

AIRPORT MANAGEMENT SYSTEM

PROJECT ABSTRACT

VERSION 1.0



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1.0 Purpose of this document

The purpose of the project is to develop an airport management system to optimize all the operations like employees' profile, flight tagging and handling, arrival/departure operations, information distribution and many more in the most efficient way.

2.0 Business case

Project overview

The project named "Airport Management System" is a web application using which employees can register their account by providing the required details. After successful login they will be redirected to their respective home pages based on the profile from where they can perform certain actions which are available for them like checking their work schedule, raising queries, available flight slots, rescheduling and many more.

The primary objective of our project is to develop a web application that will satisfy the needs of the airport in a safe, efficient way. The plan serves as a guide to admin, employees for implementing airport development actions in line with both airport and community concerns and objectives.

It consists of three types of user profiles: -

Admin

Admin will play a very important role in our project as most important functionalities will be performed by admin only like approve/reject employee registration request, add/update plane details, update the Waypoints, destination location, departure location and alternate airport, add/update pilot's work schedule details, view/approve the rescheduling request, add hangar details.

Pilot

Pilot is an employee and must enter valid login credentials to perform his operations. After login, the pilot can see their work schedule, request some rescheduling, report issue and update flight checklists. The pilot can also check the status of their flights.

Manager

Manager is an employee and must enter valid login credentials to perform his operations. After login, the manager can allot planes to hangar, update the Hangar details.

Future Scope

This project provides a facility to digitalize the modern airport management system. It is time saving as it allows the admin to keep count on the status of flights and the management of all the customers in a very efficient way. A well-chosen system will save the valuable administration time, lead to a better experience.

Software Interface

- Operating system: Windows XP, 7, 8, 8.1 and higher
- Platform: Visual Studio 2019, GitHub, Docker
- Database: SQL server, Entity Framework Core
- Cloud: Azure
- Language: C#, HTML, CSS, JAVASCRIPT, BOOTSTRAP, ASP Dotnet Core

Hardware Interface

- Intel Pentium 4 or higher processor
- 512 MB of RAM or more

3.0 Appendices

3.1 Glossary

Acronyms	Definitions
Admin	Owner of the system (Developer)
End User	Employee

4.0 Terms & Conditions

Employee (Pilot and Manager) will not be able to login even after successful registration until the admin approves their registration request.

5.0 Change Log

Version Number	Changes made			
	Page no	Changed by	Effective date	Changes effected