

# Employees Management System

**Prepared by:**

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**Prepared for:**

Giza Systems

**Prepared on:**

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Dear Customer,

I've received your request to build a Management System for employees in your company and I'd like to confirm that I've +3 years of experience in software industry and I've the full requirements to complete the project for you.

Please, take your time to review my Proposal and I'm free to discuss it with you. I'll be happy to answer your inquiries and discuss any suggestions.

Please, confirm Proposal acceptance as soon as you're ready to start work with us.

Best Regards,

Aya Osama

Software developer Specialist

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### **Project Scope:**

The website will provide you with a full management of all employees in your company including their personal data, attendance, vacations and departments. It'll be also open for any addition feature or module you may need later.

### **Project Stages:**

It'll go through 5 stages as following

Stage	Date
Requirements Analysis	Approx. date
Software design	Approx. date
development and Implementation	Approx. date
Testing Phase	Approx. date
Production Phase	Approx. date

### **Project Screens:**

1. Login screen
2. User profile screen
3. Employee screen
4. Manager screen
5. Admin screen
6. Vacations screen
7. Departments screen
8. Dashboard screen

## **Project functionalities:**

<b>Screen</b>	<b>functionalities</b>
Login screen	<ol style="list-style-type: none"><li>1. Login with credentials</li><li>2. Reset password if forget</li></ol>
User Profile screen	<ol style="list-style-type: none"><li>1. User personal data [Image – Name - Mobile – Email – Address - BOD]</li><li>2. User Work data [Job title – Department – hiring date – Annual balance]</li></ol>
Employee screen	<ol style="list-style-type: none"><li>1. Apply for request vacation / permission</li><li>2. Requests History</li></ol>
Manager screen	<ol style="list-style-type: none"><li>1. For any required approvals</li><li>2. Show all employees that direct / indirect report to him</li></ol>
Admin screen	<ol style="list-style-type: none"><li>1. Add / Modify / delete employees</li><li>2. Add / Modify / delete departments</li></ol>
Vacations screens	<ol style="list-style-type: none"><li>1. Show all pending vacation requests that need to take an action</li><li>2. Show all vacation requests history</li></ol>
Departments screen	Show all company departments with each dept. employees
Dashboard	Friendly screen to show overall system analysis.

## **Technologies:**

This solution will be built using MSSQL, .NET 6 WEB API, ANGULAR 14

## **Security:**

To provide a system security we'll follow some steps:

- HTTPS protocol: by using middleware like HTTPS redirection and HSTS Header.
- Authentication and Authorization: using JWT Tokens.
- Role and Policy-based Authorization
- Input validation: using client and server side input data validation.
- Secure data: by using strong Passwords, Hashing and sensitive data encryption.
- White-list: whit-list the IPs / domains who can access our site it so It'll not be open for everyone.
- SSL/TLS Certificate: to secure our site communication over internet.

## **Hosting:**



Why we use SmarterASP.NET for WEB hosting?

- It provides us with 60 days of free trial
- Have different packages
- High compatibility with different versions
- High Performance
- SSL Certificate



### Why we use CLOUDFLARE as DNS SERVER?

- It provides us with a unique website name
- It's considered as fastest DNS servers today
- It has built-in features to prevent cyber-attacks

### Project Cost:

\$Approx\_cost as a deposit

\$Approx\_cost as a final cost

### Proposal:

This Proposal is the only for the agreement features mentioned above and any other changes or additions to the scope of the project will be discussed and agreed in a separate document.

Thanks for your appreciated time and looking forward to hearing from you soon.

Written by:

*Aya Osama*