

HRM & Task Allocation

Supervisor: *LÊ THANH NHÂN*

Semester: *II*

Batch No: *T5.2306.E1*

Group No: *III*

Order:	Full name	Roll No.
1.	LÊ TRỌNG NGHĨA	Student1477172
2.	NGUYỄN ĐỨC LINH	Student1477171
3.	TRẦN MINH QUANG	Student1477192

Month:04 Year:2024

This is to certify that

Mr. LÊ TRỌNG NGHĨA

Mr. NGUYỄN ĐỨC LINH

Mr. TRẦN MINH QUANG

Have successfully Designed & Developed

HRM & Task Allocation

Submitted by:

Mr. LE THANH NHAN

Date Of Issue:

Authorized Signature:

Content

Content

Acknowledge

Synopsis

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Acknowledge

Receiving support from all sides is a vital part of a successful project, and we cannot express enough gratitude to everyone who contributed to our project.

Our project is not just a learning environment but also a journey of creativity, learning, and experimentation. We've turned an idea from textbooks into reality, from theory into practice, thanks to the dedication and support of our teachers, colleagues, and friends.

In particular, we'd like to extend our sincere thanks to our professor, Mr. Le Thanh Nhan, who shaped and supported us throughout the project. His lessons, encouragement, and guidance not only helped us progress in the project but also stood by us when we faced challenges and difficulties.

Additionally, we'd like to acknowledge all other team members and friends who contributed ideas, time, and effort to support us. Alongside that, we cannot forget the support from APTECH in India, which provided us with the opportunity to practice and learn from industry-leading experts.

Finally, we understand that the project is not just about creating applications and products but also about building skills, teamwork, and courage. We are proud of what we have achieved and will continue to learn and grow in the future.

Thank you sincerely, and we wish everyone health and success.

Best regards,

Project Team 03

Synopsis

Our project aims to provide an engaging and useful desktop application, written in Java programming language and utilizing the JavaFX Framework. The main objective of the project is to apply the learned knowledge into real-life situations, addressing practical issues, and contributing to the improvement of skills and knowledge.

Project Features:

- **Hands-on Application:** This project offers us a practical hands-on opportunity. Instead of focusing solely on theory, we establish a robust practical environment to help students develop real-world skills.
- **Building Larger Applications:** By working on this project, we have the chance to develop a larger and more complex desktop application, from user interface design to handling intricate data processing.
- **Utilizing JavaFX Framework:** We have chosen JavaFX as the primary framework for building the application. This enhances performance and flexibility.

This project is not only an opportunity to apply knowledge into practice but also a significant step in developing programming skills and creativity. We hope that the project will meet the expectations set by the team during research and development.

Review 01

Design Plan: HRM & Task Allocation	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
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Problem Definition

A company operating in the Media sector with hundreds of employees focuses on creativity and managing digital content. With such a large scale, departmental management and task allocation become more complex than ever. Using management tools like MS Excel and MS Project is no longer suitable for the company. Several issues arise, including consistent data synchronization regarding personnel changes within the company, streamlining the task assignment process, monitoring the actual progress of tasks achieved, as well as analyzing and evaluating the quality of work. The company decides it's necessary to have an application to manage and assign tasks to employees, based on their departments and levels. Based on the needs outlined above, we design an application to provide solutions for the company's management needs. The application we design will provide the following features and functionalities:

1. The application provides different interfaces and functions depending on the user's level (Management functions for managers, task reception, execution, and reporting functions for employees performing tasks).
2. The application can display assigned tasks, as well as overdue tasks for each employee based on the assignment by Departure managers.
3. The application also provides the ability to display work plans for the next phase of each employee, or employees can set their own goals and tasks for the upcoming period for self-execution.

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Design Plan: HRM & Task Allocation	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
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4. The application provides features for Managers to assign tasks to assigned employees, including: assigned tasks, detailed task content, start and completion times of tasks, etc.
5. Evaluation function of task completion level according to KPI, based on completion level, execution time, compliance attitude towards the task, etc.
6. Provide analysis charts of task completion levels for each individual, team, department, based on which, evaluate the achieved and unachieved aspects of personnel as well as the department to devise plans to improve work efficiency.

The Role of User and Admin:

1. Staff by Role:

- Access assigned work tasks and full-fill requirements according to the task schedule.
- Create new tasks for oneself, in addition to assigned work tasks.
- Submit completion reports for tasks.

2. Manager by Role:

- Assign work tasks to employees according to the task schedule.
- Notify of any changes in the execution of assigned tasks, if any.
- Evaluate the completion level of employees' tasks.

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Design Plan: HRM & Task Allocation	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
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3. Administrator

- Top level and manage all system

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Design Plan: HRM & Task Allocation	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRSVer1.0
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Customer Requirements Specifications

I. CRS/Requirements Specifications

Client/Project Undertaken:

- List of inputs to the system
 - Staff's data.*
 - List of employees' work tasks.*
 - Progress of the project being undertaken.*
 - Employees' workdays and days off.*
- List of outputs expected from the system
 - Handling assigned work tasks.*
 - Proposing and addressing project-related issues.*
 - Reporting on the progress and results of work tasks.*
- Overview of processes involved in the system
 - Displaying work task information.*
 - Notifying of any new updates related to tasks.*
 - Evaluating the completion level of tasks.*

Manager/Project Undertaken:

- List of inputs to the system
 - Employees' data.*
 - List of employees' work tasks.*
 - Progress of the project being undertaken.*
 - Employees' workdays and days off.*
- List of outputs expected from the system
 - Assigning work tasks to employees.*
 - Evaluating employees' task execution.*
 - Proposing project-related issues.*
 - Approving employees' requests.*
- Overview of processes involved in the system
 - Displaying work task information.*
 - Notifying of any new updates related to tasks.*
 - Conducting evaluations on task completion level.*

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Design Plan: HRM & Task Allocation	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRSVer1.0
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Admin/Project Undertaken:

1. List of inputs to the system
Account role data
2. List of outputs expected from the system
Process staff's data and Role account
3. Overview of processes involved in the system
Employee account role information.
Creating new accounts, handling locked accounts.
Implementing user permissions for accounts.

Hardware and software required for implementing the project	
1.	<i>Operating system: Windows 10 higher</i>
2.	<i>Hardware: CPU Cores with 2 Gigabytes of RAM or better</i>
3.	<i>Font Unicode: Arial, Tahoma, Lucida Console, Times New Roman, etc...</i>
4.	<i>Other requirement: A working internet connection</i>

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Design Plan: HRM & Task Allocation	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRSVer1.0
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II. CRS/Customer Acceptance Criteria

S.No	Customer's Acceptance Criteria	
1	Given Staff Role	
	-	When managing personal information of employees, users can view and update certain fields.
	-	When managing tasks, users can view, add, edit, and delete certain fields within tasks.
	-	When performing tasks, users can request necessary resources.
	-	When performing attendance tracking, users can view the number of working days and receive error notifications.
2	Given Manager Role	
	-	When managing personal information of employees, users can view, add, update, and delete certain fields.
	-	When managing tasks, users can view, add, edit, and delete certain fields within tasks.
	-	When requested by employees, users can allocate resources as needed.
	-	When performing attendance tracking, users can view, edit, and update the number of working days.
3	Given Administrator	
	-	When managing roles, users can view, add, edit, and delete employees in the role list.

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Design Plan: HRM & Task Allocation	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRSVer1.0
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III. Project Plan

1. Project Details	
+	Name of the Client:
	HRM & Task Allocation
+	Date of Project Plan:
	15/04/2024 – 25/5/2024
+	Project Vision/Objectives:
	Develop a comprehensive software solution to streamline personnel management and task allocation processes.
	Enhance productivity and efficiency within the organization by providing a user-friendly application tailored to the needs of HR managers and employees.
	Improve data synchronization, task assignment, and progress monitoring to overcome existing challenges and barriers in traditional management approaches.
+	Scope:
	The scope of the project involves creating a software application to manage personnel and task allocation within a large-scale company.
+	Our understanding of the client organization:
	The organization's processes involve managing personnel changes, task assignment, monitoring task progress, evaluating performance, and analyzing departmental achievements and shortcomings to improve overall efficiency.
+	Project Organization with Responsibilities and Authorities:
	Project Name: HRM & Task Allocation
+	Role: Team leader, design, dev, tester
2. Project Initiation/Requirement Documents	
	Design Documentation
	Installation guide
	User guide
3. Deliverables	
	Design Documentation
	Installation guide
	User guide
	Source code

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Design Plan: HRM & Task Allocation	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRSVer1.0
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4. Project Dependencies	
	New technology by Java Fx
5. Major Project Milestones	
	Review 01
	Review 02
	Review 03
6. Quality Plan	
+	Review, Testing, Backup Activities:
	Final review

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Review 02

Design Plan: HRM & Task Allocation	Document Name: Architecture and design of the Application	SWD/Form No.03/ARD/Ver1.0
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Architecture and design of the Application

I. Application Architecture

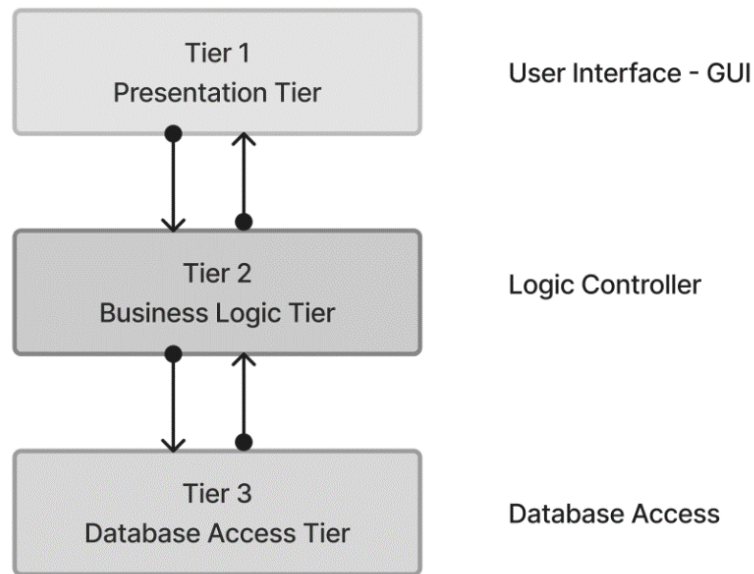


Figure F1: 3 tiers Layer for the Application

II. Data Flow Diagram

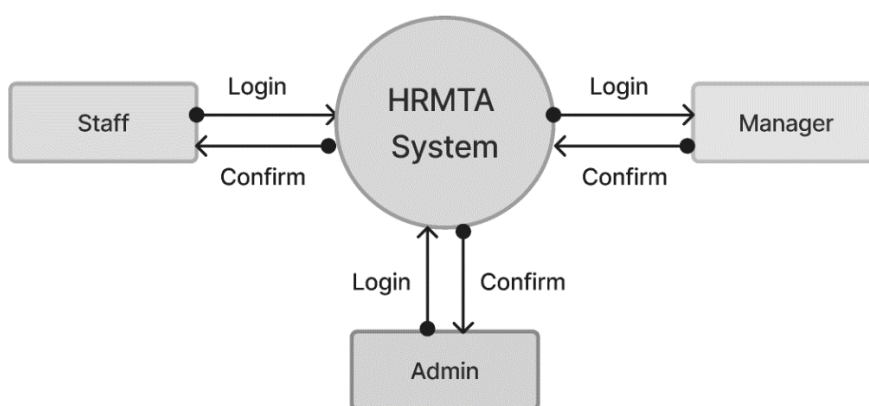


Figure F2: DFD Level 0

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Design Plan: HRM & Task Allocation	Document Name: Entity Relationship Diagram	SWD/Form No.04/ERD/Ver1.0
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Entity Relationship Diagram

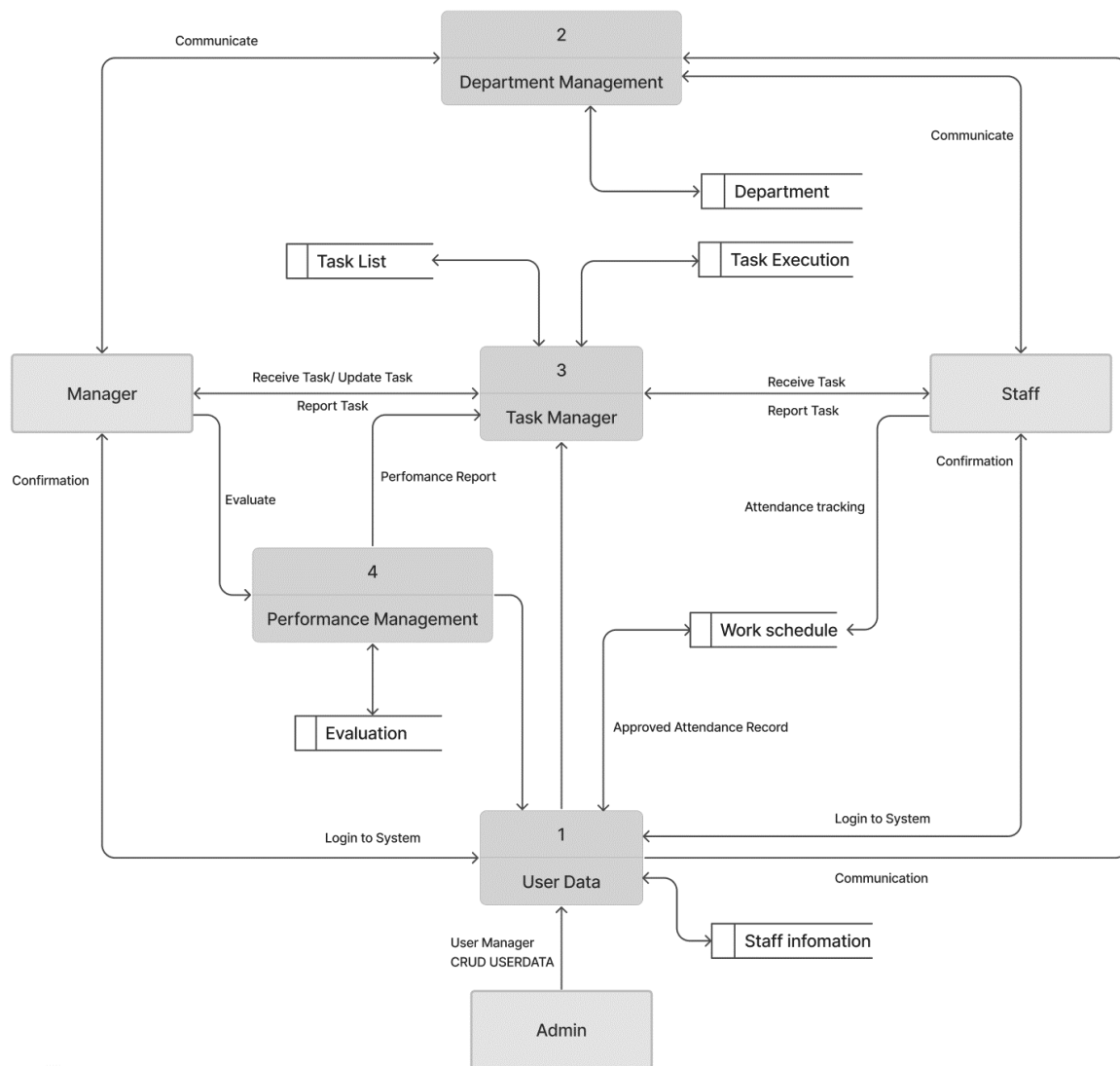
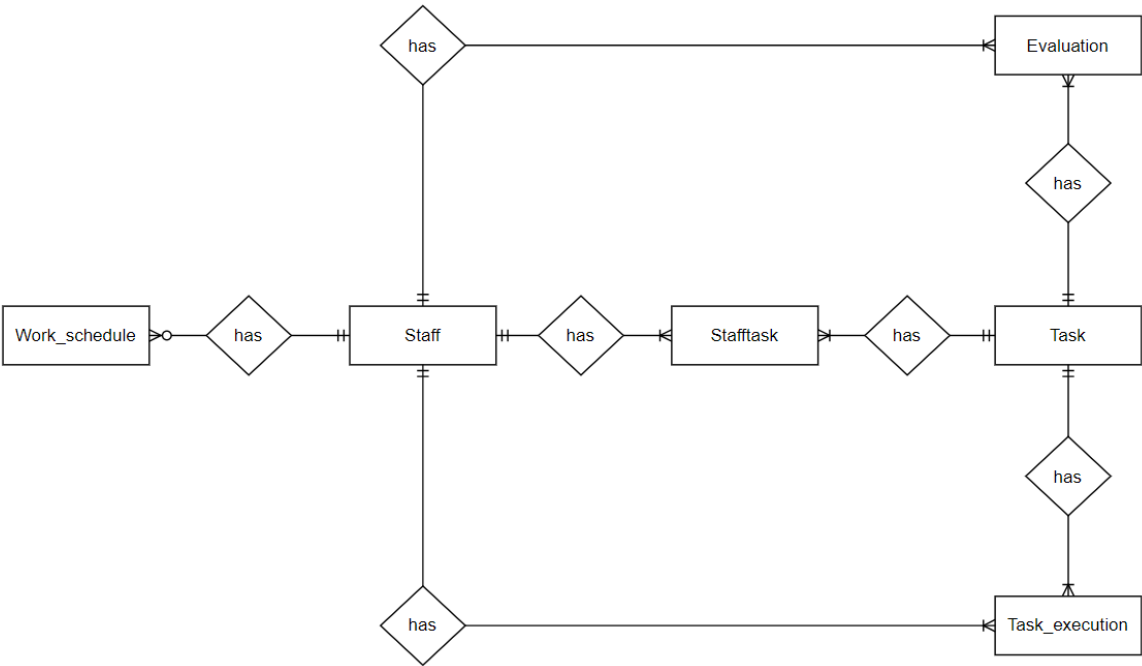


Figure F3: DFD Level 1

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Design Plan: HRM & Task Allocation	Document Name: Entity Relationship Diagram	SWD/Form No.04/ERD/Ver1.0
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I. ERD



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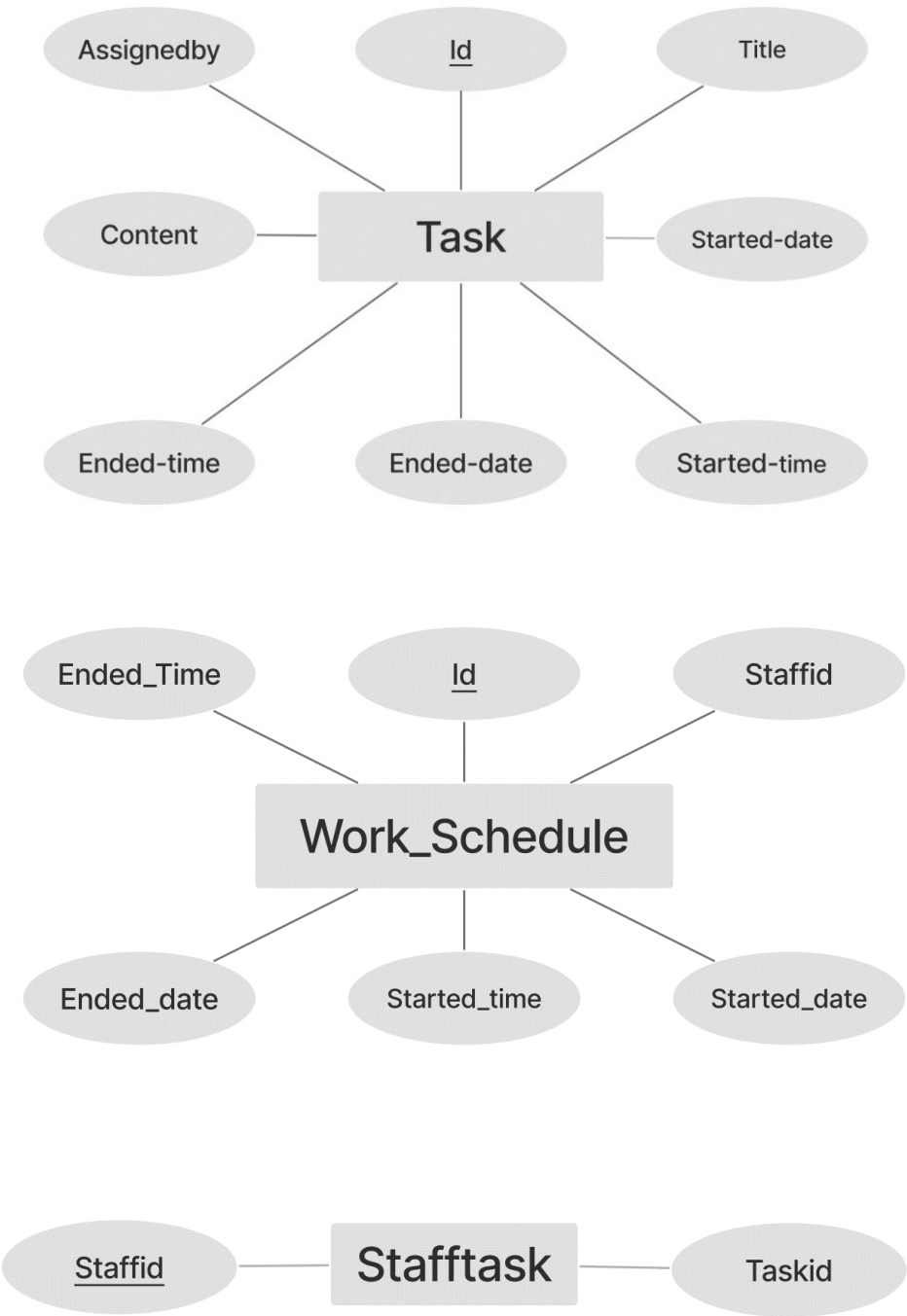
Design Plan: HRM & Task Allocation	Document Name: Entity Relationship Diagram	SWD/Form No.04/ERD/Ver1.0
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II. ERD Properties



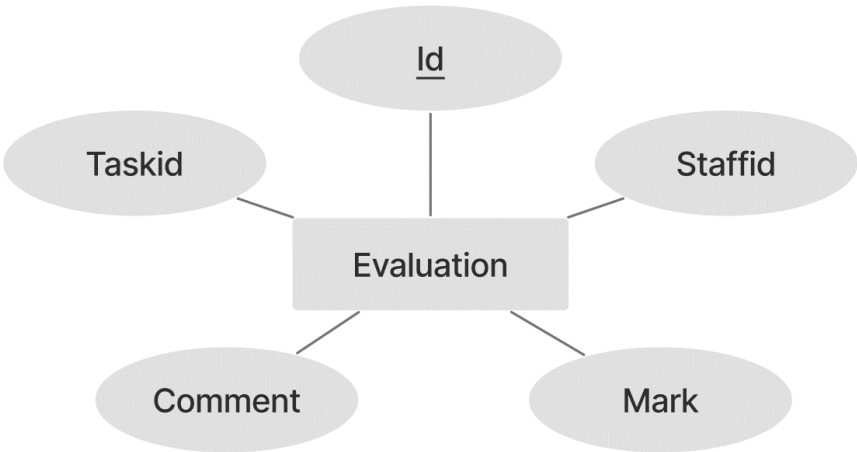
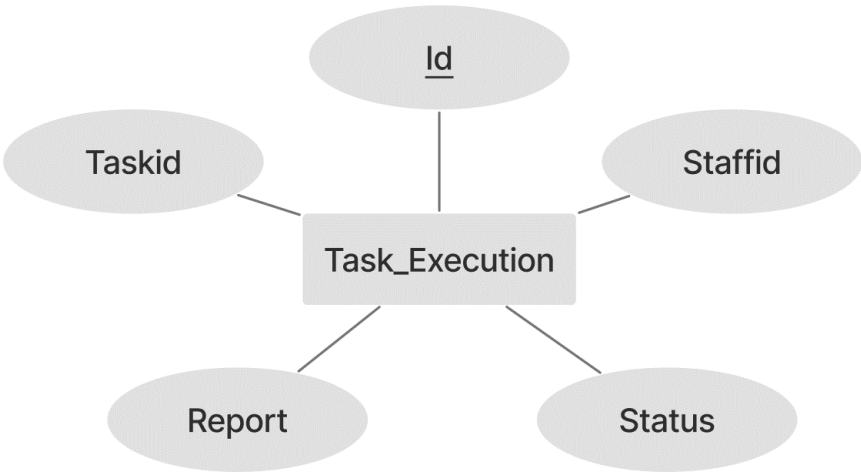
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Design Plan: HRM & Task Allocation	Document Name: Table Design	SWD/Form No.05/TAB/Ver1.0
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Table Design

I. Table Design

Staff					
Serial	Fields	Data type	Keys	Constrains	Description
1	Id	Int(11)	Primary key	Not null, Identity	Staff identification
2	FirstName	Varchar (50)		Not null	Staff's first name
3	LastName	Varchar(50)		Not null	Staff's last name
4	Email	Varchar(100)		Not null	Staff's email
5	PhoneNumber	Varchar(15)		Not null	Staff's phone
6	Department	Varchar(50)		Not null	Staff's Department
7	Position	Varchar(50)			Staff's position
8	User_name	Varchar(50)		Not null	Staff's user name
9	Password	Varchar(50)		Not null	Staff's password
10	Permission	Int		Not null	Staff's permission
11	Status	Varchar		Not null	Staff's status
12	Salary	Float			Staff's salary

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Design Plan: HRM & Task Allocation	Document Name: Table Design	SWD/Form No.05/TAB/Ver1.0
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Task					
Serial	Fields	Data type	Keys	Constrains	Description
1	Id	Int(11)	Primary key	Not null, Identity	Task identification
2	Title	Varchar (50)		Not null	Task's title
3	Started_date	DATE		Not null	Task's start date
4	Started_time	TIME		Not null	Task's start time
5	Ended_date	DATE		Not null	Task's end date
6	Ended_time	TIME		Not null	Task's end time
7	Content	Varbinary(max)			Task's content
8	Assignedby	Int			Staff assign id

Stafftask					
Serial	Fields	Data type	Keys	Constrains	Description
1	Staffid	Int(11)	Foreign key	Not null	Staff's id
2	Taskid	Int(11)	Foreign key	Not null	Task's id

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Work_Schedule					
Serial	Fields	Data type	Keys	Constrains	Description
1	Id	Int(11)	Primary key	Not null, Identity	Schedule's id
2	Staffid	Int(11)	Foreign key	Not null	Staff's id
3	Started_date	DATE		Not null	Schedule's start date
4	Started_time	TIME		Not null	Schedule's start time
5	Ended_date	DATE		Not null	Schedule's end date
6	Ended_time	TIME		Not null	Schedule's end time

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Design Plan: HRM & Task Allocation	Document Name: Table Design	SWD/Form No.05/TAB/Ver1.0
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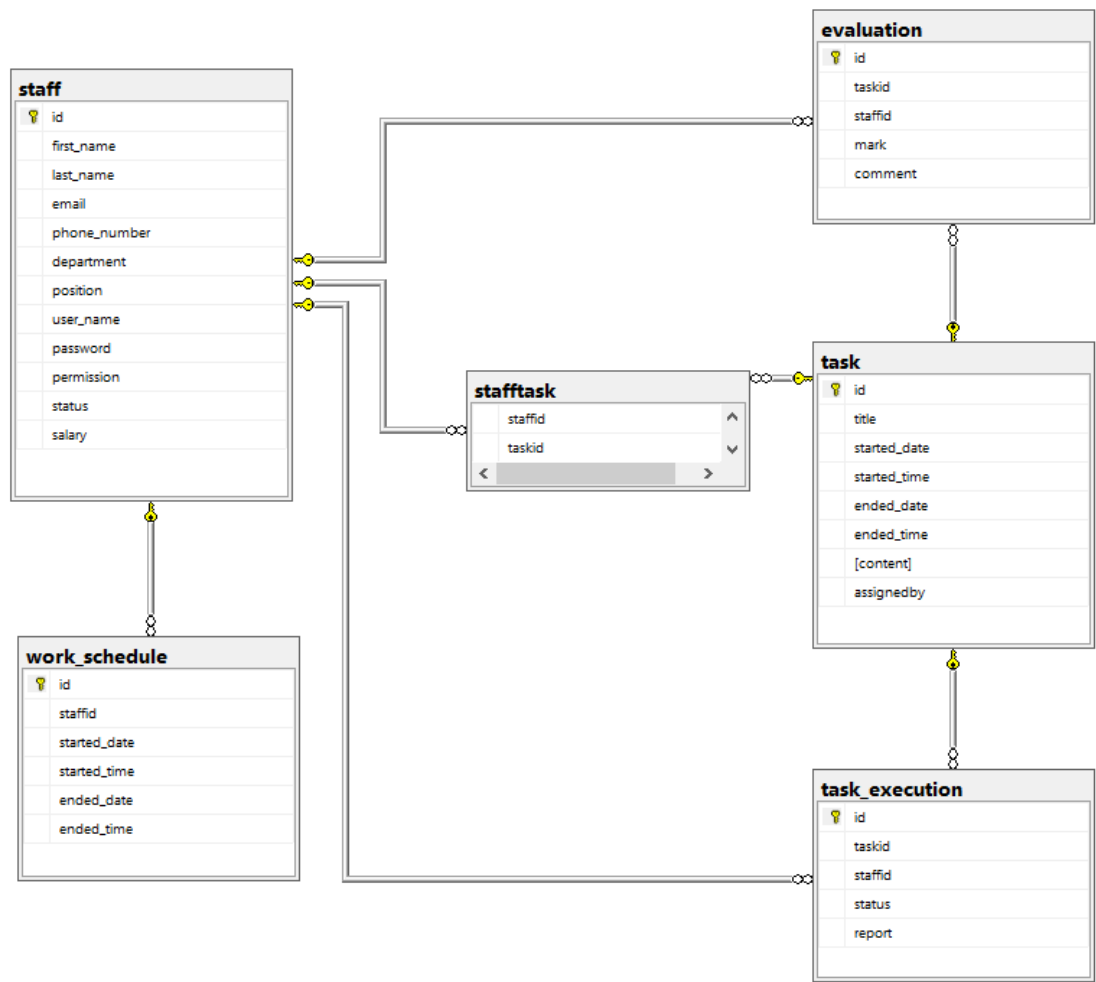
Task_Execution					
Serial	Fields	Data type	Keys	Constrains	Description
1	Id	Int(11)	Primary key	Not null, Identity	Task exe's id
2	Staffid	Int(11)	Foreign key	Not null	Staff's id
3	Status	Varchar		Not null	Task's status
4	Report	Varbinary(max)			Task's report
5	Task's id	Int(11)	Foreign key	Not null	Task's id

Evaluation					
Serial	Fields	Data type	Keys	Constrains	Description
1	Id	Int(11)	Primary key	Not null, Identity	Evaluation's id
2	Staffid	Int(11)	Foreign key	Not null	Staff's id
3	Mark	Float		Not null	Task's mark
4	Comment	Varchar(255)			Manager's comment
5	Task's id	Int(11)	Foreign key	Not null	Task's id

II. Relationship Diagram

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Design Plan: HRM & Task Allocation	Document Name: Table Design	SWD/Form No.05/TAB/Ver1.0
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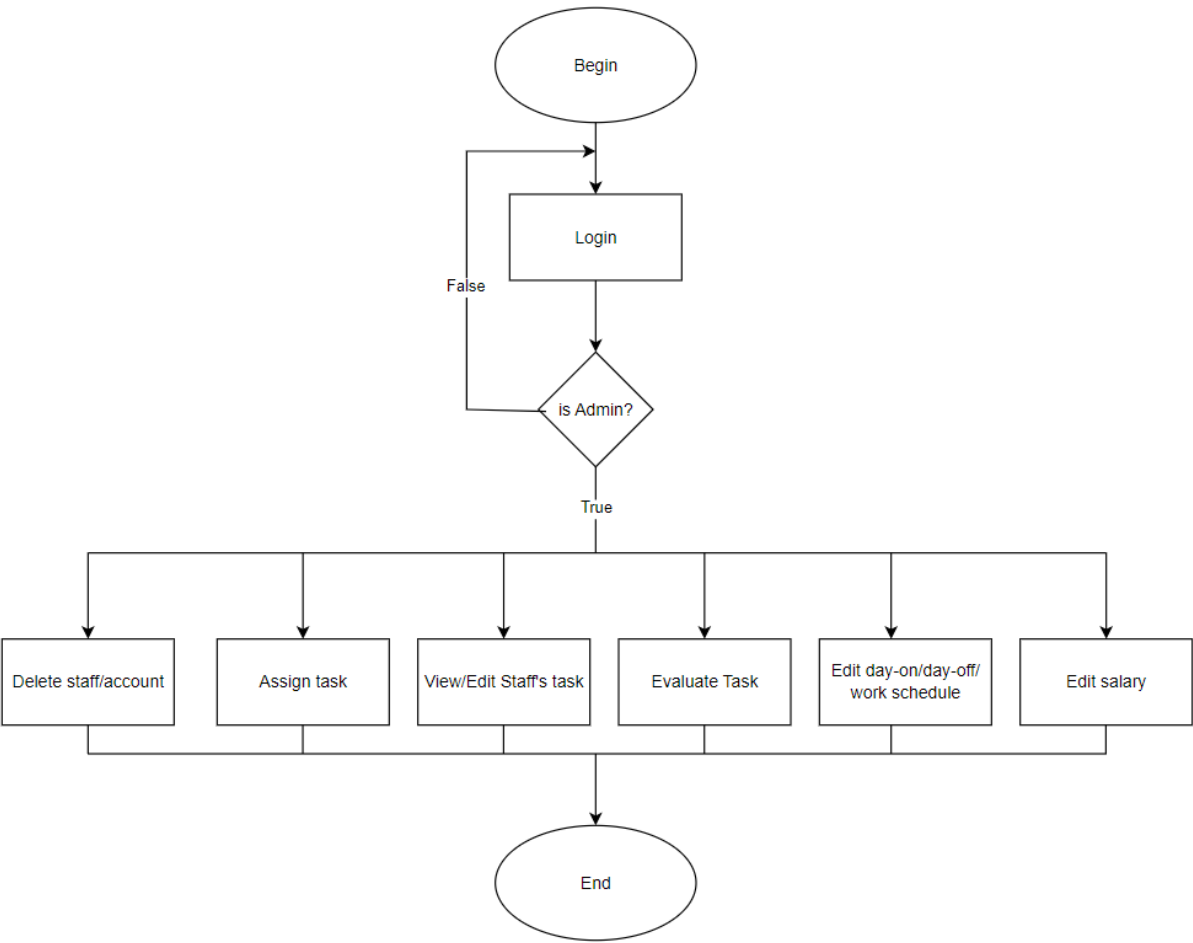


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Design Plan: HRM & Task Allocation	Document Name: Algorithm	SWD/Form No.06/ALG/Ver1.0
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Algorithm

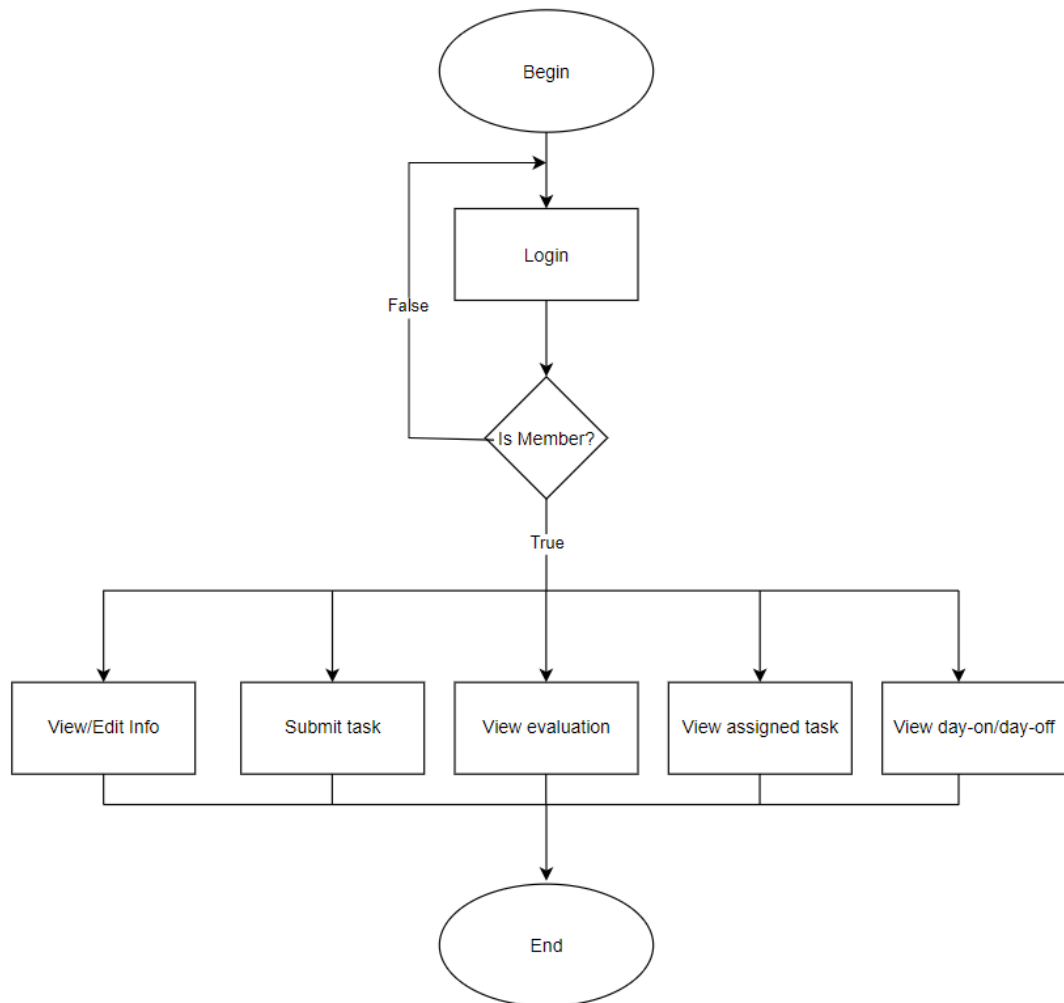
I. Administrator



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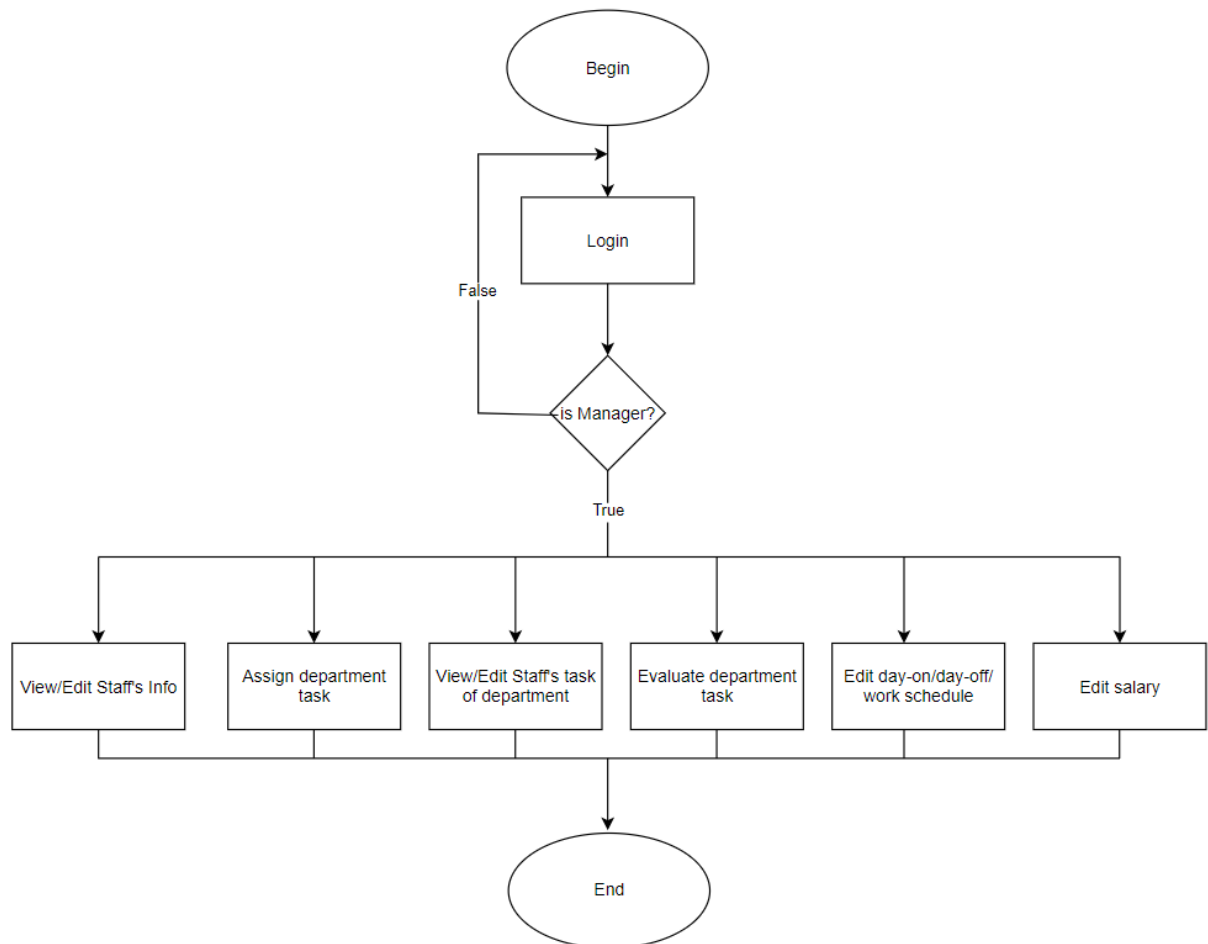
II. Staff



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III. Manager



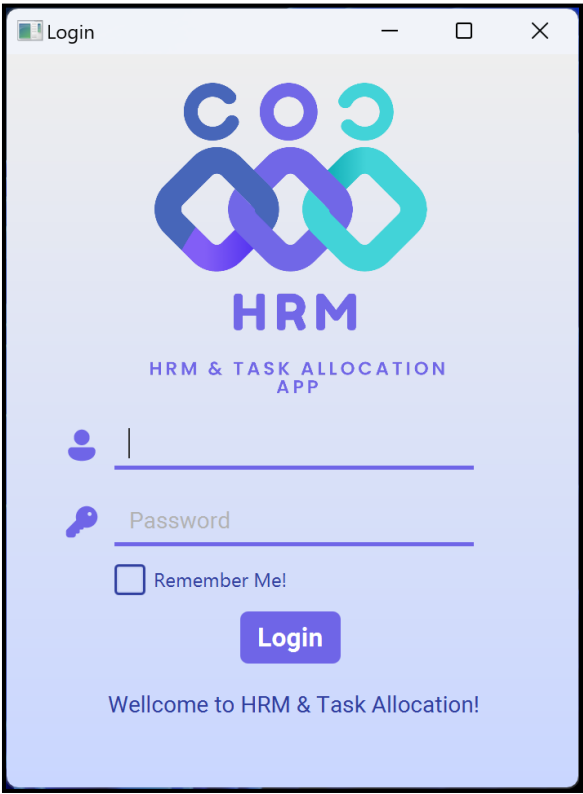
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Review 03

Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Screen shots

I. System login interface:



- Description:**
This is the login screen interface, used for users to log in to the HRM system.
- From:**
This screen appears when users start the application to use the system.
- To:**
After the user successfully logs in, the application will redirect the user to the central dashboard

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Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Properties	Value
Form - Background color	#c9d6ff, #EEEEEE
Title - Font Size	14
Title - Font Color	Back
Title - Alignment	Left
Background color of Controls on the form	#c9d6ff, #EEEEEE
Button - Color	#6F65E7
Button – Font size	14
Command button - Alignment	Center

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Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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II. Home page interface:

The screenshot shows the HRM & Task Allocation Application interface for Staff 01. The interface includes a sidebar with navigation options: Home, Manage, Accounts, and Settings. The main content area displays a list of tasks categorized into Delay, Doing, and Plan. Each task entry includes an ID, Title, Started Date, Started Time, Ended Date, Ended Time, Content, and Assignedby.

ID	Title	Started Date	Started Time	Ended Date	Ended Time	Content	Assignedby
Delay:							
01	Review 01: Problem Definition	14-04-2024	8:30	19-04-2024	17:00	Problem Definition & CRS...	Boss 01
02	Perform Last Month Report	16-04-2024	8:30	20-04-2024	17:00	Compile a list of tasks pe...	Boss 01
03	Review 02: Architecture App	17-04-2024	8:30	19-04-2024	17:00	Evaluate the feasibility o...	Boss 01
Doing:							
04	Review 03: Design Prototyp...	23-04-2024	8:30	28-04-2024	17:00	Prototype of Application...	Boss 01
05	Check Information About St...	23-04-2024	8:30	29-04-2024	17:00	Staff's Marketing Depart...	Boss 01
06	Workshop about Digital Mar...	26-04-2024	8:30	29-04-2024	17:00	Digital Marketing in futur...	Boss 01
Plan:							
07	Review 04: Youtube report ...	01-05-2024	8:30	10-05-2024	17:00	Prototype of Application...	Boss 01
08	Participate in the closing ev...	02-05-2024	8:30	02-05-2024	17:00	Staff's Marketing Depart...	Boss 01

Description: This is the interface of the Home page, used for users to interact with the main functions of the system after logging into the HRM system. The Home page will present contents such as ongoing tasks, overdue tasks, and employee schedules. Users can manage, assign and receive tasks, add new tasks, edit tasks, and report work.

From: This screen appears when the user successfully logs in.

To: Users can navigate to the detailed task page and report results.

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Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Properties	Value
Form - Background color	#c9d6ff, #EEEEEE
Title - Font Size	14
Title - Font Color	Back
Title - Alignment	Left
Background color of Controls on the form	#c9d6ff, #EEEEEE
Button - Color	#6F65E7
Button – Font size	14
Command button - Alignment	Center

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Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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III. Settings page interface.

Description: This is the interface of the Settings page, used for users to configure settings for the system such as start page, notifications, and database connection information.

From: This screen appears when the user successfully logs in and selects the Settings section.

To: Users can navigate to other pages such as Home, Manage, Accounts through the Navbar.

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Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Properties	Value
Form - Background color	#c9d6ff, #EEEEEE
Title - Font Size	14
Title - Font Color	Back
Title - Alignment	Left
Background color of Controls on the form	#c9d6ff, #EEEEEE
Button - Color	#6F65E7
Button – Font size	14
Command button - Alignment	Center

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IV. Staff list

Staff List

Staff List Table

		<div>Edit</div> <div>Delete</div>

Add

Footer

- Description:**
Employee list page, displaying information of all currently working employees from the database (accessible if the user is a manager or admin).

From:
This screen appears when the user successfully logs in and selects the Manage Section.

To:
Users can navigate to other pages such as Home, Manage, Accounts through the Navbar.

	Prepared by (Student) Project Group No: 03	Approved by (Faculty) LE THANH NHAN
Signature		
Date		

Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
Effective Date: 18/04/2024	Version 1.0	Page No: 32 of 47

Properties	Value
Form - Background color	#c9d6ff, #EEEEEE
Title - Font Size	14
Title - Font Color	Back
Title - Alignment	Left
Background color of Controls on the form	#c9d6ff, #EEEEEE
Button - Color	#6F65E7
Button – Font size	14
Command button - Alignment	Center

	Prepared by (Student)	Approved by (Faculty)
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Signature		
Date		

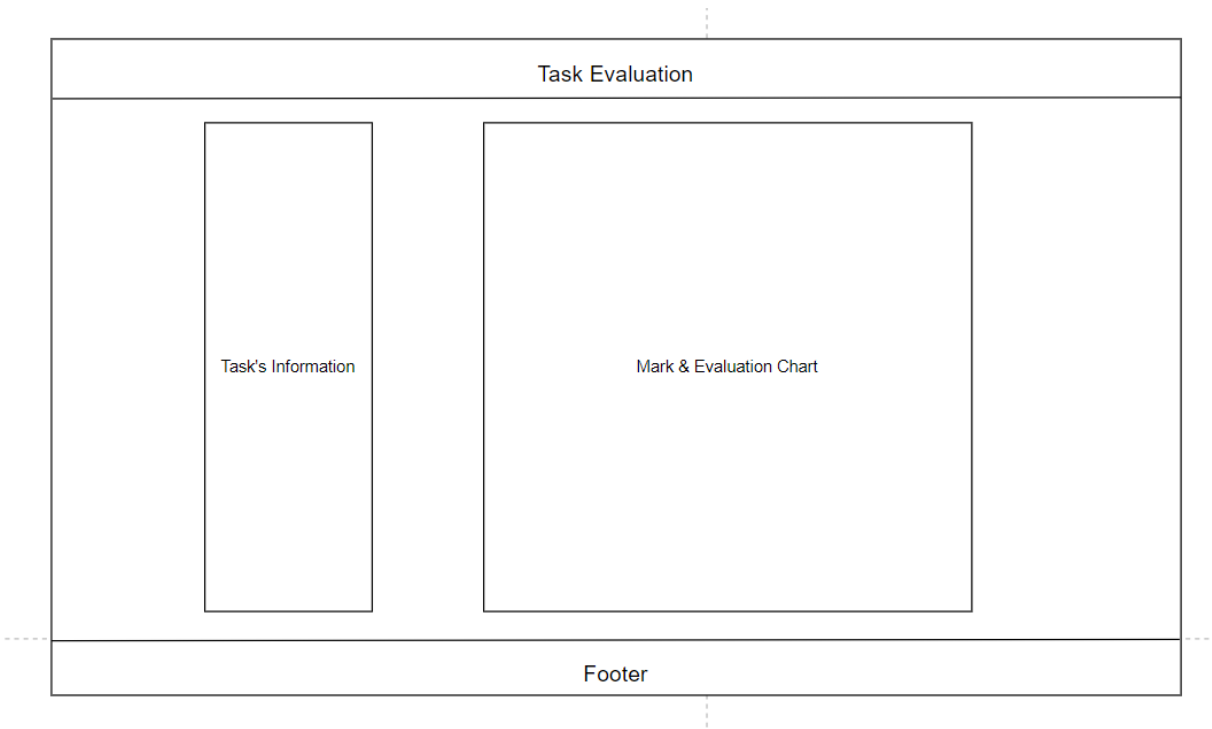
Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
Effective Date: 18/04/2024	Version 1.0	Page No: 34 of 47

Properties	Value
Form - Background color	#c9d6ff, #EEEEEE
Title - Font Size	14
Title - Font Color	Back
Title - Alignment	Left
Background color of Controls on the form	#c9d6ff, #EEEEEE
Button - Color	#6F65E7
Button – Font size	14
Command button - Alignment	Center

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Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
Effective Date: 18/04/2024	Version 1.0	Page No: 35 of 47

VI. Task Evaluation



Description: Users can view the evaluated scores

From: This screen appears when the user successfully logs in and selects the Manage section.

To: Users can see more evaluated score or another evaluated task, and also can navigate to other pages such as Home, Manage, Accounts through the Navbar.

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Signature		
Date		

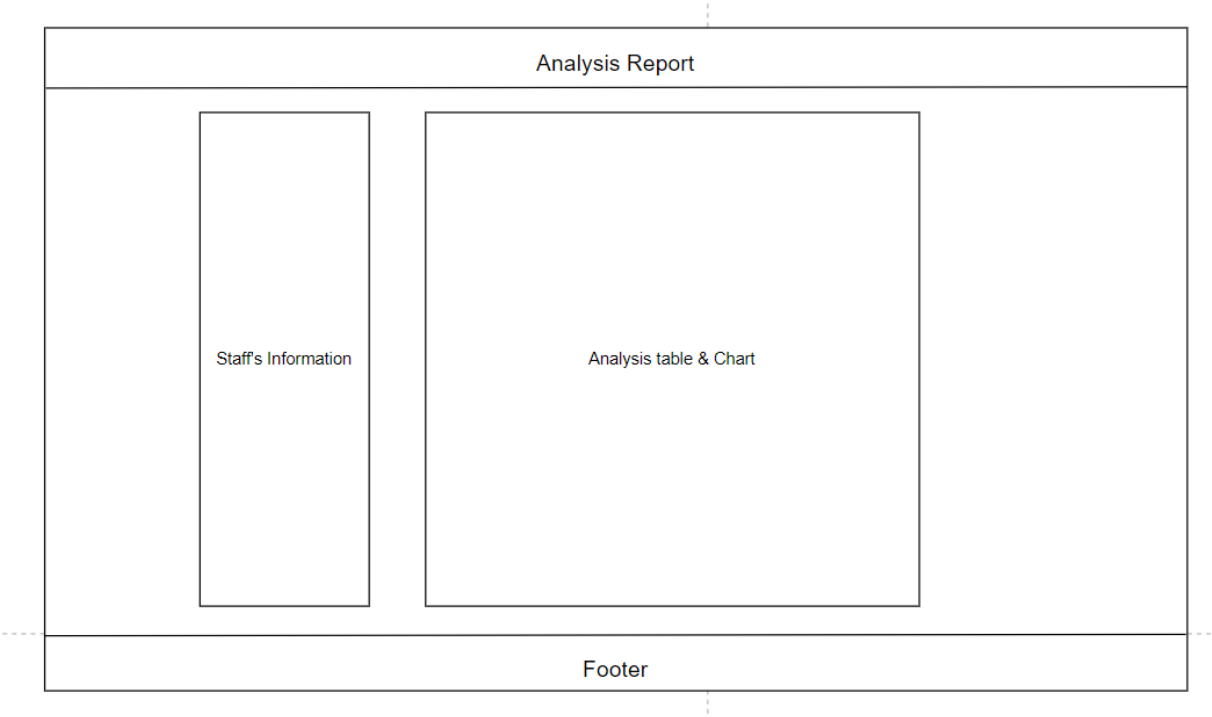
Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
Effective Date: 18/04/2024	Version 1.0	Page No: 36 of 47

Properties	Value
Form - Background color	#c9d6ff, #EEEEEE
Title - Font Size	14
Title - Font Color	Black
Title - Alignment	Left
Background color of Controls on the form	#c9d6ff, #EEEEEE
Button - Color	#6F65E7
Button – Font size	14
Command button - Alignment	Center

	Prepared by (Student) Project Group No: 03	Approved by (Faculty) LE THANH NHAN
Signature		
Date		

Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
Effective Date: 18/04/2024	Version 1.0	Page No: 37 of 47

VII. Analysis Report



- Description:** Users can view the evaluated overall scores, shown through charts
- From:** This screen appears when the user successfully logs in and selects the Manage section.
- To:** Users can navigate to other pages such as Home, Manage, Accounts through the Navbar.

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Date		

Design Plan: HRM & Task Allocation	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
Effective Date: 18/04/2024	Version 1.0	Page No: 38 of 47

Properties	Value
Form - Background color	#c9d6ff, #EEEEEE
Title - Font Size	14
Title - Font Color	Back
Title - Alignment	Left
Background color of Controls on the form	#c9d6ff, #EEEEEE
Button - Color	#6F65E7
Button – Font size	14
Command button - Alignment	Center

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Design Plan: HRM & Task Allocation	Document Name: Testing document	SWD/Form No.08/TD/Ver1.0
Effective Date: 18/04/2024	Version 1.0	Page No: 39 of 47

Testing document

Sr.No	Features Tested	Remarks
1	Test the login feature for the first time.	X
2	Test the login feature for employees.	X
3	Test the feature displaying tasks of employees.	X
4	Test the feature reporting task performance of employees.	X
5	Test the feature adding tasks for managers.	X
6	Test the feature evaluating task performance of managers.	X
7	Test the feature settings for the application.	X
8	Test add more staff's information	X
9	Test view Staff list	X
10	Test Editing information function	X
11	Test add more evaluation	X
12	Test view analysis report	X
13	Test edit evaluation	X

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Design Plan: HRM & Task Allocation	Document Name: Final checklist	SWD/Form No.09/FC/Ver1.0
Effective Date: 18/04/2024	Version 1.0	Page No: 40 of 47

Final Testlist

Sr.No	Aspected Tested	Suggestion/ Remarks
1	Are all the users able to view the images and links?	X
2	Have all the views, modules and controllers been properly integrated and is the site function as a single page application?	X
3	Are the GUI content devoid of spelling mistakes?	
4	Is the application user-friendly?	X
5	Is the Website launching correctly in all popular browsers?	X
6	Are all the forms validated with proper criteria?	X
7	Do all text links lead to the appropriate website?	X
8	Do all image links lead to the appropriate website?	X
9	Are all the images and links clearly visible on the page?	X
10	Does the Web page work properly in all the tested browsers?	
11	Does the Web page take too long to be loaded fully?	
12	Is the navigation sequences correct through all the Web pages on the site?	
13	Is the JavaScript code working as expected in all click events?	

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Design Plan: HRM & Task Allocation	Document Name: Task Sheet	SWD/Form No.10/TS/Ver1.0
Effective Date: 18/04/2024	Version 1.0	Page No: 41 of 47

No	Member	Contents		Table Name	Activity Plan	Date of Preparation of Activity Plan		
					Planed Start Date	Actual Start Date	Actual Days	Status
1	LÊ TRỌNG NGHĨA	Admin	Staffs ' information	User & Evaluate	19/04/2024	25/04/2024	7	OK
2			View staff's evaluation		25/04/2024	10/05/2024	7	OK
3		User	Edit personal information		25/04/2024	10/05/2024	7	OK
4			Receive task evaluation		10/05/2024	22/04/2024	7	OK
1	NGUYỄN ĐỨC LINH	Admin	Task Management	Task & Task Execution	19/04/2024	25/04/2024	7	OK
2			Analysis Report		25/04/2024	10/05/2024	7	OK
3			Assign Task and Evaluate task		25/04/2024	10/05/2024	7	OK
4		User	Task Report		10/05/2024	22/04/2024	7	OK
1	TRẦN MINH QUANG	Admin	Salary	Salary & Department	19/04/2024			N/A
2					19/04/2024			N/A
3		User	Check salary		19/04/2024			N/A
4			View plan schedule		19/04/2024			N/A

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Date		