ASSESSMENT

- 1. Requirement
- 2. Plan to solve the problem
- 3. Insert flowchart
- 4. Update flowchart
- 5. Delete flowchart
- 6. Working days calculation
- 7. Issues

1. Requirement

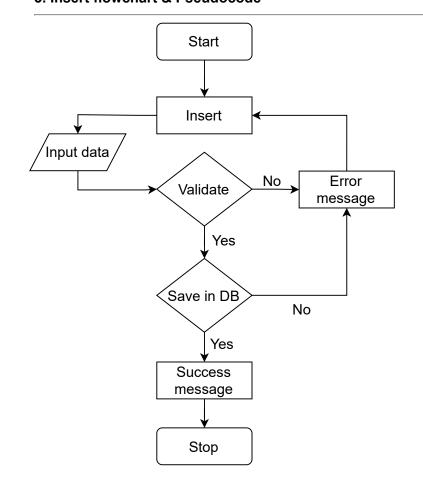
Step 1 - First we need to create 3 data submission forms to Insert, Update, and Delete Employee data. It includes Id, Name, Email, and Job position. Data should verify before storing and all data should save in a database. Finally, show the employee list.

Step 2 - Need to create a separate page for employees to calculate their working days between two dates. Saturday and Sunday are not allowed for the calculation. Dates should verify before calculation. Save public holidays on a table if needed. And finally, show the number of working days to the employee.

2. Plan to solve

- **Step 1** Develop CRUD operations and other basic implementations.
- Step 2 Implement the CACHE mechanism to display employee data.
- Step 3 Design a page and write a program to calculate the employee working dates.
- Step 4 Styling and finalizing the assessment.

3. Insert flowchart & Pseudocode



BEGIN

name:string email:string position:string

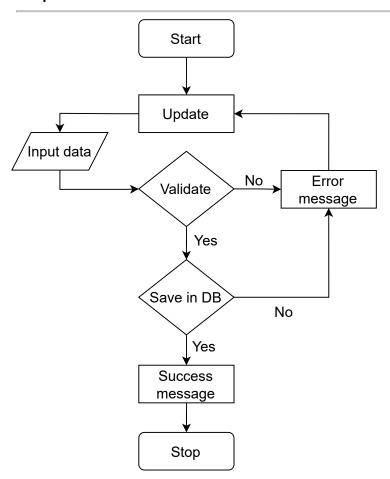
INPUT name, email, position

IF(name == empty) THEN
DISPLAY "error message"
ELSE IF(email == empty) THEN
DISPLAY "error message"
ELSE IF(position == empty) THEN
DISPLAY "error message"
END IF

result = SaveData(name,email,position):bool IF(result) THEN DISPLAY "success message" ELSE THEN DISPLAY "error message" END IF

END

4. Update flowchart & Pseudocode



BEGIN

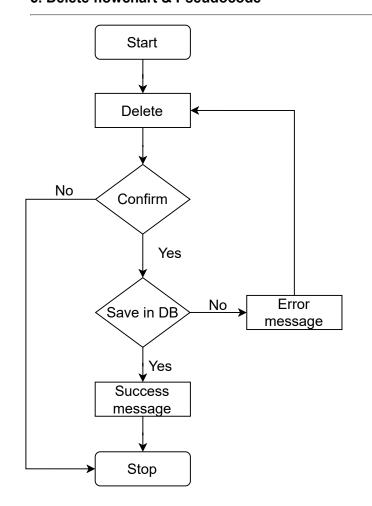
name:string email:string position:string

INPUT name, email, position

IF(name == empty) THEN
DISPLAY "error message"
ELSE IF(email == empty) THEN
DISPLAY "error message"
ELSE IF(position == empty) THEN
DISPLAY "error message"
END IF

result = UpdateData(name,email,position):bool IF(result) THEN
DISPLAY "success message"
ELSE THEN
DISPLAY "error message"
END IF

5. Delete flowchart & Pseudocode



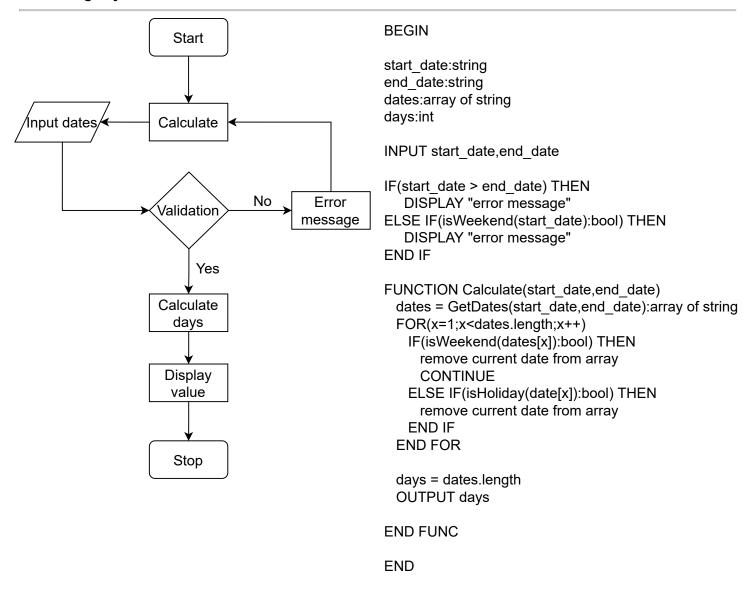
BEGIN

END

confirm = Confirm(id:int):bool
IF(confirm) THEN
result = DeleteRecord(id:int):bool
IF(result) THEN
DISPLAY "success message"
ELSE THEN
DISPLAY "error message"
END IF
END IF

END

6. Working days calculation



7. Issues during the development

1. No idea about the CachedLong method. And I have doubts about which data you want to cache. If I am correct I cached employee data and used that to load employee table view.

NOTE

- 1. I used fewer validations, fewer error handlings, and a few other simple techniques to keep this assessment simple and within the given time frame, I would think I covered all the requirements in this assessment.
- 2. I'm not a frontend developer so, I used custom CSS and JavaScript for the UI and communicate with the server using JavaScript.
- 3. For simplicity I implemented working days calculation only for this month of this year. And it includes 6 world public holidays this month.