

German University in Cairo

Media Engineering and Technology

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Databases I, Winter 2025

Project Description

Milestone 3

Deadline: 5/12/2025

In this milestone, you are required to implement a web application with a user interface that connects to your already implemented database in the previous milestone to perform the different functionalities described in the project.

In your website development, you can use Asp.net using the uploaded guide on CMS or any other technology that you prefer.

Deliverables:

You are required to submit the following:

- .zip file, named after your team number, having the following documents:
 1. Source code of the submitted website: All the source code files needed to run the project.

2. SQL script of the implemented Database: SQL file containing the script of the data of the database that you have implemented on SQL Server (submit the script (Milestone 2)).
3. A PDF file containing:
 - a. Full name.
 - b. Tutorial group.
 - c. ID.

Submission guidelines:

- The deadline of submission for this milestone is Friday 5th of December at 11:59 p.m.
- No late submissions will be accepted under any circumstances.
- There will be a bonus grade for exceptional user interface designs.

Read the following carefully:

- In this document, we divided the website into three main components including 5 parts.
- The grade for each team member will be based on his/her delivered part.
- There will also be a grade for merging all parts together in a fully connected website. This grade is shared between all team members.

Web Application Components

- a) You have to show whether any action on the website was successful or not. In case of any unsuccessful action, you need to notify the user with the reason and the steps needed to correct the action.
- b) The items of each component should be integrated with each other. Furthermore, all components should be integrated together. In other words, we should be able to navigate through your website from one functionality to another by interacting with the web pages of the website and NOT by changing the URL.

1.Admin Component:

In this component you are required to deliver all pages of the application that holds the following functionalities for any signed-in Admin: This component is divided into two sub-parts. One for each team member.

Admin Component Part 1:

1. Login using my admin ID and password (noting that admin Id and password will be hard coded as we don't have an admin table in our database schema).
2. View details for all employee profiles.
3. Fetch the number of employees per department.
4. Fetch details of all rejected medical leaves.
5. Remove deductions of resigned employees based on their employment_status.
6. Update the attendance record for the current day for a certain employee along with the status
7. Add a new official holiday
8. Initiate attendance records for the current day for all employees.

Admin Component Part 2:

1. Fetch the attendance records for all employees for yesterday.
2. Fetch details for the performance of all employees in all Winter semesters.
3. Remove attendance records for all employees during official holidays
4. Remove unattended dayoff for a certain employee from the attendance records of the current month.
5. Remove approved leaves for a certain employee from the attendance records.
6. Replace another employee.

7. Update the employee's employment_status daily based on whether the employee is on leave or active.

2. Academic Employee Component:

In this component you are required to deliver all pages of the application that holds the following functionalities for the logged in Academic Employee. This component is divided into two sub-parts. One for each team member.

Academic Employee Component Part 1:

1. login using my Id and password.
2. Retrieve my performance for a certain semester.
3. Retrieve attendance records for the current month, excluding my unattended official_day_off.
4. Retrieve last month's payroll details
5. Fetch all deductions caused by attendance issues in a certain period.
6. Apply for an annual leave.
7. Retrieve the status of all my submitted annual and accidental leaves during the current month.

Academic Employee Component Part 2:

1. Apply for an accidental leave.
2. Apply for a medical leave.
3. Apply for unpaid leave.
4. Apply for a compensation leave.
5. As a Dean/Vice-dean/President I can approve/reject unpaid leaves.
6. As a Dean/Vice-dean/President I can approve/reject annual leaves.
7. As a Dean, I can evaluate employees within the same department.

3. HR Employee Component:

In this component you are required to deliver all pages of the application that holds the following functionalities for the logged in HR Employee.

1. login using my Id and password.
2. Approve/reject annual/accidental leaves based on the employee's balance
3. Approve/reject unpaid leaves
4. Approve/reject compensation leaves
5. Add deduction due to missing hours.
6. Add deduction due to missing days

7. Add deduction due to unpaid leave. (we can remove this one so they all take 7 points)
8. Generate the monthly payroll