



OBJECT ORIENTED PROGRAMMING TFB1033/TEB1043

HR WEBSITE

Project Final Deliverable Documentation

GROUP NAME: ALGEBROS

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GROUP NAME

Our group name is **Algebros**.

GROUP MEMBERS

NO	NAMA	ID
1	'AFFAN NAJIY BIN RUSDI	22010453
2	MAHENDRA MOHAMAD TANJUNG BIN HANIF MIFTAHUL MUNIR	22010167
3	MUHAMMAD IKHWAN BIN MOHD AZAHARI	22010398
4	MUHAMMAD IMAN HAZIM BIN AHMED SULASTRY	22010203
5	ADHAM ZULHILMI BIN ZAMRI	22010261
6	SYED MUHAMMAD HAFIDZ BIN SYED ALI	22010170

PROJECT DESCRIPTION

Our project is a human resources (HR) website application. The application consists of 18 classes and provides comprehensive tools for managing lists of employees, applicants, feedback, work projects, time tracking, leave requests, and benefits. All of the features can be accessed at the main program. Additionally, it monitors the progress and performance of work, along with employees' key performance indicators (KPIs) and ethics.

Next, the employee list contains detailed information about all employees. The system allows adding new employees, removing and finding a specific employee's information using their identification (ID), and displaying all employees' details. Each employee record includes their name, ID, position, contact number, and status.

Other than that, each employee is evaluated based on their KPI, which is determined across three domains: performance with 30% weightage, ethics 20% weightage, and attendance with 50% weightage. The application also calculates and displays their KPI. Ethics are assessed through a merit system that tracks both merits and violations. The system can deduct merits for violations and display the current merit of the employee alongside each violation detail.

Besides that, the applicant list manages all applicant-related information and can be initialized with a specified size. The system allows adding and removing applicants, displaying their details, and updating their application status. Each applicant's record includes their interview date, name, contact number, and the role they are applying for.

Then, the feedback list allows feedback to be added or removed. It also displays all feedback records. Each feedback entry includes the ID of the person providing the feedback and its content.

On the other hand, the work project list manages the company's projects. Projects can be added to the list and displayed. Each project includes details such as its title and progress percentage. The system tracks whether a project is completed and displays the total work completed across the company. Project completion statuses can also be updated.

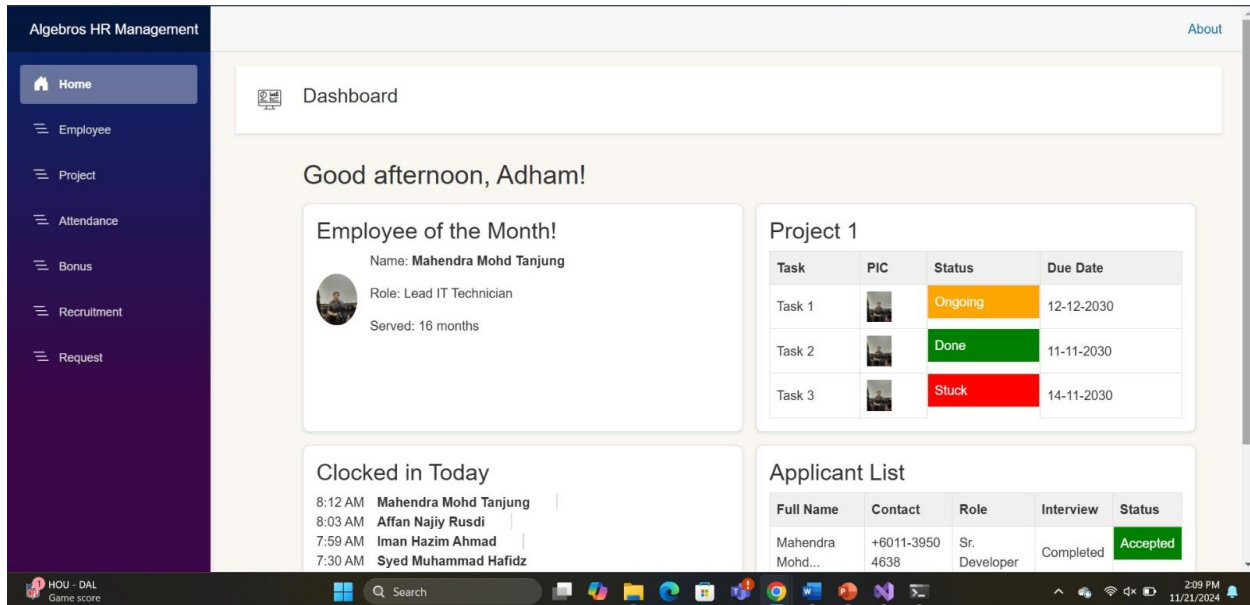
Not only that, but the time tracking system logs employee also working hours. Time records can be added or removed, and specific employee time tracking information can be retrieved using their ID. In addition, time tracking of all employees can be displayed too. The system displays each employee's start time, end time, and total hours worked.

Next, the leave request list manages all employee leave requests. Requests can be added or removed and searched using an employee's ID. All leave requests can also be displayed. Each leave request includes the reason, approval status, leave date, and number of days taken.

Lastly, the benefits list contains all information related to employee benefits. Benefits can be added or removed and searched using employee IDs. Benefits received by all employees can also be displayed. Each benefit entry includes details such as the employee's ID, KPI, paid leave, and bonus. Benefits are assigned based on KPI scores, which are KPI of 90 and above; the employee will receive 5 days of paid leave and a RM1,000 bonus; KPI between 60 and 89 will receive 2 days of paid leave and a RM400 bonus; meanwhile, KPI < 60 means there is no paid leave or bonus.

Thus, this HR website application ensures efficient handling of employee records, performance metrics, project tracking, and administrative tasks, making it an indispensable tool for modern organizations.

SCREENSHOTS



The screenshot shows the 'Home' dashboard of the 'Algebros HR Management' system. The left sidebar contains navigation links: Home, Employee, Project, Attendance, Bonus, Recruitment, and Request. The main content area displays a greeting 'Good afternoon, Adham!' and several widgets:

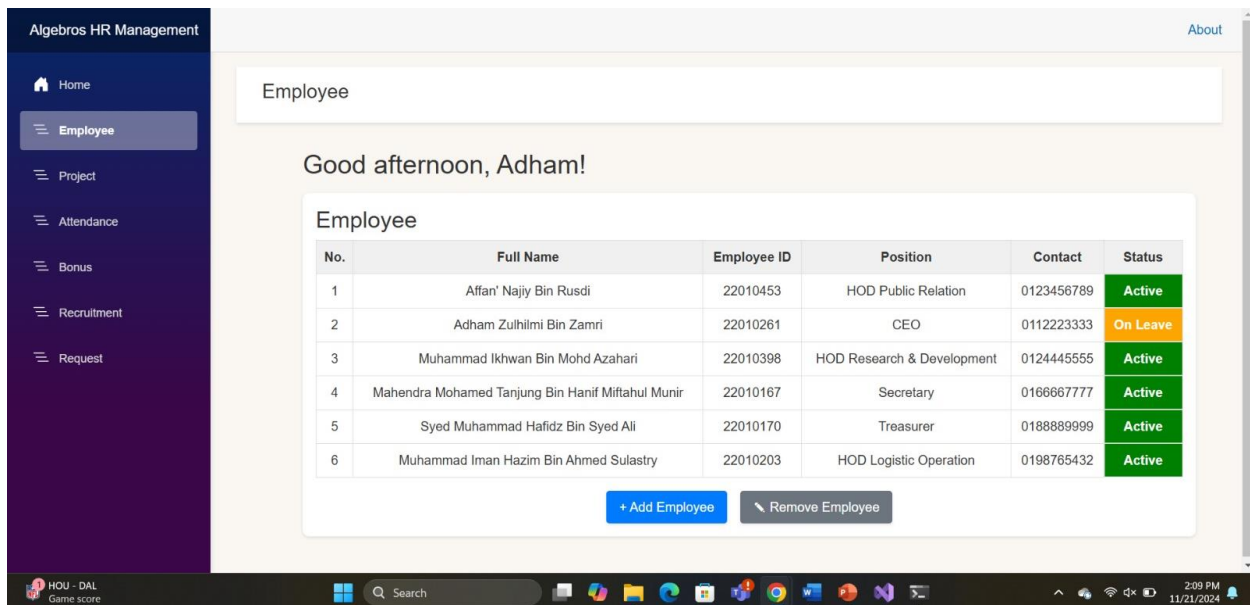
- Employee of the Month!**: Name: Mahendra Mohd Tanjung, Role: Lead IT Technician, Served: 16 months.
- Project 1**: A table showing task status.
- Clocked in Today**: A list of employees and their clock-in times.
- Applicant List**: A table showing applicant details.

Task	PIC	Status	Due Date
Task 1		Ongoing	12-12-2030
Task 2		Done	11-11-2030
Task 3		Stuck	14-11-2030

Time	Employee
8:12 AM	Mahendra Mohd Tanjung
8:03 AM	Affan Najiy Rusdi
7:59 AM	Iman Hazim Ahmad
7:30 AM	Syed Muhammad Hafidz

Full Name	Contact	Role	Interview	Status
Mahendra Mohd...	+6011-3950 4638	Sr. Developer	Completed	Accepted

Home



The screenshot shows the 'Employee' page of the 'Algebros HR Management' system. The left sidebar contains navigation links: Home, Employee, Project, Attendance, Bonus, Recruitment, and Request. The main content area displays a greeting 'Good afternoon, Adham!' and a table of employees.

No.	Full Name	Employee ID	Position	Contact	Status
1	Affan' Najiy Bin Rusdi	22010453	HOD Public Relation	0123456789	Active
2	Adham Zulhilmi Bin Zamri	22010261	CEO	0112223333	On Leave
3	Muhammad Ikhwan Bin Mohd Azahari	22010398	HOD Research & Development	0124445555	Active
4	Mahendra Mohamed Tanjung Bin Hanif Miftahul Munir	22010167	Secretary	0166667777	Active
5	Syed Muhammad Hafidz Bin Syed Ali	22010170	Treasurer	0188889999	Active
6	Muhammad Iman Hazim Bin Ahmed Sulastry	22010203	HOD Logistic Operation	0198765432	Active

Buttons: + Add Employee, Remove Employee

Employee

The screenshot shows the 'Project' page of the Algebros HR Management system. The left sidebar contains a menu with options: Home, Employee, Project (selected), Attendance, Bonus, Recruitment, and Request. The main content area has a header 'Project' and a greeting 'Good afternoon, Adham!'. Below the greeting is a section titled 'Project 1' containing a table with the following data:

Task	PIC	Status	Due Date
Stellar Nexus		Ongoing	12-12-2030
Quantum Horizon		Done	11-11-2030
Echo Forge		Stuck	14-11-2030

Below the table are two buttons: '+ Add Project' and 'Edit Project'. The bottom of the screen shows a Windows taskbar with the date and time '2:09 PM 11/21/2024'.

Project

The screenshot shows the 'Attendance' page of the Algebros HR Management system. The left sidebar contains a menu with options: Home, Employee, Project, Attendance (selected), Bonus, Recruitment, and Request. The main content area has a header 'Attendance' and a greeting 'Good afternoon, Adham!'. Below the greeting are two sections: 'Clocked In' and 'On Leave'. The 'Clocked In' section shows the following information:

Name: Mahendra Mohd Tanjung
Time: 8:12 AM
Status: Clocked In

The 'On Leave' section shows the following information:

Name: John Doe
Reason: Family Emergency

The bottom of the screen shows a Windows taskbar with the date and time '2:09 PM 11/21/2024'.

Attendance

The screenshot shows the 'Bonus' page of the Algebros HR Management system. The left sidebar contains a menu with options: Home, Employee, Project, Attendance, Bonus (selected), Recruitment, and Request. The main content area has a header 'Good Afternoon, Adham!' and a section titled 'Paid Leave Employees'. This section displays six employee cards arranged in a 3x2 grid. Each card includes a profile picture, the employee's name, ID, and position. The Windows taskbar at the bottom shows the system time as 2:09 PM on 11/21/2024.

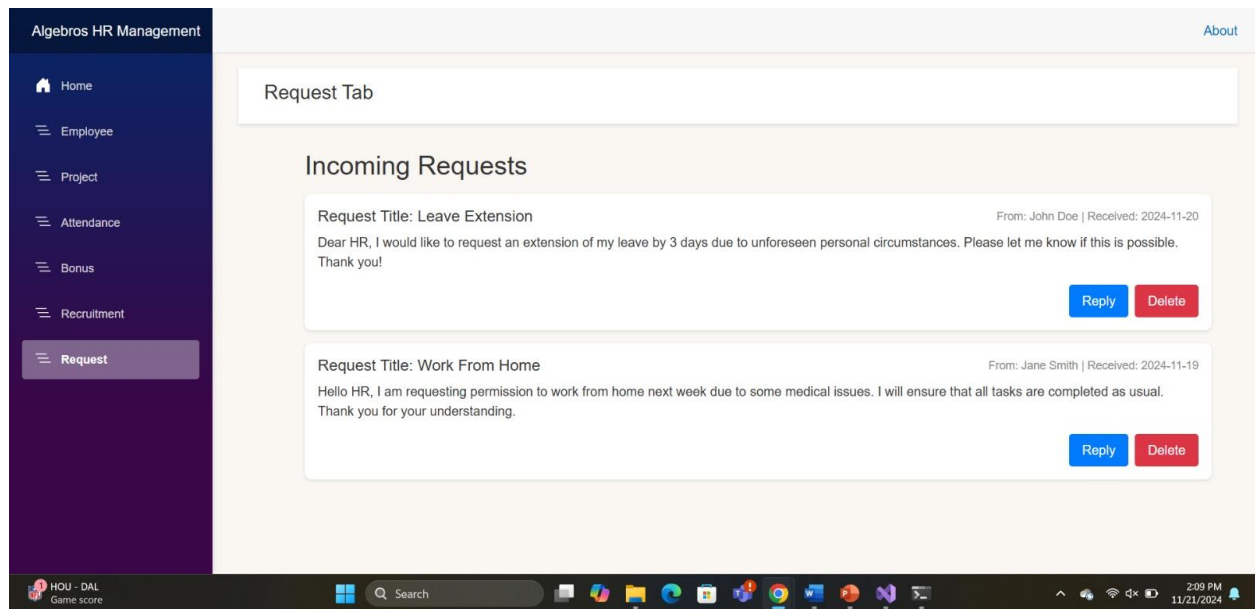
Employee ID	Name	Position
E123	John Doe	Manager
E124	Jane Smith	Developer
E125	Mark Johnson	Designer
E126	Lisa Brown	Analyst
E127	Paul Davis	Support
E128	Emma Wilson	Consultant

Bonus

The screenshot shows the 'Recruitment' page of the Algebros HR Management system. The left sidebar contains a menu with options: Home, Employee, Project, Attendance, Bonus, Recruitment (selected), and Request. The main content area has a header 'Good afternoon, Adham!' and a section titled 'Recruitment'. This section displays an 'Applicant List' table with columns: Full Name, Contact, Role, Interview, and Status. Below the table are two buttons: '+ Add Applicant' and '- Applicant'. The Windows taskbar at the bottom shows the system time as 2:09 PM on 11/21/2024.

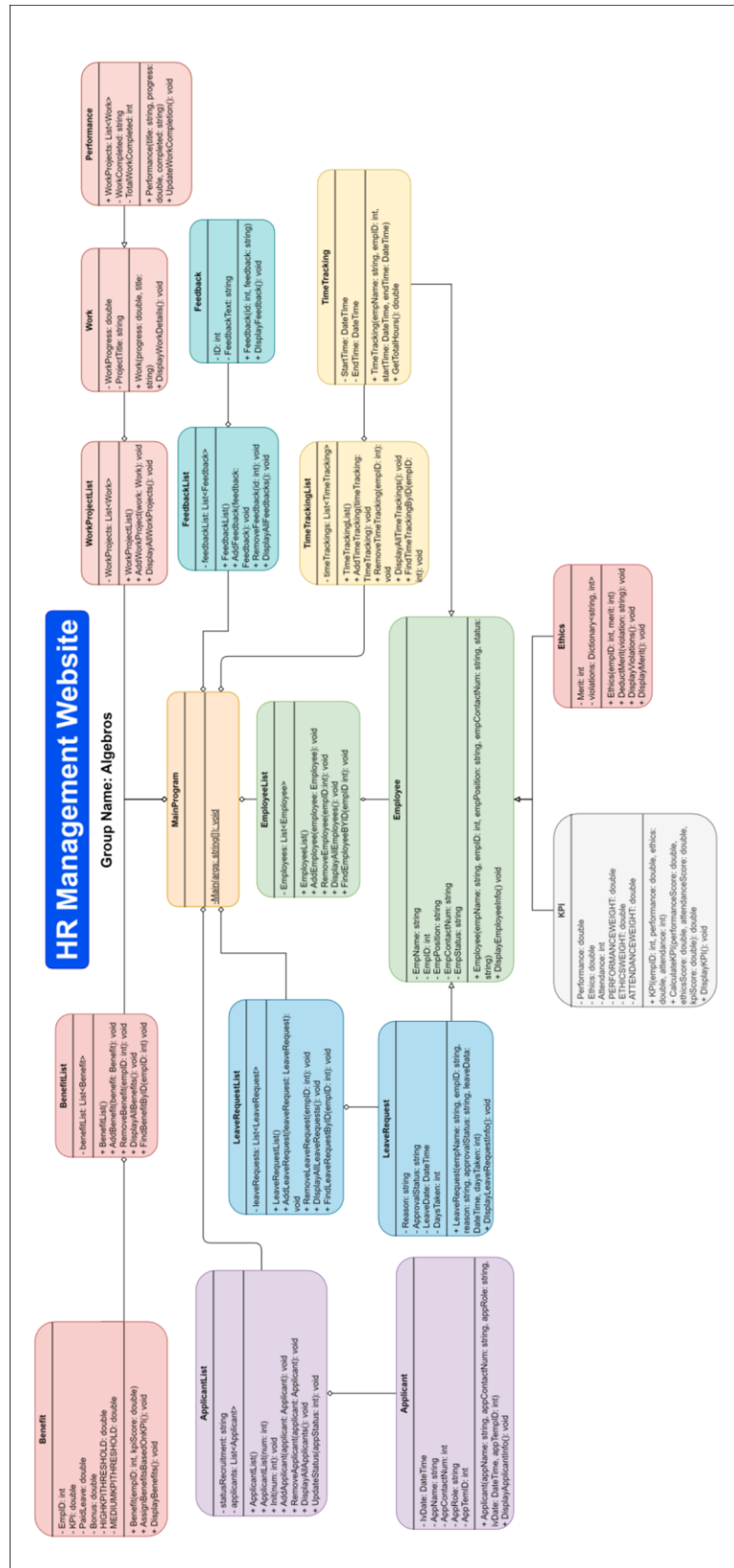
Full Name	Contact	Role	Interview	Status
Adham Zulhilmi Bin Zamri	01164875975	Supervisor	12/10/2024	Accepted
Muhammad Iman Hazim Bin Ahmed Sulastry	0123456789	Accountant	20/11/2024	Pending
Syed Muhammad Hafidz Bin Syed Ali	01987654321	Software Engineer	19/08/2024	Rejected

Recruitment



Request

UML



EVALUATION BLAZOR PLATFORM

Blazor is a useful tool for developing user interface of web applications. This is useful for our HR Application as it provides a clear framework for our group to work on in developing a useful interface for the users in managing the company's HR department. Its ability to run on WebAssembly also ensures a smooth, high-performance experience for users without relying heavily on server resources. Its seamless integration with existing .NET libraries and tools makes it an excellent choice for building robust, scalable web applications.







For our HR application, Blazor provides a clear and structured framework for designing a user-friendly interface that caters to the needs of the HR department. It simplifies the development of complex functionalities, such as employee management, applicant management, and performance tracking, by enabling the creation of modular components. These components can be customized and reused across different parts of the application, ensuring consistency while reducing the development effort required. Blazor's capabilities also allow for real-time updates, which are crucial for maintaining up-to-date HR data and improving workflow efficiency.

By adopting Blazor, our team can focus on delivering an intuitive and accessible platform for HR professionals, ensuring that the application enhances productivity and decision-making. The streamlined interface will enable users to navigate tasks effortlessly, reducing the learning curve and increasing adoption rates. Ultimately, Blazor's robust features and developer-friendly environment position it as a vital tool in creating a modern HR management solution tailored to the company's needs.

TEAM CONTRIBUTION STATEMENT

Team Name: Algebros

Github: https://github.com/affannajiy/OOP_Algebro

Name	ID	Task / Classes / Methods	Signature
Adham Zulhilmi bin Zamri	22010261	Employee.cs, Program.cs, Benefit.cs, Ethics.cs, Feedback.cs, LeaveRequest.cs, Performance.cs, TimeTracking.cs, Work.cs, FirestoreManager.cs	
Muhammad Ikhwan bin Mohd Azahari	22010398	UML Diagram, Project Description	
'Affan Najiy Bin Rusdi	22010453	FirestoreManager.cs, Program.cs, README	
Muhammad Iman Hazim bin Ahmed Sulastry	22010203	Screenshots, Evaluation of Platform, Video Screen Capture	
Mahendra Mohamad Tanjung Bin Hanif Miftahul Munir	22010167	Proposal, Raw and Code Design, Blazor	
Syed Muhammad Hafidz bin Syed Ali	22010170	Designing GUI for Website	

I, _Adham Zulhilmi Bin Zamri_ (2201026), the leader/rep for _Algebros_ hereby declare that the information provided is true and correct. I also understand that any willful dishonesty or cover up may render the group submission invalid.

Signature:



Date: 21/11/2024

