managerial exercises, associations started to electronically mechanize a considerable lot of these procedures by presenting specific Human Resource Management System.

The proposed system of HR module is the right software to be incorporated into the automation of Human Resource Management System for helping the organization needs with respect to skilful human resource. The proposed system provides detail general information about the employee along with educational, certification, skill and project details.

It enhances the human resource management in adding, viewing and updating employees' details and generates various reports regarding employee's skill and experience.

The web-based HRMS for will be proposed to increase the performance and organization of the entire range of human resources management services by developing these sections:

1. HR management Information system
 2. Compute the net salary after adding salary, promotions percentage and loans.
 3. Detailed reports section.
 4. Direct email communication.
 5. Statistical data charts.
 6. Training section
 7. Vacations section
 8. Appraisal
 9. Performance evaluation
- 

HARDWARE REQUIREMENTS:

- Computer

- Processor
- Disk space: 160 MB free (min) plus as much as you need to store materials. 5 GB is probably a realistic minimum.
- Backups: to keep backups of the site
- Memory: 256 MB (min), 1GB or more is strongly recommended.

SOFTWARE REQUIREMENTS:

- Operating system
- Web browser
- Web server
- Cloud storage
- Programs
- Programming languages: PHP, SQL, CSS, HTML and JavaScript

Result

Thus, the project team formed ,the project is described the business case was prepared and the problem statement was arrived.

Reeny

ONE PAGE BUSINESS CASE TEMPLATE

DATE: 29-01-2023

SUBMITTED BY: Koenraad

TITLE / ROLE: To Identify the Software Project, Create Business Case, Arrive at a Problem Statement

THE PROJECT

In bullet points, describe the problem this project aims to solve or the opportunity it aims to develop.

To create a business case and Arrive at a Problem Statement for the Human Resource Management system

LIMITATIONS

List what could prevent the success of the project, such as the need for expensive equipment, bad weather, lack of special training, etc.

HARDWARE REQUIREMENTS:

- Computer
- Processor
- Disk space: 160 MB free (min) plus as much as you need to store materials. 5 GB is probably a realistic minimum.
- Backups: to keep backups of the site
- Memory: 256 MB (min), 1GB or more is strongly recommended.

SOFTWARE REQUIREMENTS:

- Operating system
- Web browser
- Web server
- Cloud storage
- Programs
- Programming languages: PHP, SQL, CSS, HTML and JavaScript

APPROACH

List what is needed to complete the project.

At a base level, the project requires necessary infrastructure and specialized staff that can operate the software on a day-to-day basis. Engineers that can maintain and update the software will also be required. Apart from this, other hardware requirements such as computers, processors and software requirements such as operating systems, web browsers are needed. Programming languages like PHP, SQL, CSS, HTML and JavaScript are used.



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	2
Title of Experiment	Identification of Process Methodology and Stakeholder Description
Name of the candidate	KEERTHANA
Team Members	NAMRATHA
Register Number	RA2111003010250 ,RA2111003010240
Date of Experiment	06/02/2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	4
	Total	10	9

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Staff Signature with date

Aim

To identify the appropriate Process Model for the project and prepare Stakeholder and User Description.

Team Members:

Sl No	Register No	Name	Role
1	RA2111003010250	KEERTHANA	Rep/Member
2	RA2111003010240	NAMRATHA	Member
3			

Project Title: Human Resource Management System

Identification of Project Methodology:

System Development methodology is a framework that is used to structure, plan and control the process of developing an information system. For our HRMS project we have chosen the Waterfall model.

Waterfall Model

The waterfall model is a sequential design process. This model is frequently used in software development process, in which improvement is seen as flowing steadily downwards through stages of conception, initiation, analysis, design, construction, testing/production, implementation and maintenance. In waterfall model requirements should be made clear and distinct before moving to the next phase of design.

Why waterfall was chosen for this project

Being a linear model, waterfall methodology is easy to implement as number of resources required to implement this model are minimal. This method is chosen when the requirements are clear. Each phase of waterfall model is completed in specific period of time, before moving to a new phase. Thereby considering these and as this method was found to be most preferable method when the time is a constraint of the project, waterfall model was chosen.

Interest and influence matrix

Interest	Influence
High	High
Low	Low
Low	High
High	Low

Stakeholder Name	Activity / Area / Phase	Interest	Influence	Priority (High / Medium/Low)
Head of organization and board members	The ultimate sponsor and the authority for finalizing the project output	High	High	1
Employee users	One who access it	High	High	1
Developers	Develop the software and website	High	High	2
Investors	Helps in expanding the software	Low	High	3
Marketing and finance manager	Decide content of website, manage money related transactions	Low	High	3
Administrator	Has the full authority over the system	High	Low	4

Low Interest, High Influence
Keep them satisfied as they can be
'defenders'
Help them engage more
This category includes: marketing
manager, investors

High Interest, High Influence
Engage them closely as they are
key 'drivers'
This category includes: Head of
organization, IT support team,
developers, employee users,
project manager

Low Interest, Low Influence
Low Priority as they are
'spectators'
This category includes: admin,
finance manager, staff, suppliers

High Interest, Low Influence
Keep them informed as they can be
'blockers'
This category includes:
administrator, business partners,
board members of the company

Result

Thus the Project Methodology was identified and the stakeholders were described.

Review

TP



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	3
Name of Experiment	System, Functional and Non-Functional Requirements of the Project
Name of the candidate	NAMRATHA
Examiner Members	KEERTHANA
Register Number	RA2111003010240
Report of Experiment	

Mark Split Up

No	Description	Maximum Mark	Mark Obtained
	Exercise	5	5
	Viva	5	4
	Total	10	9

Staff Signature with date:

Deputy

To identify the system, functional and non-functional requirements for the project.

Members:

Register No	Name	Role
RA2111003610250	KEERTHANA	Rep/Member
RA2111003610240	NAMRATHA	Member

Title: Human Resource Management System

Requirements:

Hardware Requirements:

- Mother Board
- Processor
- Development Machine with 6 GB Ram and 4 Cores

Software Requirements:

- Code Repository
- AWS S3 Bucket
- IDE - Eclipse
- MySql Administrator
- Microsoft SQL Server

Functional Requirements:

- All the employee users must either register or login before they're allowed further use of the system
- Adding or modifying of employee information has to be available.
- Database containing all the information about the employee user should be present.
- Database must be regularly updated and checked for errors.
- Print staff list by job class within departments including phone numbers, emergency contact and phone.
- Print evaluation form on a monthly basis.
- Provide ability to simulate the financial impact of potential contact salary changes and project the impact based on differing salary increases for different positions,

job classes etc.

- Provide ability to synchronize employee master files in payroll system and time & attendance system.
- Record the attendance and provide ability to view attendance and leave
- Calculate wages on multiple pay rates per employee, per day and per period
- Schedule monthly salary to employee
- Print deposit receipts for electronic bank deposit transactions.
- Provide human resource management functions to track applicants, current employees, past experience and continuing education
- Provide learning and development module.
- Provide ability to view and keep record of the assigned project
- Provide regular report generation of employee, salary, attendance, training and vacation.

Functional Requirements:

- Performance: All pages should load within 3 seconds
- Performance: Search should bring the results less than 7 seconds
- Availability: Application should be available for 24x7
- Scalability: Registration Service should scale to serve 1000 request per second over 5 minutes timespan
- Confidentiality: The user will not be able to see details of other users
- Compliance: The user shall be given penalties in case of non-compliance.
- Usability: The website will be made user friendly and a queries page will also be created.
- Security: The website will be secured and information files will be encrypted
- Traceability: The status of each progress will be made traceable.
- Flexibility: The platform will be made alterable wherein specifications can be added at any time
- Extensibility: Service should be extensible to other countries
- Interoperability: A number of pcs will be interconnected and share the database
- Reliability: Reliability testing will be done to ensure effective operation.
- Rapidity: Integrate New Payment Integrator

Result:

Thus the requirements were identified and accordingly described.

Ques



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	4
Title of Experiment	Prepare Project Plan based on scope, Calculate Project effort based on resources and Job roles and responsibilities
Name of the candidate	KEERTHANA
Team Members	NAMRATHA-RA2111003010240
Register Number	RA2111003010250
Date of Experiment	20/2/2023

F

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	4
	Total	10	9

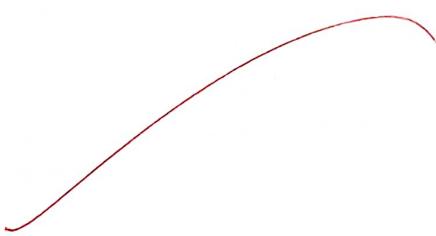
Staff Signature with date

Deyni

To Prepare Project Plan based on scope, Calculate Project effort based on resources, Find roles and responsibilities

Team Members:

No	Register No	Name	Role
	RA2111003010250	KEERTHANA	Lead
	RA2111003010240	NAMRATHA	Member
			Member



1. PROJECT MANAGEMENT PLAN:

Describe the key issues driving the project.

Focus Area	Details
Schedule Management	Initiation Project planning Requirement gathering System development Testing
Scope Management	Scope Statement Automated payroll, attendance management Information, leave management
Quality Management	Quality Assurance: Quality assurance will be managed including governance, roles and responsibilities, tools and techniques and reporting Quality Control: Specify the mechanisms to be used to measure and control the quality of the work products
Resource Management	Estimate and Manage the need People: People & Skills Required Finance: Budget Required Physical: Facilities, IT Infrastructure
Stakeholder	Identifying, Analyzing, Engaging Stakeholders
Communication Management	Determine communication requirements, roles and responsibilities, tools and techniques
Risk Management	Identifying, analysing, and prioritizing project risks
Procurement Management	Adhering to organization procurement process

2. PROJECT COST ESTIMATION

2.1 Effort and Cost Estimation

WBS	Activity	Activity Description	Sub-Task	Sub-Task Description	Effort	Cost in INR
E1R1	E1R1A1	UI/UX Design	E1R1A1T1	Researching	1 to 2 weeks	Rs. 750 – Rs. 4000
			E1R1A1T2	Wireframing		
			E1R1A1T3	Designing		
E1R2	E1R2A1	Front-End Development	E1R2A1T1	Responsive web layout (Applicable for a mobile too)	3 to 4 weeks	Rs. 16,000 to Rs. 22,000
			E1R2A1T2	Contact form, Information Integration		
			E1R2A1T3	Search engine, Change settings		
E1R3	E1R3A1	Back-End development	E1R3A1T1	Third-party integration, complex queries and more	2 to 3 weeks	Rs. 4000 to Rs. 12,500
			E1R3A1T2	Web hosting, Cloud service, Database integration, Payment Gateway		

One Time Cost:

Salary for UX Designer: 75,000 Rs

Salary for project manager: 2,00,000 Rs

Salary for developers: 1,25,000 Rs

Effort Cost: 4,00,000 Rs

Effort (hr)	Cost (INR)
1	500

Maintenance administrator- Rs. 500/hr

2.2 Infrastructure/Resource Cost [CapEx]

Infrastructure Requirement	Qty	Cost per qty	Cost per item
IR1: Web Hosting-private virtual server	1	Rs. 5,000 (per month)	Rs. 5,000 (per month)
IR2: Database integration cloud based (AWS MySQL)	1	Rs. 1,20,000 (per year)	Rs. 1,20,000 (per year)
IR3: Payment Gateway	1	3% + 3 INR for every transaction in all modes	3% + 3 INR for every transaction in all modes
IR4: Domain Name SSL certificate	1	5000 INR (per month for 10 hrs of service on a daily basis)	5000 INR (per month for 10 hrs of service on a daily basis)

Maintenance and Support Cost | OpEx|

Category	Details	Qty	Cost per qty per annum	Cost per Item
Hardware	Network, System, Middleware and DB admin	3	2,000,000	6,000,000
Software	Developer, Support Consultant			
License	Operating System	10	10000	100,000
	Database			
	Middleware			
	IDE			
Infrastructures	Server, Storage and Network	20	20000	400,000

3. ROLES AND RESPONSIBILITIES

3.1 Identification of Team members

Name	Role	Responsibilities
Keerthana	Key Business User (Product Owner)	Provide clear business and user requirements
Namratha	Project Manager	Manage the project
Namratha	Business Analyst	Discuss and Document Requirements
Keerthana	Technical Lead	Design the end-to-end architecture
Keerthana	UX Designer	Design the user experience
Keerthana	Frontend Developer	Develop user interface
Namratha	Backend Developer	Design, Develop and Unit Test Services/API/DB
Keerthana	Cloud Architect	Design the cost effective, highly available and scalable architecture
Namratha	Cloud Operations	Provision required Services
Namratha	Tester	Define Test Cases and Perform Testing

3.2 Responsibility Assignment Matrix

RACI Matrix		Team Members	
Activity		Namratha (Business Analyst / Project Manager/ Designer)	Keerthana (Developer / Tester / Key Business User)
Planning	A	C/I	
Designing	A	C/I	
Front-end Development	C/I	A	
Back-end Development	I	A	
Execute all levels of testing (system, integration, Regression)	I	A	

	Accountable
	Responsible
	Consult
	Inform

Thus, the Project plan was documented successfully.

Regrd's



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	5
Title of Experiment	Prepare Work breakdown structure, Timeline chart, Risk identification table
Name of the candidate	KEERTHANA
Team Members	NAMRATHA
Register Number	RA2111003010250, RA2111003010240
Date of Experiment	28/02/23



Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	4
Total		10	9


Staff Signature with date

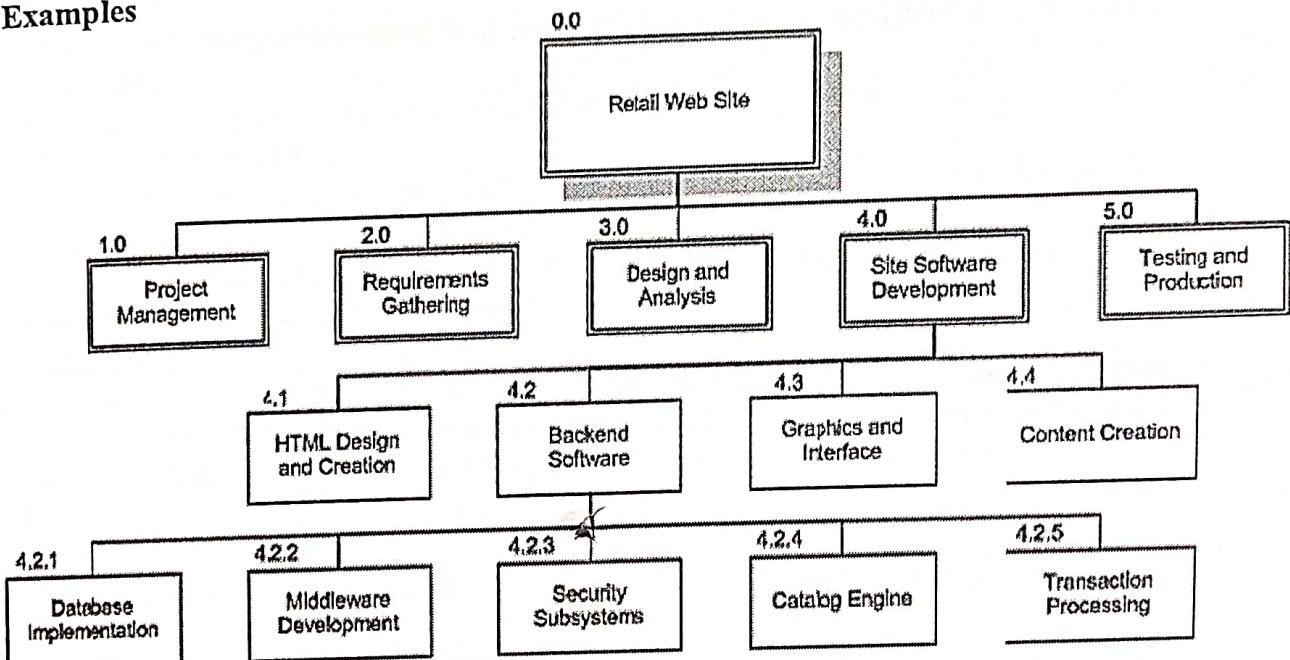
Aim

To Prepare Work breakdown structure, Timeline chart and Risk identification table

Team Members:

Sl No	Register No	Name	Role
1	RA2111003010250	KEERTHANA	Rep
2	RA2111003010240	NAMRATHA	Member
3			Member

WBS – Examples



0.0 Web Site

- ▶ 1.0 Project Management
- ▶ 2.0 Requirements Gathering
- ▶ 3.0 Analysis & Design
- ▶ 4.0 Site Software Development
 - 4.1 HTML Design and Creation
 - 4.2 Backend Software
 - 4.2.1 Database Implementation
 - 4.2.2 Middleware Development
 - 4.2.3 Security Subsystems
 - 4.2.4 Catalog Engine
 - 4.2.5 Transaction Processing
 - 4.3 Graphics and Interface
 - 4.4 Content Creation

► 5.0 Testing and Production

1. Project Management

1. Define the project's goals and boundaries.
2. Identify the project team members and stakeholders. Determine the project's funding and schedule.

2. System Design

1. Create a functional design for the system, including user interface design and database design.
2. Develop a technological design for the system, including selection of hardware and software components.

3. System Development

1. Develop and test the tour management system's software components.
2. Develop and test the system's hardware, such as the network infrastructure and any necessary tools.
3. Integrate the system's hardware and programme components.

4. System Deployment

1. Installing the trip management system at the client's location and customising it to meet their requirements.
2. Provide system training to the client's employees

5. System Maintenance and Support

1. Provide ongoing system maintenance and support, including software upgrades and bug fixes Offer technical support to the client's staff.
2. Conduct recurring system reviews to make sure the system is meeting the client's needs and is current with technological advancements.

6. Analysis and Design

1. The process of planning and supervising the creation of a system within a given timeframe, at the lowest possible cost, and with the appropriate utility is known as project management.
2. The main duty of a project manager is to oversee the numerous roles and duties that need to be carefully coordinated.

7. Testing and Production

1. Software testing is the process of assessing and confirming that a software programme or product performs as intended.
2. Testing has advantages such as bug prevention, lower development expenses, and better performance.
3. Rather than testing new code changes in a staging environment, testing in production (TIP) involves testing the updated code on actual user traffic.
4. The software that is published live to actual users is known as ~~production~~ software.

Risk Identification

a. List(Describe) Register

<Issue can be potentially occur in future and list all risks identified>

Risk ID (#)	Risk Description	Impact Description
R01	Infrastructure failure	Loss of essential functions and/or services.
R02	Software errors & failures	Desired result will not be achieved.
R03	Data security risks	Accidental or intentional unauthorized access, use and modification of system that can lead to data corruption or loss.
R04	Financial risk	Loss of capital or insufficient capital for project implementation
R05	Workforce & employee lack performance	Employee's behavior or performance fall below the required standard
R06	Strategic Risks	Untimely completion of tasks will lead to delay of timelines and milestones won't be achieved

b. Managing Risk

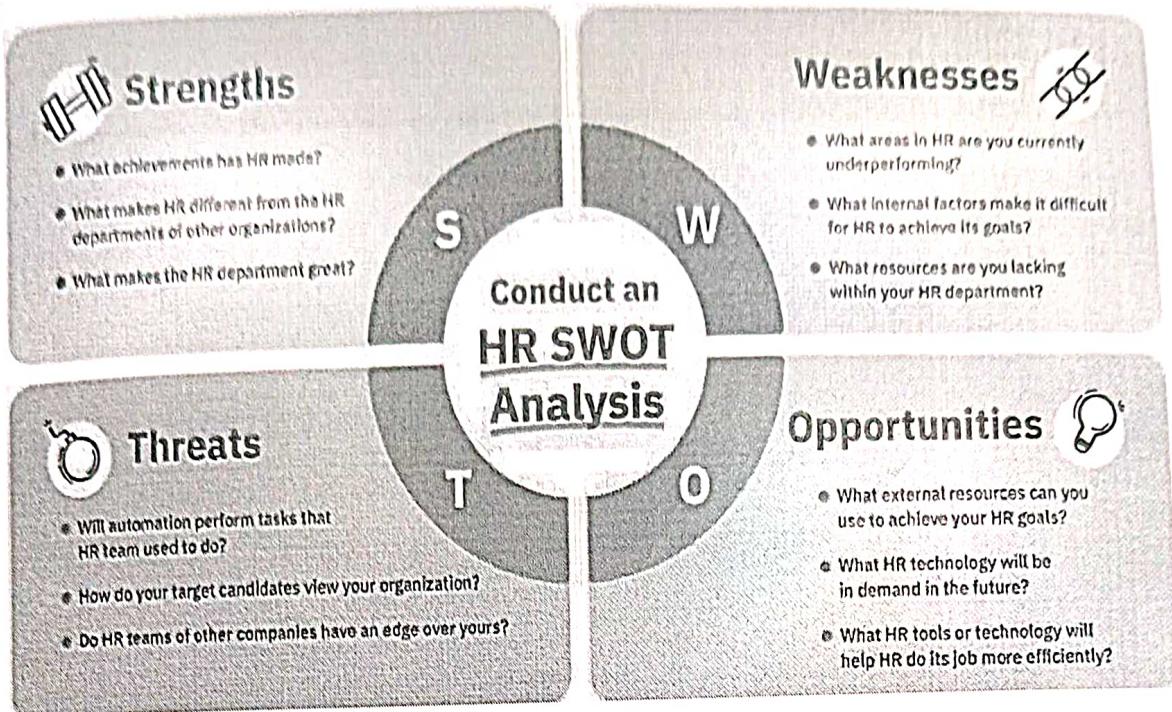
<Risk should be categorized So action can be derived to address these risks could become an issue in future>

Risk ID (#)	Risk Description	Status [Open / Closed]	Risk Appetite [Accept/ Mitigate/ Transfer/Avoid]	Action
R01	Infrastructure failure	Closed	Control	Verify infrastructure specifications with experts
R02	Software errors & failures	Open	Control	Perform regular maintenance
R03	Data security risks	Closed	Control	Protect cloud security; train staffs for admin access
R04	Financial risk	Closed	Avoid	Research for cost limitation
R05	Workforce & employee lack performance	Closed	Accept	Take employees needs and satisfaction into account; hire competent, certified, motivated workforce
R06	Strategic Risks	Open	Avoid	Provide integrated reporting and monitoring.

TIME LINE -GANTT CHART

Project Phase	January	February	March/April	May	June
Project Initiation					
Project initialization					
Project evaluation					
Identify project team					
Develop project plan					
Project Preparation					
Human resource Blueprint					
Realization					
Procure system integration tools					
Integrate HIRS					
Go-live and System Support					
Project Conclusion					
Project closure					
Document archives					

RISK ANALYSIS – SWOT & RIMM



Risk Management Framework- Risks And Mitigation ...

Response Strategy	Examples
Avoid	<p>Risk avoidance is a strategy where the project team takes action to remove the threat of the risk or protect from the impact.</p> <ul style="list-style-type: none"> • Extending the schedule • Reducing/removing scope • Change the execution strategy
Transfer	<p>Risk transference involves shifting or transferring the risk threat and impact to a third party. Rather transfer the responsibility and ownership.</p> <ul style="list-style-type: none"> • Purchasing insurance • Performance bonds • Warranties • Contract issuance (lump sum)
Mitigate	<p>Risk mitigation is a strategy where the project team takes a action to reduce the probability of the risk occurring. This does not risk or potential impact, but rather reduces the likelihood of it becoming real.</p> <ul style="list-style-type: none"> • Increasing testing • Changing suppliers to a more stable one • Reducing process complexity
Accept	<p>Risk acceptance means the team acknowledges the risk and its potential impact, but decides not to take any preemptive action to prevent it. It is dealt with only if it occurs.</p> <ul style="list-style-type: none"> • Contingency reserve budgets • Management schedule float • Event contingency

Result:

Thus, the work breakdown structure with timeline chart and risk table were formulated successfully.

(Key)



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	6
Title of Experiment	Design a System Architecture, Use Case and Class Diagram
Name of the candidate	KEERTHANA.K
Team Members	NAMRATHA
Register Number	RA2111003010250
Date of Experiment	14/3/2023

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	4
	Total	10	9

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Staff Signature with date

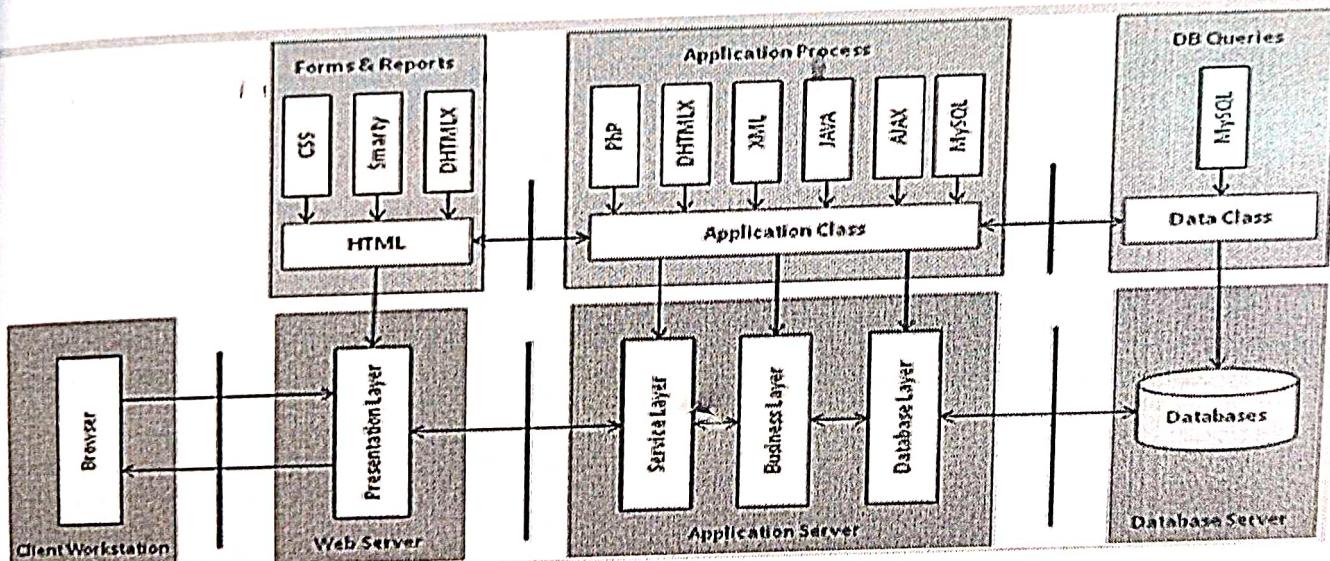
Aim

To Design a System Architecture, Use case and Class Diagram

Team Members:

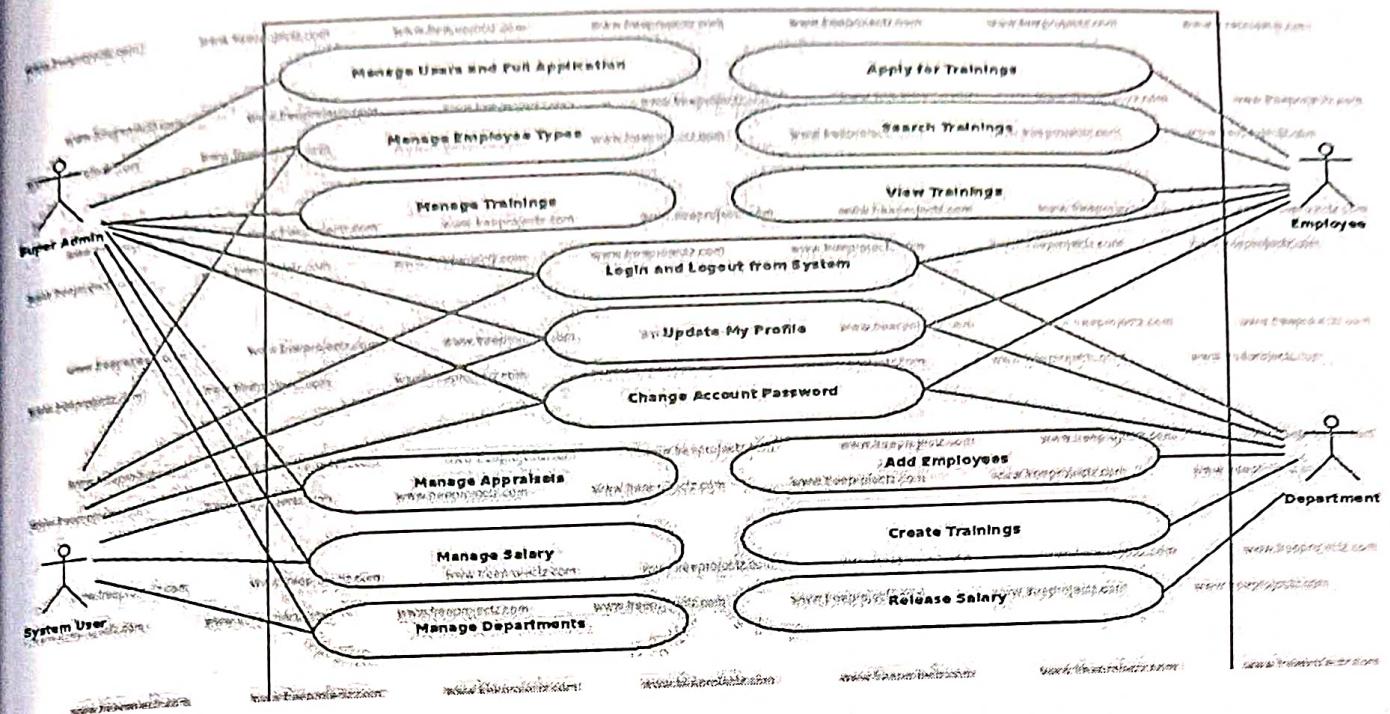
Sl No	Register No	Name	Role
1	RA2111003010250	KEERTHANA	Rep
2	RA2111003010240	NAMRATHA	Member
3			Member

System Architecture Diagram:



Usecase Diagram:

This Use Case Diagram is a graphic depiction of the interactions among the elements of Human Resource Management System. It represents the methodology used in system analysis to identify, clarify, and organize system requirements of Human Resource Management System. The main actors of Human Resource Management System in this Use Case Diagram are: HR Admin, Employee, HR Staff, Head of Organization and administrator who perform the different type of use cases such as Manage Employee, Manage Trainings, Manage Appraisals, Manage Employee Types, Manage Departments, Manage Salary, Manage Users and Full Human Resource Management System Operations.

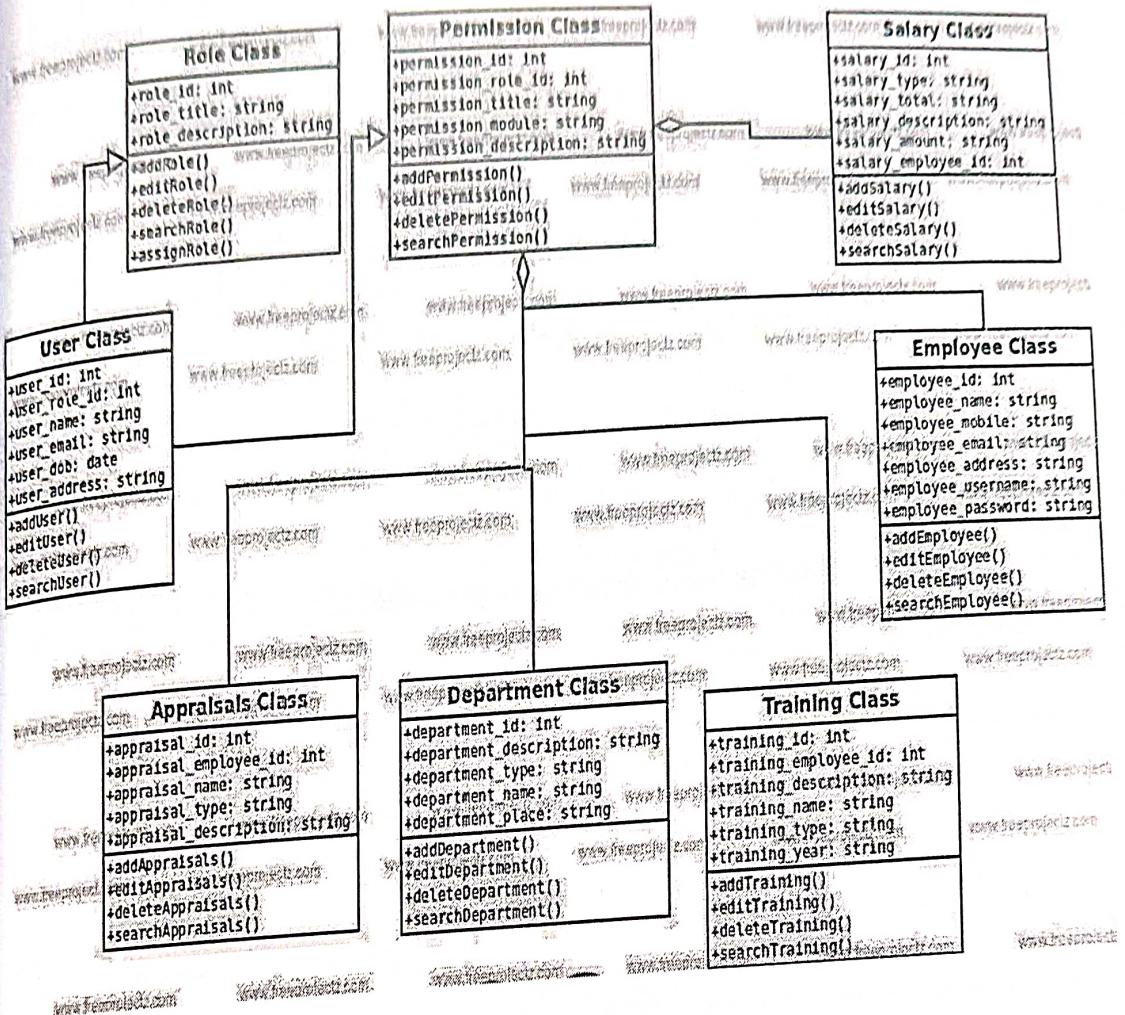


Class diagram:

Human Resource Management System Class Diagram describes the structure of a Human Resource Management System classes, their attributes, operations (or methods), and the relationships among objects. The main classes of the Human Resource Management System are Employee, Trainings, Appraisals, Departments, Salary.

Classes of Human Resource Management System Class Diagram:

- Employee Class: Manage all the operations of Employee
- Trainings Class: Manage all the operations of Trainings
- Appraisals Class: Manage all the operations of Appraisals
- Departments Class: Manage all the operations of Departments
- Salary Class: Manage all the operations of Salar



Result:

Thus, the system architecture, use case and class diagram created successfully.

Ranjith



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	7
Title of Experiment	Design a Entity relationship diagram
Name of the candidate	KEERTHANA.K
Team Members	NAMRATHA
Register Number	RA2111003010250
Date of Experiment	6/3/23

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	5
Total		10	10

Deyal
Staff Signature with date

Aim

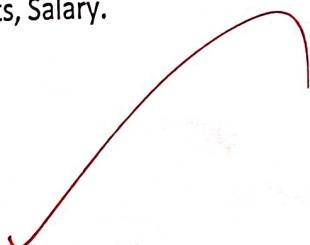
To create the Entity Relationship Diagram

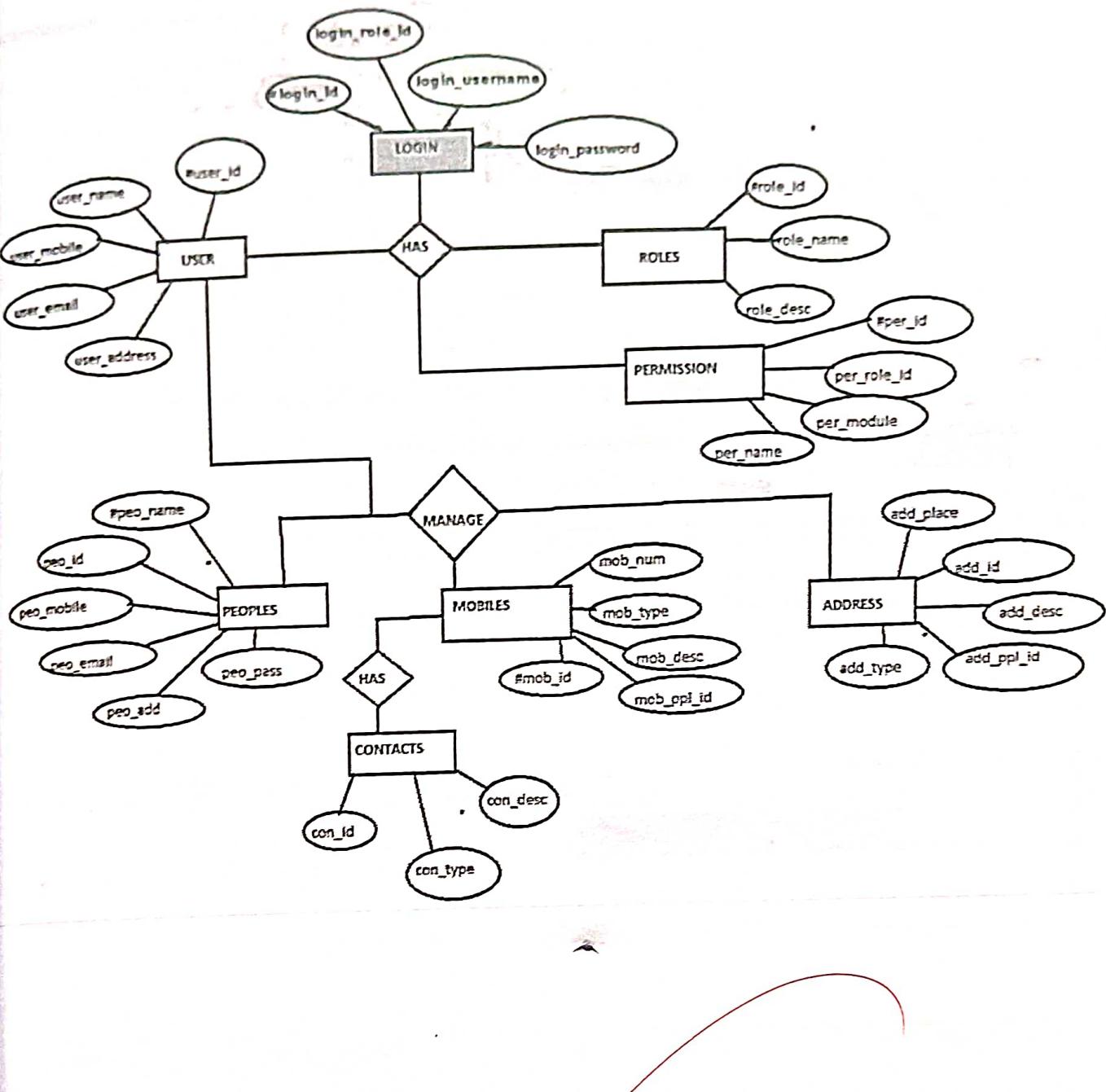
Team Members:

S No	Register No	Name	Role
1	RA2111003010250	KEERTHANA	Rep
2	RA2111003010240	M.NAMRATHA	Member
3			Member

ER Diagram

This ER (Entity Relationship) Diagram represents the model of Human Resource Management System Entity. The entity-relationship diagram of Human Resource Management System shows all the visual instrument of database tables and the relations between Trainings, Departments, Employee, Salary etc. It used structure data and to define the relationships between structured data groups of Human Resource Management System functionalities. The main entities of the Human Resource Management System are Employee, Shift, Appraisals, Departments, Salary.





Result:

Thus, the entity relationship diagram was created successfully.



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SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	8
Title of Experiment	Develop a Data Flow Diagram (Process-Up to Level 1)
Name of the candidate	KEERTHANA
Team Members	NAMRATHA
Register Number	RA2111003010250
Date of Experiment	14/3/2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	5
	Total	10	10

Staff Signature with date

Aim

To develop the data flow diagram up to level 1 for the <project name> *Human Resource Management System*

Team Members:

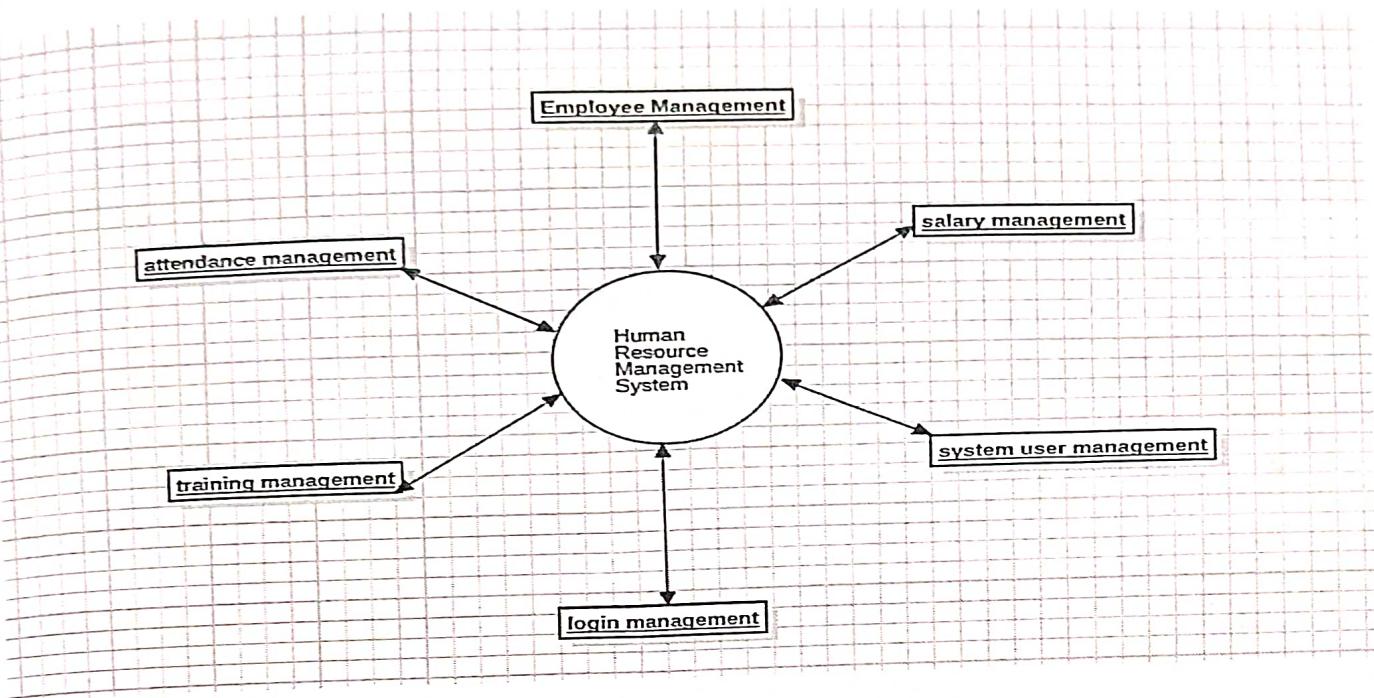
S No	Register No	Name	Role
1	RA2111003010250	KEERTHANA	Rep
2	RA2111003010240	NAMRATHA	Member

Zero Level Data Flow Diagram

This is the Zero Level DFD of Human Resource Management System, where high-level process of Human Resource is elaborated. It's a basic overview of the whole Human Resource Management System or process being analysed or modelled. It's designed to be an at-a-glance view of Leave Type, Attendance and HR Rule showing the system as a single high-level process, with its relationship to external entities of Employee and Salary.

High Level Entities and process flow of Human Resource Management System:

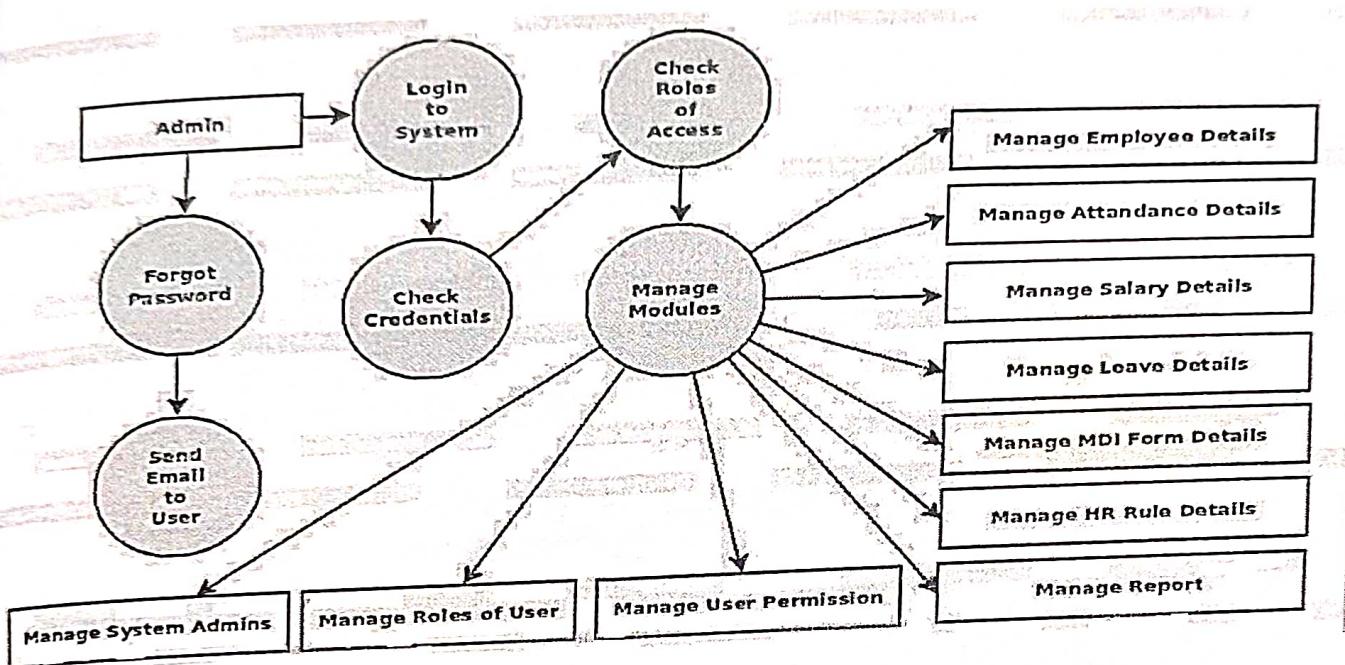
- Managing all the Employee
 - Managing all the Salary
 - Managing all the training
 - Managing all the Leave
 - Managing all the Leave Type
 - Managing all the Attendance
 - Managing all the HR Rule
- 



First Level Data Flow Diagram

First Level DFD (1st Level) of Human Resource Management System shows how the system is divided into sub-systems (processes), each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the Human Resource Management System system as a whole. It also identifies internal data stores of HR Rule, Attendance, Leave Type, Leave, Salary that must be present in order for the Human Resource system to do its job, and shows the flow of data between the various parts of Salary, Attendance, training, HR Rule, Leave Type of the system. DFD Level 1 provides a more detailed breakout of pieces of the 1st level DFD.

- Main entities and output of First Level DFD (1st Level DFD):
- Processing Employee records and generate report of all Employee
 - Processing Salary records and generate report of all Salary
 - Processing training records and generate report of all training
 - Processing Leave records and generate report of all Leave
 - Processing Leave Type records and generate report of all Leave Type
 - Processing Attendance records and generate report of all Attendance
 - Processing HR Rule records and generate report of all HR Rule



Result:

Thus, the data flow diagrams have been created for the Human Resource Management System

Deploy



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School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	9
Title of Experiment	Design a Sequence and Collaboration Diagram
Name of the candidate	Keerthana
Team Members	Namratha
Register Number	RA2111003010250
Date of Experiment	

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	A
Total		10	9

Staff Signature with date

Aim

To create the sequence and collaboration diagram for the <project name>

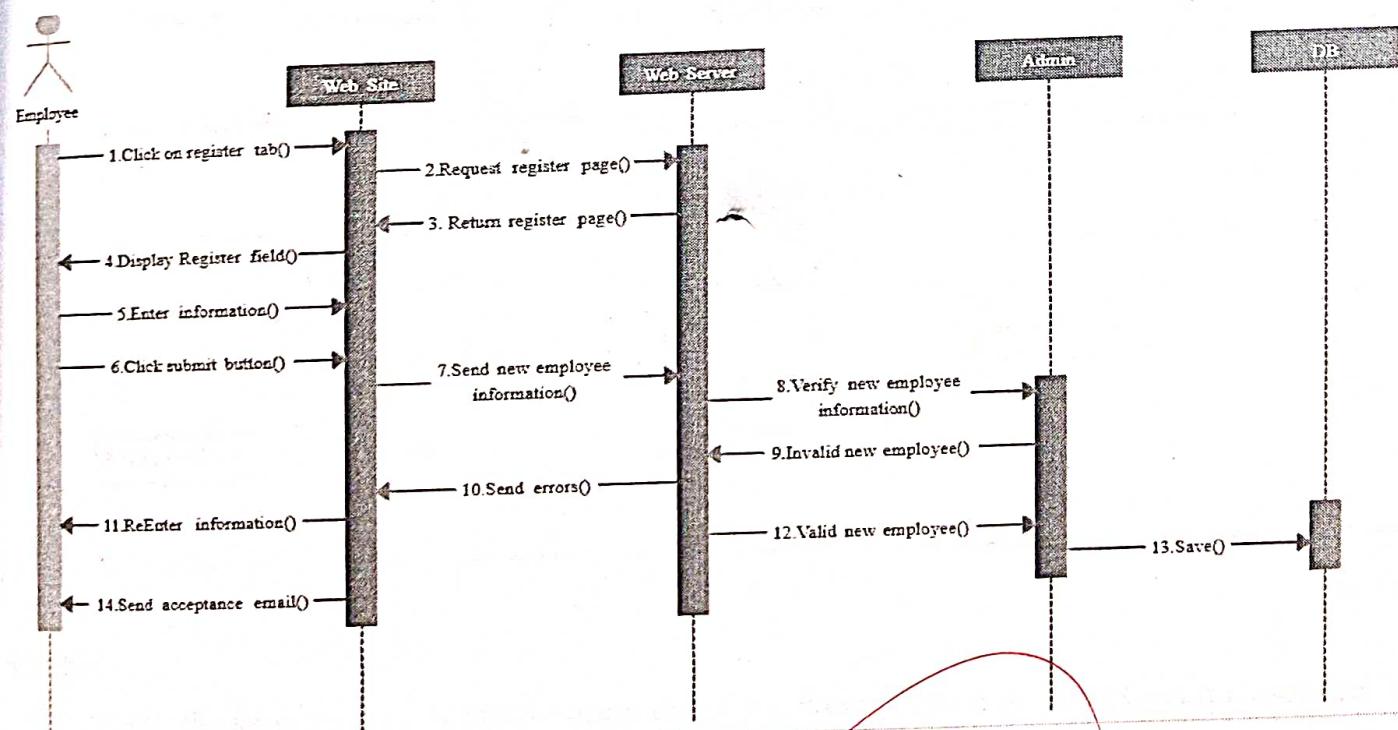
Team Members:

S No	Register No	Name	Role
1	Keerthana	RA2111003010250	Rep/Member
2	Namratha	RA2111003010240	Member

Sequence Diagram:

This is the UML sequence diagram of Human Resource Management System which shows the interaction between the objects of Employee, Appraisals, Salary, Employee Types, Departments. It contains an

1. Actor
2. Web site
3. Web server
4. Admin
5. db

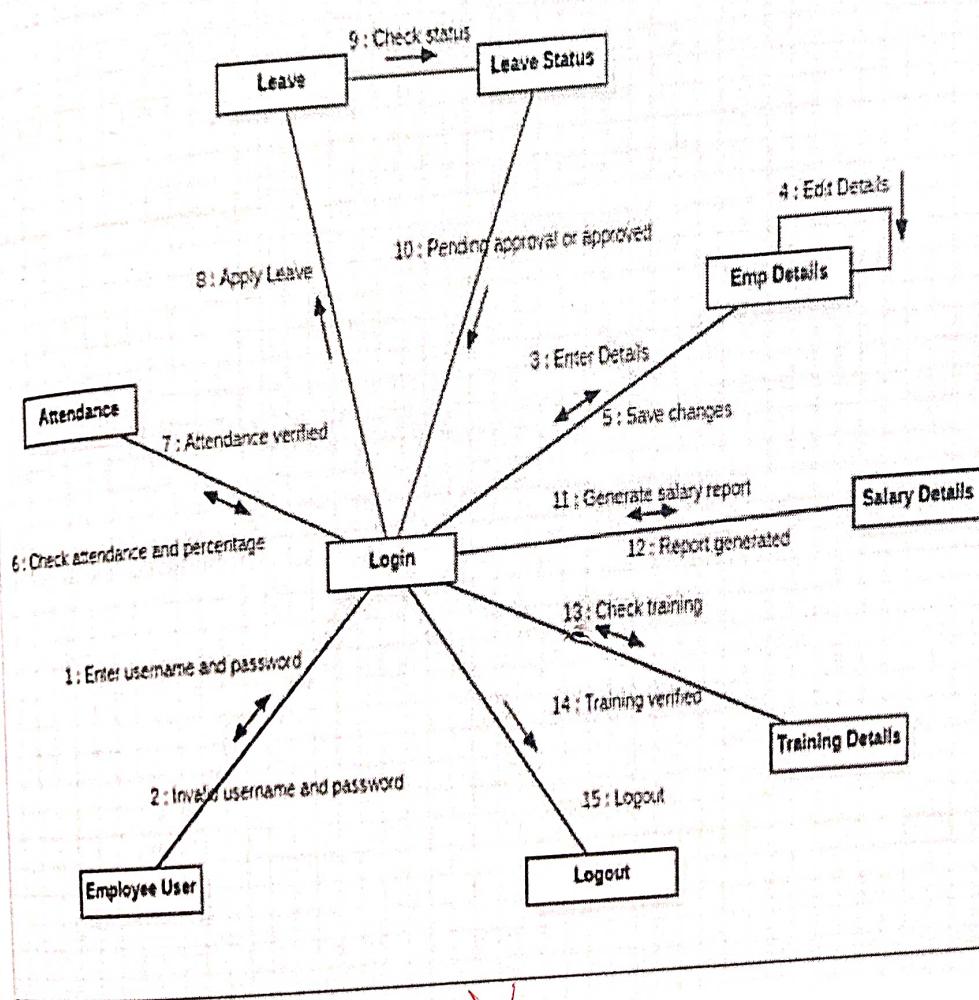


Collaboration Diagram

A collaboration diagram, also known as a communication diagram, is an illustration of the relationships and interactions among software objects. These diagrams can be used to portray the dynamic behavior of a particular use case and define the role of each object. Collaboration diagrams are created by first identifying the structural elements required to carry out the functionality of an interaction.

A model is then built using the relationships between those elements. This collaboration diagram shows the relation between different objects of HR Management system. We have objects i.e., employee user, login, attendance, leave, employee details, salary details, training details and logout. The employee can login into the server where he/she can check attendance, request leave, view salary, view training, view employee details and then logout

Interaction Collaboration Diagram - Human Resource Management System



Result:

Thus, the sequence and collaboration diagrams were created for the Human Resource Management System



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	10
Title of Experiment	Develop a Testing Framework/User Interface
Name of the candidate	Keerthana
Team Members	Namratha
Register Number	RA211103010250
Date of Experiment	21/04/23

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	4
	Total	10	9

Staff Signature with date

Deynya

Aim
To develop the testing framework and/or user interface framework for the Human resource management system.

Team Members:

S No	Register No	Name	Role
1	RA2111003010250	KEERTHANA	Rep/Member
2	RA2111003010240	NAMRATHA	Member

Master Test plan

Scope

Creating a new HR Management System application that automates payroll, attendance, management; employee leave management, employee information management, appraisal management and access control. Test the functionality of these modules and make sure it gives desired result to the customer.

Approach

While testing, both functional and non-functional features of the system are considered. A breaking strategy is managed in order to overcome this issue, we will break the system into small pieces, and then construct back. The reason behind this strategy is that firstly we will make sure that basic components are working properly on their own as they are expected and secondly, we will make sure that these properly working small components are also capable of working together correctly.

Objective

With the help of the testing platform, we are aiming to have our project with the following quality criteria being satisfied.

- Being error-free
- High performance
- Logically correctness

- Compatibility between modules
- Easy-to-use

Tasks

- Functional and Non-Functional requirements are to be tested.
- Constraints while testing are to be noted.
- Finding and handling of internal bugs are to be done.
- To ensure if the system is working as expected.

Functional Scope Testing

Functional testing will be performed to check the functions of application. The functional testing is carried out by feeding the input and validates the output from the application.

Technique

Execute each use case, use case flow, or function, using valid and invalid data, to verify the following:

The expected results occur when valid data is used.

- The appropriate error / warning messages are displayed when invalid data is used.
- Each business rule is properly applied.

Non-Functional Scope Testing

Non-Functional testing checks the Performance, reliability, responsibility and other non-functional aspects of the software system.

Out of Scope Testing

Problems related to browser extensions, ad-blockers, or virus scanners, e.g., blocking certain contents or even the execution of apps.

- Internal communication automation.
- Setup problems in tests.

Types of Testing, Methodology, Tools

CATEGORY	METHODOLOGY	TOOLS REQUIRED
Functional requirements	Manual	Excel Template
Unit Testing	Manual, Automated	NUnit

Integration Testing	Manual, Automated	SpiraTest, Rapise
System Testing	Manual, Automated	SpiraTest, Rapise

Test Deliverables

- Test Plan
- Test Strategy
- Test Case Documentation
- Defect Log
- Test Report
- Test Incident Reports
- Test Summary Reports
- Bug Reports

Result:

Thus, the testing framework/user interface framework has been created for the Human resource management system.

Bug ↗



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School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	11
Title of Experiment	Test Cases
Name of the candidate	NAMRATHA
Team Members	KEERTHANA
Register Number	RA2111003010240
Date of Experiment	14/04/2023

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	1
Total		10	9

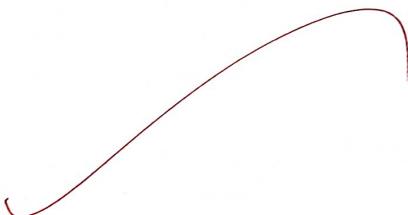
Staff Signature with date

Aim

To develop the test cases manual for the Human Resource Management System

Team Members:

S No	Register No	Name	Role
1	RA2111003010250	KEERTHANA	Rep
2	RA2111003010240	NAMRATHA	Member



TEST CASES

1. Functional Test Cases

Test Case ID (#)	Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remarks
TC01	Login ✓	1. Don't accept invalid username	1. User clicks on Login 2. Enter the username 3. System checks if username is available in the database login table. 4. Message display "User does not exist"	Error display: User does not exist	Error display: User does not exist	Pass	Success
		2. Accept Valid and registered Username	4. System verifies and goes to password textbox.	User taken to password textbox.	User taken to password textbox.	Pass	Success
		3. Don't accept invalid password	5. Message display "Wrong password"	Error display: Wrong password	Error display: Wrong password	Pass	Success
		4. Accept valid password	5. Welcome message display and go to home page.	User taken to the homepage.	User taken to the homepage.	Pass	Success
TC02	Department ✓	1. Create new department	1. Enter name and press save	Department object created	Department object created	Pass	Success
		2. View department	1. Enter department page	Departments are shown on the page	Departments are shown on the page	Pass	Success
		3. Update department	1. Press edit button 2. Change name and press save	Department view in a text boxes to edit. Message display "department updated".	Department view in a text boxes to edit. Message display "department updated".	Pass	Success

C03	To manage Employee record	4. Delete department	1. Press delete button	Message display "department deleted". Department object destroys.	Message display "department deleted". Department object destroys.	Pass	Success
		5. Assign employee to department	1. Select department 2. Select employee and save	Employee assigned to department	Employee assigned to department	Pass	Success
		1. Insert employee information	1. Enter employee details and press save	Employee record created.	Employee record created.	Pass	Success
		2. Update information	1. Press edit button 2. Change employee details and press save	Employee record view in a text boxes to edit. Message display "Employee record updated".	Employee record view in a text boxes to edit. Message display "Employee record updated".	Pass	Success
		3. Delete particular employee record	1. Press delete button	Message display "Employee record deleted". Employee record object destroys.	Message display "Employee record deleted". Employee record object destroys.	Pass	Success
C04	Payroll	1. Calculate salary	1. Input employee number and pay (basic, special, DA, HRA and other allowances), earning arrears and official pay. 2. Calculate and display gross and net salary	Gross and net salary of employee is displayed	Gross and net salary of employee is displayed	Pass	Success
		2. Schedule salary to employee	3. Select the employee and save	Salary assigned to employee	Salary assigned to employee	Pass	Success

Leave	1. Request leave	1. Enter leave type, enter number of days	Message display "Leave added"	Message display "Leave added"	Pass	Success
	2. View leave	1. Enter leave page	Leaves are shown on the page	Leaves are shown on the page	Pass	Success
	3. Update leave	1. Press edit button 2. Change leave type, enter number of days and press save	Leave type and number of days view in a text boxes to edit. Message display "Leave updated".	Leave type and number of days view in a text boxes to edit. Message display "Leave updated".	Pass	Success
	4. Delete leave	1. Press delete button	Message display "leave deleted". Leave object destroys.	Message display "leave deleted". Leave object destroys.	Pass	Success

I. Non-Functional Test Cases

Test ID (#)	Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remarks
TC01	Loading time	Check time of loading	To load the next page	Site loaded within 3 seconds.	Site loaded within 3 seconds.	Pass	Success
TC02	Load test	Checking how many users can log in	Login with multiple users to check website efficiency.	Site working with no errors.	Site working with no errors.	Pass	Success
TC03	Responsive test	Responsiveness in different devices	Check responsiveness by using the website on devices having different screen sizes.	Efficient working with all devices.	Efficient working with all devices.	Pass	Success
TC04	Stress test	Overall functioning	To check how all	Working efficiently.	Working efficiently.	Pass	Success

		non-functional test cases are working together.				
05 Reliability	Check whether software is running without fail	Must run for a specific time and number of processes	Working efficiently.	Working efficiently.	Pass	Success

Result:

Thus, the test plan and test cases are documented successfully.

(Signed)



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	12
Title of Experiment	Manual Test Case Reporting
Name of the candidate	Keerthana
Team Members	Namratha
Register Number	RA2111003010250
Date of Experiment	

Mark Split Up

S.No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	4
	Total	10	9

Staff Signature with date

Aim To prepare the manual test case report for the Human Resource Management System.

Team Members:

S No	Register No	Name	Role
1	Keerthana	RA2111003010250	Rep/Member
2	Namratha	RA2111003010240	Member

Master Test plan

Scope:

Creating a new HR Management System application that automates payroll, attendance management; employee leave management, employee information management, appraisal management and access control. Test the functionality of these modules and make sure it gives desired result to the customer.

Approach

While testing, both functional and non-functional features of the system are considered. A breaking strategy is managed in order to overcome this issue, we will break the system into small pieces, and then construct back. The reason behind this strategy is that firstly we will make sure that basic components are working properly on their own as they are expected and secondly, we will make sure that these properly working small components are also capable of working together correctly.

Objective

With the help of the testing platform, we are aiming to have our project with the following quality criteria being satisfied.

- Being error-free
- High performance
- Logically correctness

, Compatibility between modules

, Easy-to-use

asks

Functional and Non-Functional requirements are to be tested.

Constraints while testing are to be noted.

Finding and handling of internal bugs are to be done.

To ensure if the system is working as expected.

Functional Scope Testing

Functional testing will be performed to check the functions of application. The functional

testing is carried out by feeding the input and validates the output from the application.

Technique

Execute each use case, use case flow, or function, using valid and invalid data, to verify the

following:

The expected results occur when valid data is used.

The appropriate error / warning messages are displayed when invalid data is used.

Each business rule is properly applied.

Non-Functional Scope Testing

Non-Functional testing checks the Performance, reliability, responsibility and other non-

functional aspects of the software system.

Out of Scope Testing

Problems related to browser extensions, ad-blockers, or virus scanners, e.g., blocking

certain contents or even the execution of apps.

Internal communication automation.

Setup problems in tests.

Category	Progress Against Plan	Status
Functional Testing	Green	Completed
Non-Functional Testing	Green	Completed
Unit Testing	Green	Completed
Integration Testing	Green	Completed

Functional	Test Case Coverage (%)	Status
Module 1: Login	100%	Completed
Module 2: Department	100%	Completed
To manage Employee record	100%	Completed
Payroll	100%	Completed
Leave	100%	Completed

Result:

Thus, the test case report has been created for the Human Resource Management System.





School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	13
Title of Experiment	Provide the details of Architecture Design/Framework Implementation
Name of the candidate	Keerthana
Team Members	Namratha
Register Number	RA2111003010250
Date of Experiment	

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	4
	Total	10	9

Staff Signature with date

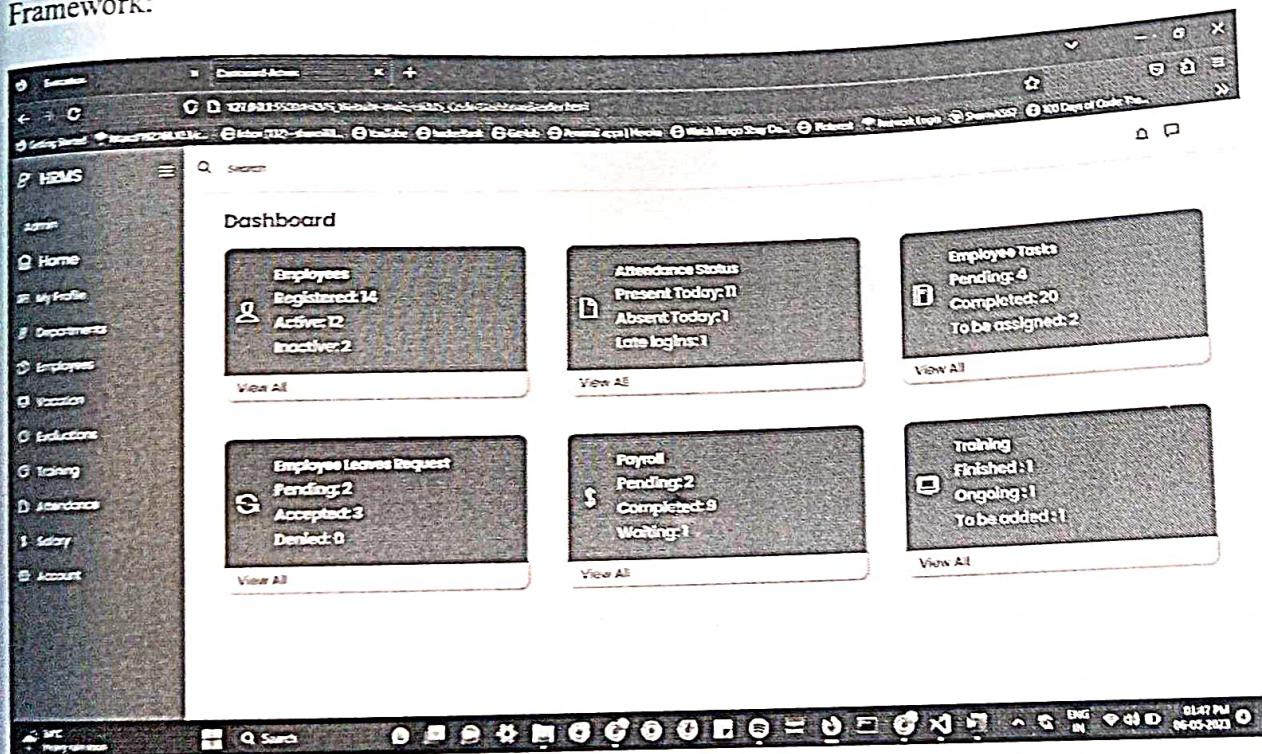
Aim

To Provide the details of Architecture Design/Framework Implementation

Team Members:

S No	Register No	Name	Role
1	Keerthana	RA2111003010250	Rep/Member
2	Namratha	RA2111003010240	Member

Framework:



Implementation: Departments for the employee

The screenshot shows the HRMS application interface. On the left, a vertical sidebar lists various modules: Admin, Home, My Profile, Departments, Employees, Vacation, Evaluations, Training, Attendance, Salary, and Account. The 'Departments' module is selected. At the top, there is a search bar and a 'View' button. Below the search bar, there are two main buttons: 'Departments Add New Department' and 'Departments Department List'. Both buttons have a 'View' button below them.

Training :

The screenshot shows the HRMS application interface. The sidebar on the left is identical to the previous one, with 'Departments' selected. At the top, there is a search bar and a 'View' button. Below the search bar, there are three main buttons: 'Training Training List', 'Training Create New Training', and 'Training Add User to training'. Each button has a 'View' button below it.

Result: Thus, the details of architectural design/framework/implementation along with the screenshots were provided.

Q&A

Q&A



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School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	14
Title of Experiment	Provide the code implementation
Name of the candidate	Keerthana
Team Members	Namratha
Register Number	RA2111003010250
Date of Experiment	

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	5
2	Viva	5	4
	Total	10	9

Staff Signature with date

Aim

To provide the details of code implementation

Team Members:

S No	Register No	Name	Role
1	Keerthana	RA2111003010250	Rep/Member
2	Namratha	RA2111003010240	Member

File Edit Selection View Go Run Terminal Help

Index.html - HRMS_Website-main - Visual Studio Code

EXPLORER # app.css # DDMS_Mini_Project_Report_P_POO/A/compressed.pdf Index.html

HRMS_Website-main > HRMS_Code > EvaluationsPage > Index.html

```
1 <!DOCTYPE html>
2 <html>
3 
4 <head>
5   <meta charset="utf-8">
6   <title>Evaluations</title>
7   <link rel="stylesheet" type="text/css" href="app.css">
8   <link rel="stylesheet" type="text/css"
9     href="https://cdn.jsdelivr.net/npm/themify-icons@0.1.2/css/themify-icons.css">
10 </head>
11 
12 <body>
13   <div class="he">
14     <div class="sidebar">
15       <div class="sidebar-header">
16         <h1 class="brand">
17           <span class="ti-unlink"></span>
18           <a href="..//HomePage/Index.html">HRMS</a>
19         </h1>
20         <span class="ti-menu-alt"></span>
21       </div>
22       <div class="sidebar-menu">
23         <ul>
24           <li>
25             <a href="#">
26               <span>Admin</span>
27             </a>
28           </li>
29           <li>
30             <a href="..//Dashboard/Index.html">
```

140 Col 26 Sub Size A UTF-8 CRLF HTML ⚡ Port: 5500 ✅ Pratik 08:12 PM 05-05-2023

File Edit Selection View Go Run Terminal Help

Index.html - HRMS_Website-main - Visual Studio Code

```
115 <div class="main-content">
116   <header>
117     <div class="search-wrapper">
118       <input type="search" name="placeholder-search" />
119     </div>
120     <div class="nav-links">
121       <a href="#">Home
122       <a href="#">About
123       <a href="#">Services
124       <a href="#">Contact
125     </div>
126   </header>
127   <main>
128     <h1>Welcome to Our Company</h1>
129     <p>We are a leading provider of high-quality services. Our mission is to provide exceptional customer service and support. We offer a wide range of services, including consulting, training, and implementation. We are committed to our clients' success and strive to exceed their expectations. Thank you for visiting our website!</p>
130     <div class="dash-cards">
131       <div class="card-single">
132         <div class="card-body">
133           <span class="ti-pencil-alt"></span>
134         </div>
135       </div>
136       <div class="card-single">
137         <div class="card-body">
138           <span class="ti-pencil-alt"></span>
139         </div>
140       </div>
141     </div>
142   </main>
143 </div>
```

File Edit Selection View Go Run Terminal Help

Index.html - HRMS_Website-main - Visual Studio Code

```
115 <div class="main-content">
116   <header>
117     <div class="search-wrapper">
118       <input type="search" name="placeholder-search" />
119     </div>
120     <div class="nav-links">
121       <a href="#">Home
122       <a href="#">About
123       <a href="#">Services
124       <a href="#">Contact
125     </div>
126   </header>
127   <main>
128     <h1>Welcome to Our Company</h1>
129     <p>We are a leading provider of high-quality services. Our mission is to provide exceptional customer service and support. We offer a wide range of services, including consulting, training, and implementation. We are committed to our clients' success and strive to exceed their expectations. Thank you for visiting our website!</p>
130     <div class="dash-cards">
131       <div class="card-single">
132         <div class="card-body">
133           <span class="ti-pencil-alt"></span>
134         </div>
135       </div>
136       <div class="card-single">
137         <div class="card-body">
138           <span class="ti-pencil-alt"></span>
139         </div>
140       </div>
141     </div>
142   </main>
143 </div>
```

File Edit Selection View Go Run Terminal Help

EXPLORER

- HRMS WEBSITE-MAIN
- HRMS_Website-main
 - HRMS_Code
 - Dashboard
 - DepartmentAdd
 - DepartmentList
 - DepartmentPage
 - EvaluationsAdd
 - EvaluationsList
 - EvaluationsPage
 - app.css
 - index.html
 - HomePage
 - img
 - login
 - TrainingAdd
 - TrainingAddUser
 - TrainingList
 - TrainingPage
- connect.php
- connect2.php
- DBMS_Mini_Project_Report_P POOL...
- README.md

OUTLINE

TIMELINE

00:00

ITC Party sunny

Index.html - HRMS_Website-main - Visual Studio Code

app.css

133 <!-- DBMS_Mini_Project_Report_P POOL_A_compressed.pdf --> index.html

134 <div> Evaluations </div>

135 Add Evaluation

136 </div>

137 </div>

138 <div class="card-footer">

139 View

140 </div>

141 </div>

142 </div>

143 </div>

144 </div>

145 </main>

146 </div>

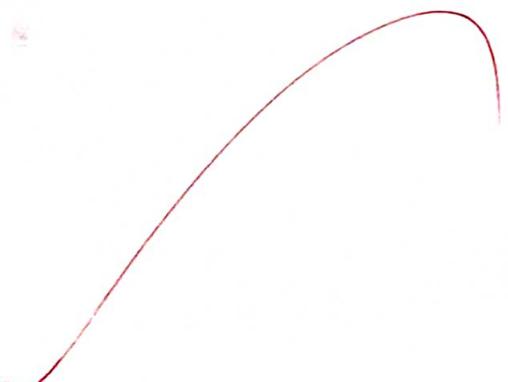
147 </div>

148 </body>

149 </html>

150 </>

Ln 40 Col 26 Tab Size 4: UTF-8 CRLF: HTML: Port: 5500: Paste: R: Q



A screenshot of a code editor window titled "index.html - HRMS_Website-main - Visual Studio Code". The code is an HTML file with some CSS and JavaScript. The code includes navigation links for "Dashboard", "DepartmentAdd", "DepartmentList", "DepartmentPage", "EvaluationsAdd", "EvaluationsList", "TrainingAdd", "TrainingList", "TrainingPage", and "Salary". It also includes a sidebar menu with "Home", "Login", "Attendance", "Training", "Salary", and "Account". The code uses Bootstrap classes like "active", "ti-pie-chart", "ti-money", and "ti-settings". The status bar at the bottom shows "Ln 48 Col 26 Tab Size 4 UTF-8 CRLF HTML ⚡ Port:5500 ⚡ Prettier R D 09:00 PM 06-05-2023".

A screenshot of a code editor window titled "index.html - HRMS_Website-main - Visual Studio Code". This view shows the same index.html file with the same code structure and navigation links. The status bar at the bottom shows "Ln 44 Col 26 Tab Size 4 UTF-8 CRLF HTML ⚡ Port:5500 ⚡ Prettier R D 02:12 PM 06-05-2023". A red arrow points from the text "Result:" to this screenshot.

Result:

Thus, the details of code implementation along with the screenshots were provided.

Appendix

Code:

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8">
    <title>Evaluation</title>
    <link rel="stylesheet" type="text/css" href="app.css">
    <link rel="stylesheet" type="text/css"
          href="https://cdn.jsdelivr.net/gh/lykmapipo/themify-
          assets@0.1.2/css/themify-icons.css">
</head>

<body>
    <div class="he">
        <div class="sidebar">
            <div class="sidebar-header">
                <h3 class="brand">
                    <span class="ti-unlink"></span>
                    <a href="#">..</a>
                    <span class="ti-menu-alt"></span>
                </h3>
            </div>
            <div class="sidebar-menu">
                <ul>
                    <li>
                        <a href="#">
                            <span>Admin</span>
                        </a>
                    </li>
                    <li>
                        <a href="#">
                            <span class="ti-home"></span>
                            <span>Home</span>
                        </a>
                    </li>
                    <li>
                        <a href="#">
                            <span class="ti-id-
                                badge"></span>
                            <span>My Profile</span>
                        </a>
                    </li>
                    <li>
                        <a href="#">
                            <span class="ti-link"></span>
                            <span>Departments</span>
                        </a>
                    </li>
                    <li>
                        <a href="#">
                            <span class="ti-files"></span>
                            <span>Employees</span>
                        </a>
                    </li>
                </ul>
            </div>
        </div>
    </div>
</body>
```

```
<||>
<a href="">
    <span class="ti-*
        <span>Vacation</span>
    </a>
</li>
<li class="active">
    <a href="../EvaluationsPage/index.html">
        <span class="ti-pic-
            <span>Evaluations</span>
        </a>
    </li>
<li>
    <a href="../TrainingPage/index.html">
        <span class="ti-pic-
            <span>Training</span>
        </a>
    </li>
<li>
    <a href="">
        <span class="ti-file"></span>
        <span>Attendance</span>
    </a>
</li>
<li>
    <a href="">
        <span class="ti-money"></span>
        <span>Salary</span>
    </a>
</li>
<li>
    <a href="">
        <span class="ti-settings"></span>
        <span>Account</span>
    </a>
</li>
</ul>
</div>
</div>
<div class="main-content">
    <header>
        <div class="search-wrapper">
            <span class="ti-search"></span>
            <input type="search" name="" placeholder="Search">
        </div>
    </header>
    <div class="content">
        <h1>Dashboard</h1>
        <p>Welcome to the Dashboard! Here you can manage your vacation requests, evaluations, training sessions, attendance, salary, and account settings. Click on the links below to get started.</p>
        <ul>
            <li><a href="#">Vacation</a></li>
            <li class="active"><a href="../EvaluationsPage/index.html">Evaluations</a></li>
            <li><a href="../TrainingPage/index.html">Training</a></li>
            <li><a href="#">Attendance</a></li>
            <li><a href="#">Salary</a></li>
            <li><a href="#">Account Settings</a></li>
        </ul>
    </div>
</div>
```

```
</div>
<div class="social-icons">
    <span class="ti-bell"></span>
    <span class="ti-comment"></span>
    <div></div>
</div>
</header>
<main>
    <section>
        <a href="../EvaluationsPage/index.html">
            <h2 class="dash-title">Evaluations</h2>
        </a>
        <div class="dash-cards">
            <div class="card-single">
                <div class="card-body">
                    <span class="ti-
list"></span>
                <div>
                    <h5>Evaluations</h5>
                    <a href="#">
                        <h4>Evaluations List</h4>
                        </a>
                    </div>
                    <div>
                        <div class="card-footer">
                            <a href="#">View</a>
                            </div>
                        </div>
                    <div class="card-single">
                        <div class="card-body">
                            <span class="ti-pencil">
                                </span>
                            <div>
                                <h5>Evaluations</h5>
                                <a href="#">
                                    <h4>Add
                                aluation</h4>
                                    </a>
                                </div>
                                <div class="card-footer">
                                    <a href="#">View</a>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </section>
</main>
</div>
```

Conclusion:

The proposed system of HR module is the right software to be incorporated into the automation of Human Resource Management System for helping the organization needs with respect to skilful human resource. The proposed system provides detail general information about the employee along with educational, certification, skill and project details.

It enhances the human resource management in adding, viewing and updating employees' details and generates various reports regarding employee's skill and experience.

The web-based HRMS for will be proposed to increase the performance and organization of the entire range of human resources management services by developing these sections:

1. HR management Information system
2. Compute the net salary after adding salary, promotions percentage and loans.
3. Detailed reports section.
4. Direct email communication.
5. Statistical data charts.
6. Training section
7. Vacations section
8. Appraisal
9. Performance evaluation

REFERENCES:

1. <https://www.pmi.org/>
2. <https://www.projectmanagement.com/>