

Criterion B

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Introduction

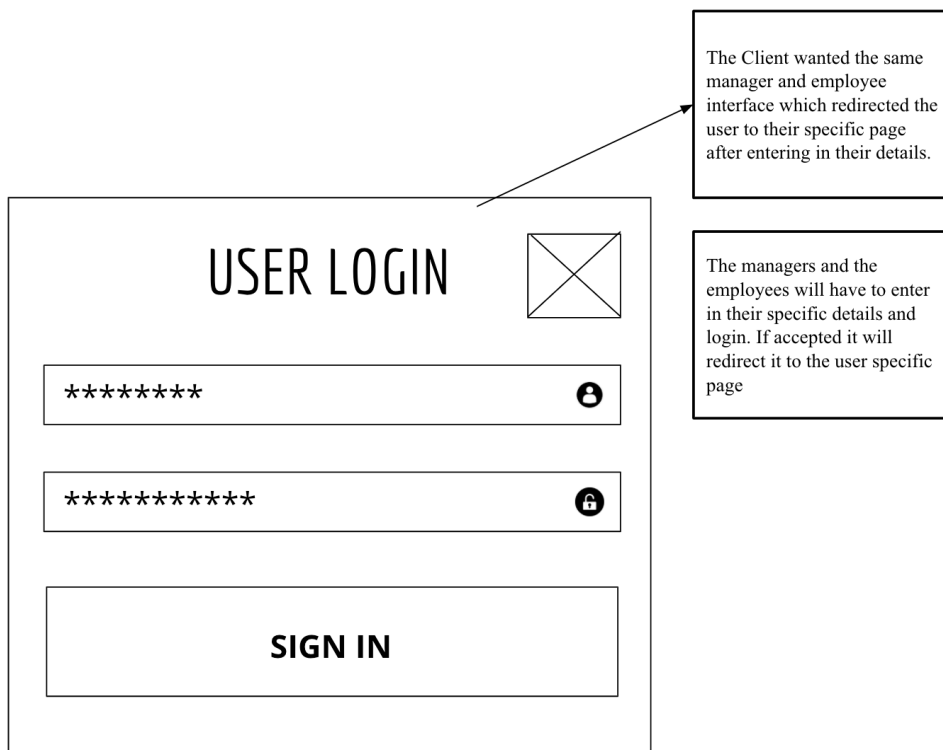
As I continued developing aspects of my application, I continuously involved the client in my operations to ensure that I was not tailing off the client's interpretation of the project's outcome. I presented the initial set of wireframes to my client and after receiving attributable feedback, we decided on an updated set of wireframes. Both sets of wireframes will be presented within this document.

After the agreed upon set of wireframes were developed and accepted by the client, it allowed me to work on the logic and algorithms which sanctions the client's requests ultimately developing a program suitable and acquirable for the client's needs. Flowcharts, an entity relationship diagram and example SQL tables will act as presentation methods within this document to display how the logic and algorithms will operate as a whole.

Design

1st Set of Wireframes (Prior to Client Feedback)

User login - The page in which users can access their user-specific pages



The wireframe illustrates a 'USER LOGIN' interface. It features a title 'USER LOGIN' at the top left, a placeholder icon (a square with an 'X') at the top right, and a large 'SIGN IN' button at the bottom. Two input fields are positioned in the center, each containing a series of asterisks to represent masked text. To the right of each input field is a small circular icon with a lock symbol, indicating password fields. Two callout boxes provide additional context: one points to the top right area, stating 'The Client wanted the same manager and employee interface which redirected the user to their specific page after entering in their details.', and the other points to the input fields, stating 'The managers and the employees will have to enter in their specific details and login. If accepted it will redirect it to the user specific page'.

USER LOGIN

SIGN IN

The Client wanted the same manager and employee interface which redirected the user to their specific page after entering in their details.

The managers and the employees will have to enter in their specific details and login. If accepted it will redirect it to the user specific page

Employee's Input Page - The page in which employee's input their time sheets and hour distribution


The screenshot shows a web application window titled "EMPLOYEE'S INPUT PAGE". Inside, the page is titled "Employee's Input Page" with the subtitle "Input Timesheet & Hours". The form contains the following fields:

- Name:** A text input field containing "Izum Adnan".
- Office Lead:** A text input field containing "Waleed Farooq".
- Date:** A date picker showing "July", "21", and "2020".
- Chargeable Hours:** A text input field containing "4".
- Non-Chargeable Hours:** A text input field containing "8".
- SAVE:** A button at the bottom left.

Annotations with arrows point to the form fields and the window title bar:


- An arrow points to the window title bar with the text: "If an employee logs in, it will redirect them to this page in which the client wanted the employee's to input their time sheets & hours".
- An arrow points to the Name, Office Lead, Date, Chargeable Hours, and Non-Chargeable Hours fields with the text: "These inputs all add up to an sql table according to date within a database".
- An arrow points to the SAVE button with the text: "Every time there's a new working day a new table will be made according to date using this format day/month/year".

Work Report's - The page in which managers can view all the employee's time sheets and hour distribution



WORK REPORT'S

ADD NEW EMPLOYEE



Work Report's

View all employees time sheets and hours

Name	Office Lead	Chargeable Hours	Non-Chargeable hours	Total Hours	Chargeability
Izum Adnan	Waleed Farooq	4	8	12	33%
Heejae Park	Waleed Farooq	18	12	30	60%
Dario Biegert	Waleed Farooq	4	6	10	40%
Khaled Alikhan	Waleed Farooq	35	8	43	81.39%
Fares Rafiah	Waleed Farooq	46	33	79	58.23%

If a manager logs in, it will redirect them to this page in which they can view the most recent date of logged in time sheets and hour distribution

All data presented will come exclusively from the (Date) SQL table through the use of the SELECT function

Add New Employee - A page in which the manager can add new employees or staff

The screenshot shows a web application interface for adding a new employee. The top navigation bar includes a home icon, 'WORK REPORT'S', and 'ADD NEW EMPLOYEE'. The main heading is 'Add New Employee' with a subtext: 'Add a new employee so they can start displaying their time sheets and hours'. The form contains the following fields:

- Office Lead: Waleed Farooq
- Joined on: July 21 2020
- Name: Mousa Adnan
- Date of Birth: July 21 2020
- Email: MousaAdnan@gmail.com
- Address: United Arab Emirates, Dubai, JBR
- Number: +971 55 373 8963
- Password: *****
- Role: Staff

An 'Add Image.' button is located next to the 'Joined on' and 'Date of Birth' fields. A dropdown menu for 'Role' is shown on the right, with 'Staff' selected. An 'ADD' button is at the bottom left.

Annotations explain the data flow:

- Upon the third meeting with the client he asked whether I can add a feature in which he can add new staff.
- All of the inputs go into either the 'manager_details' table or the 'employee_details' table within the database.
- The option the manager inputs from the dropdown determines the table in which the inputs are place into

2nd Set of Wireframes (Post Client Feedback)

After showing my client the original wireframes and my take towards tackling his set task, he was pleased. Yet, he wanted to add new features as he believed it would help organize the page a little more.

The additional features my client alluded to were drop downs in the login page to specify whether the user was an employee or a manager, and a drop down in the 'Work Report's' page which would allow him to access any date's table. Additionally, the client wanted another page to be added within the employee redirect which allows them to view their personal profile information.

User login

The wireframe shows a 'USER LOGIN' form. It includes two password fields (one with 7 asterisks, one with 10), a 'Position:' label, a dropdown menu currently showing 'Manager', and a 'SIGN IN' button. An arrow points from the dropdown menu to a detailed view of the dropdown options: 'Manager' (selected), 'Manager', and 'Employee'. A text box explains that the client wanted to add this dropdown to allow users to identify their position within the firm.

USER LOGIN



Position: Manager

SIGN IN

Manager
Manager
Employee

My client wanted to add a drop down on the User login in which the user can identify which position within the firm they identify with

Employee's Input Page (Remains Unchanged)

 EMPLOYEE'S INPUT PAGE USER PROFILE 

Employee's Input Page

Input Timesheet & Hours

Name

Izum Adnan

Office Lead

Waleed Farooq

Date

July

21

2020

Chargeable Hours

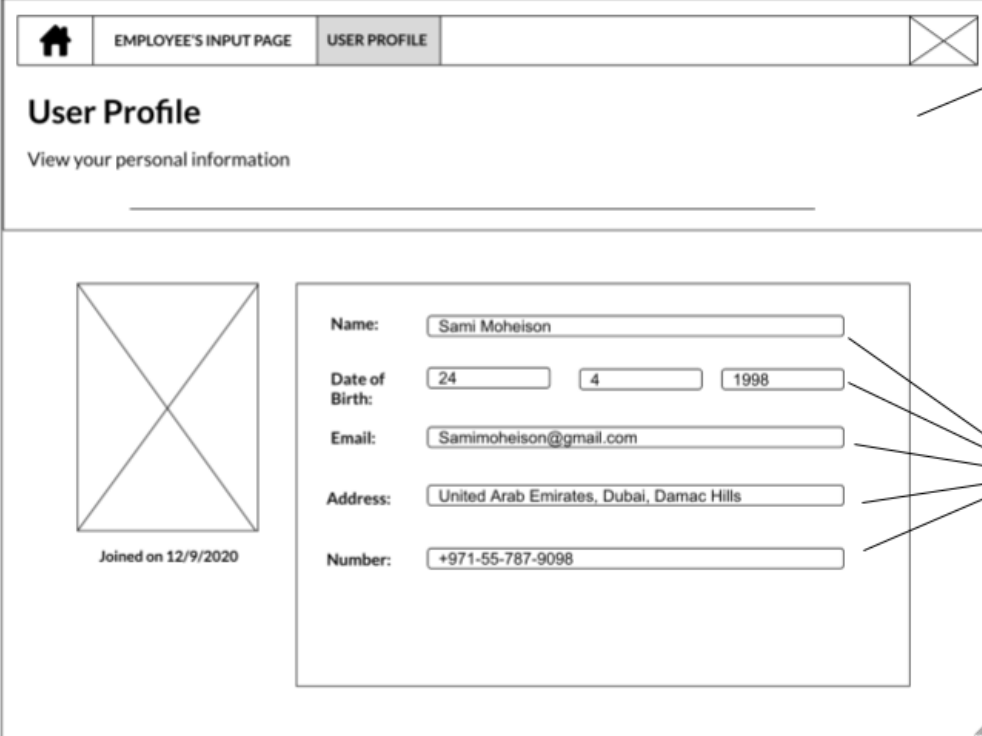
4

Non-Chargeable Hours

8

SAVE

Employee User Profile (New addition) - Is a page in which the user can view their personal information





The image shows a web application interface for a 'User Profile'. At the top, there is a navigation bar with three items: a home icon, 'EMPLOYEE'S INPUT PAGE', and 'USER PROFILE' (which is highlighted). To the right of the navigation bar is a close button (an 'X' in a square). Below the navigation bar, the page title 'User Profile' is displayed, followed by the subtitle 'View your personal information'. A horizontal line separates the header from the main content area. On the left side of the main content area, there is a placeholder for a profile picture (a square with an 'X') and the text 'Joined on 12/9/2020'. On the right side, there is a form with several input fields: 'Name' (containing 'Sami Moheison'), 'Date of Birth' (with three fields for '24', '4', and '1998'), 'Email' (containing 'Samimohelson@gmail.com'), 'Address' (containing 'United Arab Emirates, Dubai, Damac Hills'), and 'Number' (containing '+971-55-787-9098').

Name:	Sami Moheison		
Date of Birth:	24	4	1998
Email:	Samimohelson@gmail.com		
Address:	United Arab Emirates, Dubai, Damac Hills		
Number:	+971-55-787-9098		

The client believed that the employee redirect was too unembellished so he asked if I could add a new page in which the user can view their personal information

All the outputs will be provided from the "employee_details" table within the database through the use of the SELECT function

Work Report's

 WORK REPORT'S ADD NEW EMPLOYEE 

Work Report's

View all employees time sheets and hours



Date:

Name	Office Lead	Chargeable Hours	Non-Chargeable hours	Total Hours	Chargeability
Izum Adnan	Waleed Farooq	4	8	12	33%
Heejae Park	Waleed Farooq	18	12	30	60%
Dario Biegert	Waleed Farooq	4	6	10	40%
Khaled Alikhan	Waleed Farooq	35	8	43	81.39%
Fares Rafiah	Waleed Farooq	46	33	79	58.23%

7/21/2020	▼
7/19/2020	
7/20/2020	
7/21/2020	
7/22/2020	

The client wanted a feature in which he chooses a date and then the table from that date is displayed. This will happen through the use of a sql SELECT function

Add New Employee (Remains Unchanged)

	WORK REPORT'S	ADD NEW EMPLOYEE	
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Add New Employee

Add a new employee so they can start displaying their time sheets and hours

Office Lead

Waleed Farooq

Joined on

July

21

2020

Name

Mousa Adnan

Date of Birth

July

21

2020

Email

MousaAdnan@gmail.com

Address

United Arab Emirates, Dubai, JBR

Number

+971 55 373 8963

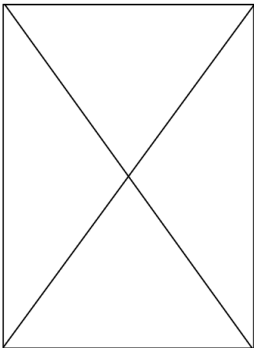
Password

Role

Staff

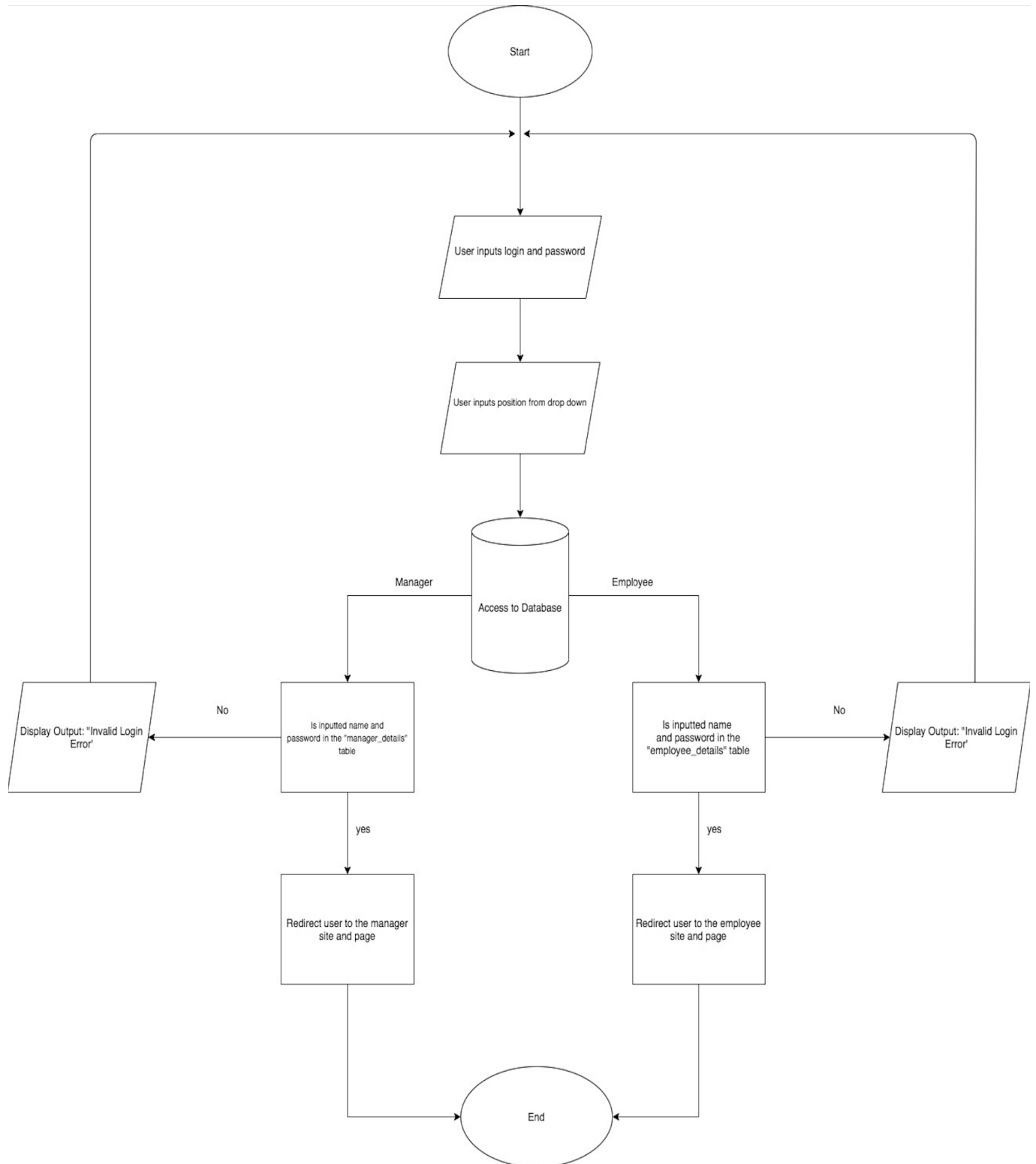
ADD

Add Image:

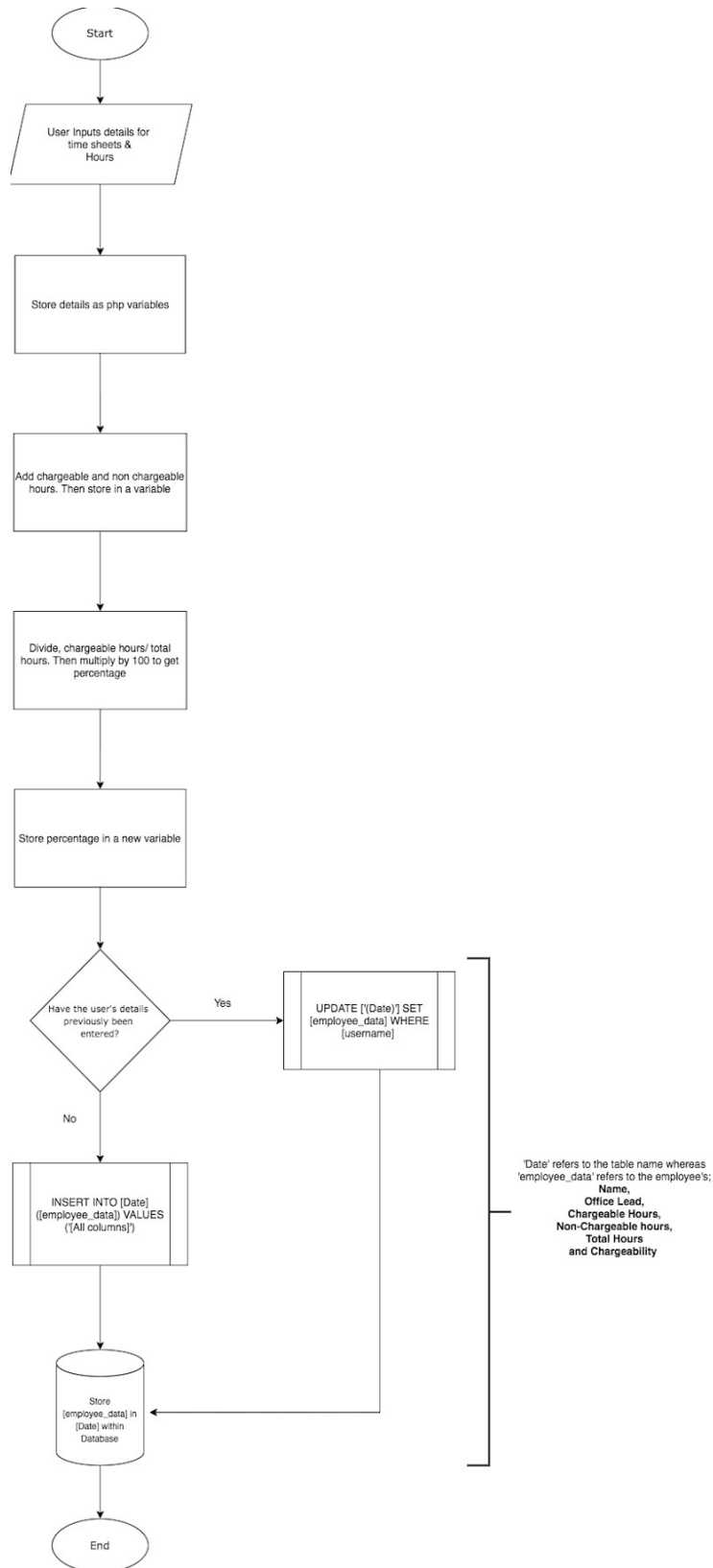


Algorithms & Data

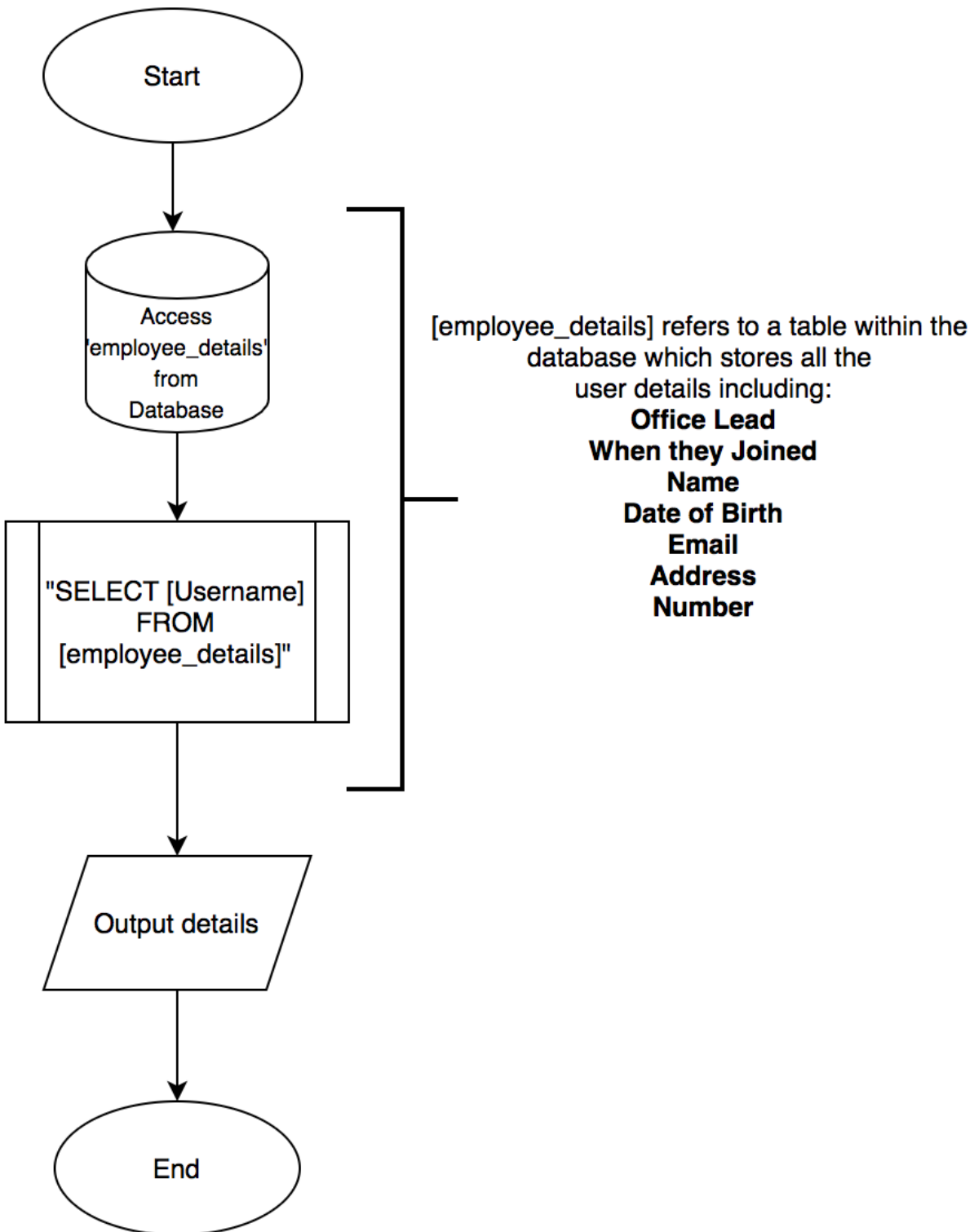
Flowchart 1: User Login



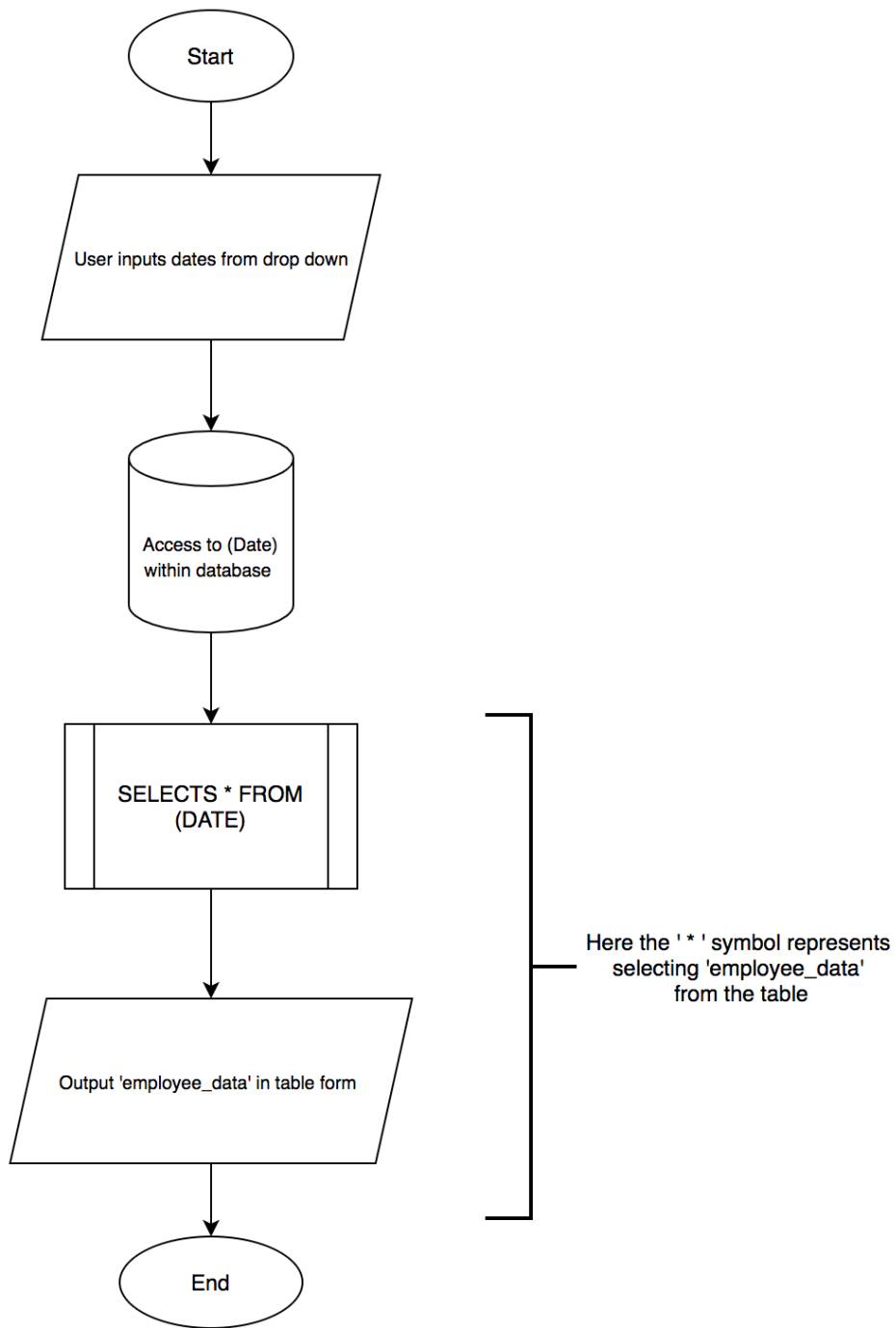
Flowchart 2: Employee Input Page



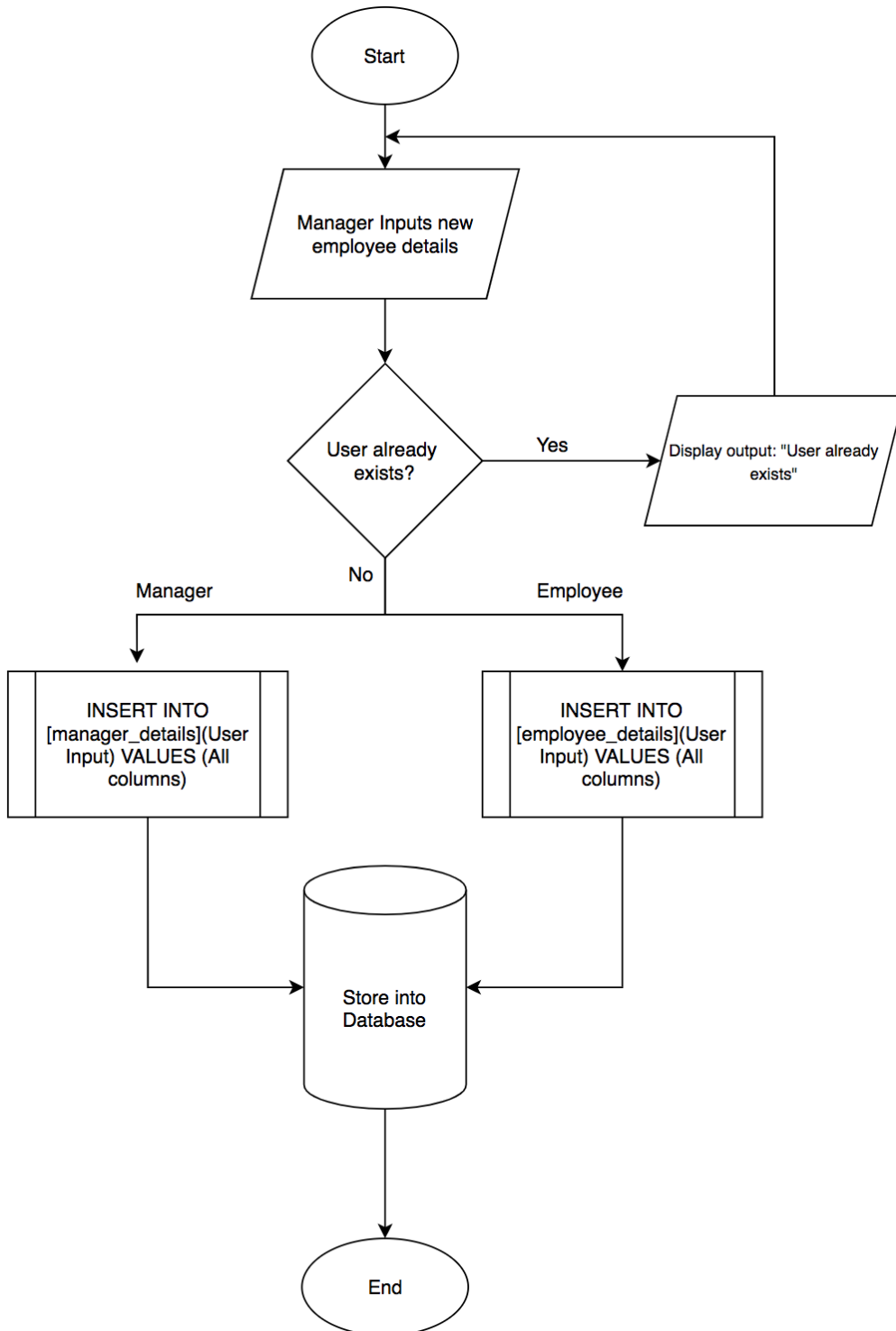
Flowchart 3: Employee User Profile



Flowchart 4: Work Report's

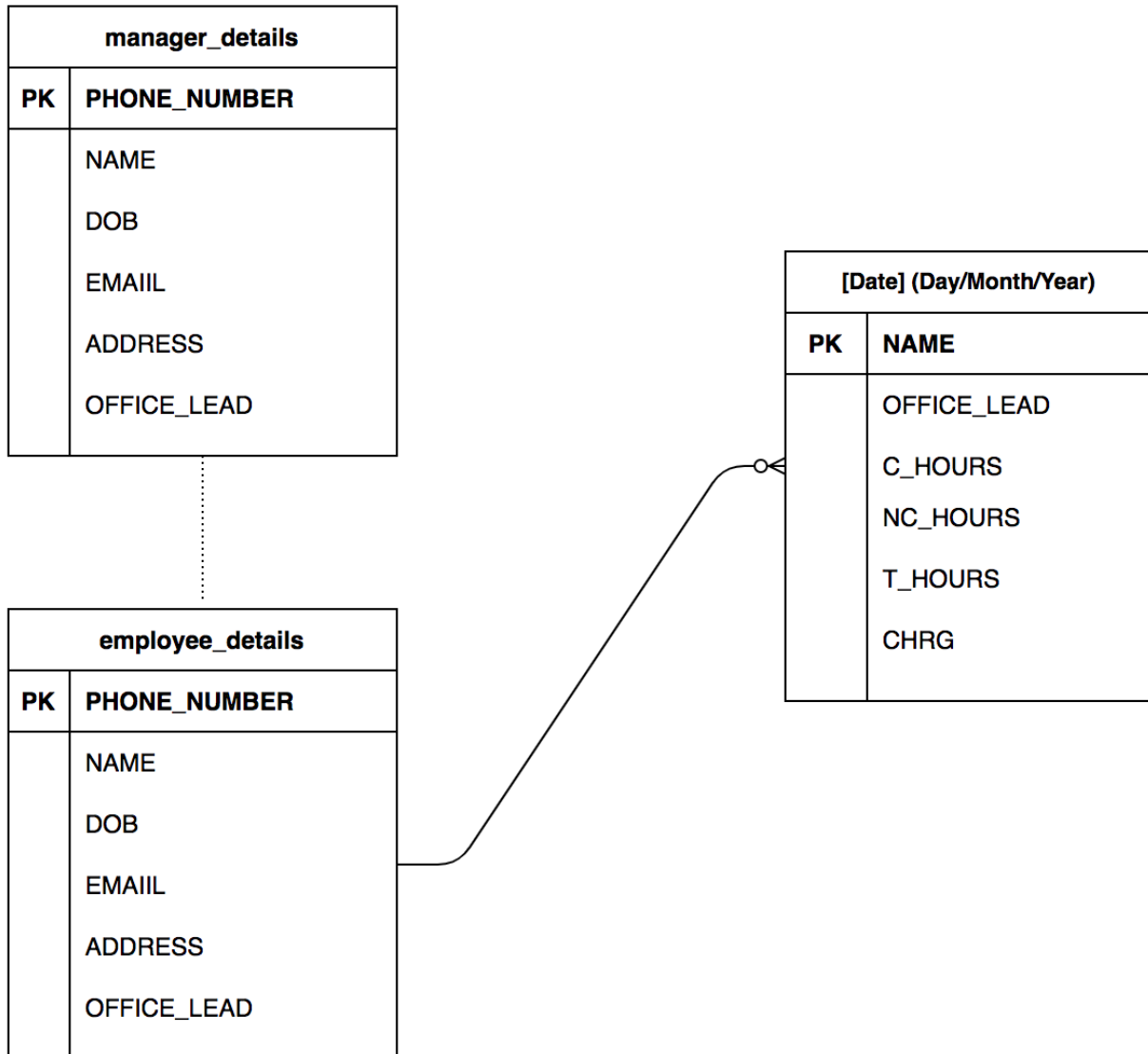


Flowchart 5: Add New Employee



Entity Relationship Diagram (ERD):

Here you can see how in the (Date) table the primary key is the Name. This is because it is a rule amongst the office that if someone's first and last name are identical the person who joined last must go by their first and middle name.



SQL Tables

SQL Data Table 1: manager_details

Name	Type	Parameter	Example
NAME	CHAR	0-50	Waleed Farooq
DOB	VARCHAR	0-50	2/12/1975
EMAIL	VARCHAR	0-75	waleed@gmail.com
ADDRESS	VARCHAR	0-100	UAE, Dubai, JBR
OFFICE_LEAD	CHAR	0-50	Adnan Farooq
PHONE_NUMBER	INT	0-7000000000	509713454

SQL Data Table 2: employee_details

Name	Type	Parameter	Example
NAME	CHAR	0-50	Izum Adnan
DOB	VARCHAR	0-50	21/10/2003
EMAIL	VARCHAR	0-75	izumiscool@gmail.com
ADDRESS	VARCHAR	0-100	UAE, Dubai, Damac Hills
OFFICE_LEAD	CHAR	0-50	Waleed Farooq
PHONE_NUMBER	INT	0-7000000000	553459090

SQL Data Table 3: (Date)

Name	Type	Parameter	Example
NAME	CHAR	0-50	Izum Adnan
OFFICE_LEAD	CHAR	0-50	Waleed Farooq
C_HOURS	INT	0-500	70
NC_HOURS	INT	0-500	15
T_HOURS	INT	0-500	85
CHRG	VARCHAR	0-500	82.35

Test Plan:

Tested Aspect	Nature of Test	Expected Outcome	Example
Login Access with different redirects	Verify if the code identifies the user's position within the company and redirects them to the user-specific page.	If a manager logs in then it should redirect them to the manager directory whereas if an employee logs in then it should redirect them to the employee directory.	If manager Jack Inputs: Username: Jack Password: Is_cool Position: Manager It should then redirect him to the manager directory
Inputting Timesheets & Hour Distribution	Verify that the data inputted by the user is stored in the appropriate SQL table	The data should be inputted within the (Date) table in the SQL database	If employee John inputs his timesheets & Hour Distribution effectively: Name: John Adams Office Lead: Adam Johnson Date: 21/8/2020 Chargeable Hours: 9 Non-Chargeable Hours: 8 It should then output "Record Successfully stored" and store it within the (Date) table
Viewing Personal Information	Verify that the user can access their personal information	The user's personal information should be displayed on the user profile page within the employee directory	If employee John opens up his personal information page it should display: Name: John Adams Date of Birth: 22/10/2202 Email: john@gmail.com Address: UAE, Dubai, JLT Number: 558576234

Viewing Data Tables consisting of employee time sheets & hour distribution	Verify that the manager can choose and view the employee's time sheets and hour distributions in regards to a specific date.	Once the user selects a date, it should be displayed in table form for the manager to overlook.	<p>If manager Jack selects date 21/8/2020 it should then display a table of employees with their time sheets and hour distribution:</p> <p>Name: John Adams</p> <p>Office Lead: Adam Johnson</p> <p>Chargeable Hours: 9</p> <p>Non Chargeable Hours: 8</p> <p>Total Hours: 17</p> <p>Chargeability: 52.91%</p>
Inputting new Staff Member	Verify that the manager has the ability to input new staff within SQL tables	Once the manager inputs the staff's details and chooses their position within the company's hierarchy, it should be stored within the appropriate table. ('manager_details' or 'employee_details')	<p>If manager Jack inputs details:</p> <p>Office Lead: Adam Johnson</p> <p>Joined On: 21/7/2020</p> <p>Name: Thomas Kay</p> <p>Date of Birth: 27/4/2006</p> <p>Email: thomas @gmail.com</p> <p>Address: UAE, Dubai, JBR</p> <p>Number: 509899900</p> <p>Password: MoUsA989</p> <p>Role: Staff</p> <p>It should then display "Staff member successfully entered"</p>