International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056
Volume: 04 Issue: 10 | Oct -2017 www.irjet.net p-ISSN: 2395-0072

Airline Flight Schedule Notification Application (AFSNA)

Nitumani Sarmah[2], Joydeep Koushik[2]

[1]Academic Counsellor, School of Computer and Information Sciences, IGNOU, Guwahati Centre
[2]Schools of Computer and Information Sciences, IGNOU, Guwahati Centre

---

Abstract - *Airline flight schedule notification application (AFSNA) is a web based application that is designed to notify people about the flight timings and other flight related information. Using this system users can get the information about flight timing, and is it on time or not, and other information. In this system there is an admin module which enters the detail about flights and its timing and these details passes through internet server and is fetched by the system at other airports, and there is other system that shows flight information to the viewers at Airport. Second system will get all the information of all flights but will automatically select the data that refers to particular airport and shows that information on screen. . This project publishes real-time flight schedule events to subscribing multiple client applications.*

Key Words: Airline, Flight, Schedule, Reservation, Database.

1. INTRODUCTION

Airline flight schedule notification application (AFSNA) is a web based application that is designed to notify people about the flight timings and other flight related information. In this system there is an admin module which enters the detail about flights and its timing and these details passes through internet server and is fetched by the system on other airports, and there is other system that shows flight information to the viewers on Airport. Second system will get all the information of all flights but will automatically select the data that refers to that particular airport and shows that information on screen. The airline flight schedule notification application is a online web application that is accessible to the users having just a computer with internet connectivity. There is no installation required to run this application, it can be run directly from any web browser.

1.1 Advantages

The following are some listed advantages of the system as compiled.

- Traveler's Family can see that if the flight is on time or not.
- All Traffic Admin Centers will know the timing of take-off and landing of flight.
- Flight schedules can be accessed directly by visiting the website instead of visiting airport.
- This is a web based application can be accessed globally and from any internet enabled device.
- Real time update on flight status.

2. MODULE DESCRIPTIONS

Following modules will be available in the web application to perform and manage various tasks.

2.1 Profile Management Module

This module holds the account information for the user. It has facility for the user to update profile details like name, e-mail, contact numbers etc. Using this module user can change the password periodically or whenever required.

2.2 Dashboard Module

This module is first interface to the user after log-in into the system. This provides quick access to frequently used modules by the user. It also has various information blocks to display application related information or data in list or graphical chart. It may contain various input blocks(forms) to quickly enter data. The dashboard will also have navigation menu to access other modules in the application.

2.3 Airline Management Module

This module can be used to manage airlines being managed in the application. At this module airlines can be added by their name, description and logo image. The details of airlines can be edited, deleted and also can be searched by airlines name.

2.4 Flight Management Module

User will be able to add flights under airlines with details like flight no, departure time, arrival time, the Airports etc. At this module flight details can be edited and also can be deleted.

2.5 Airport Management Module

Using this module Airports or airports can be managed. While adding Airports details like Airport name, Airport address, and primary contact no, email-id and emergency numbers can be added. The Airports can be added and delayed using this module.

2.6 Flight Schedule Management Module

At this module the departure time of the flights can be added. The departure time of the flights can be edited only by the user who has added it. The departure can be deleted only by the super admin.

2.7 Flight Update Management Module

At this module the arrival time of flights can be updated by the traffic admin. The traffic admin can only update the flights which are arriving at his Airport.

2.8 Flight Status Management Module

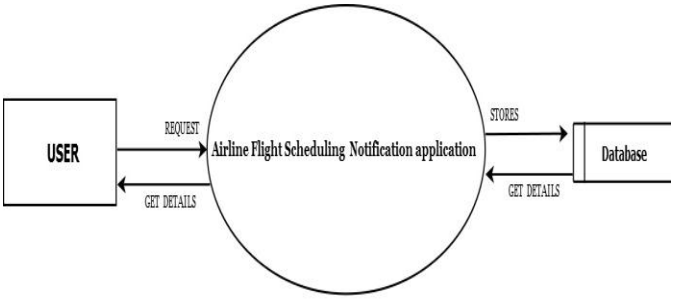
Using this module the status of flight can be retrieved by various options like selecting airline and Airport, entering the flight number, selecting the date and Airport.

3. SYSTEM DESIGN

Systems design is the process of defining the architecture, modules, interfaces, and data for a system to satisfy specified requirements. Systems design could be seen as the application of systems theory to product development. There is some overlap with the disciplines of systems analysis, systems architecture and systems engineering.

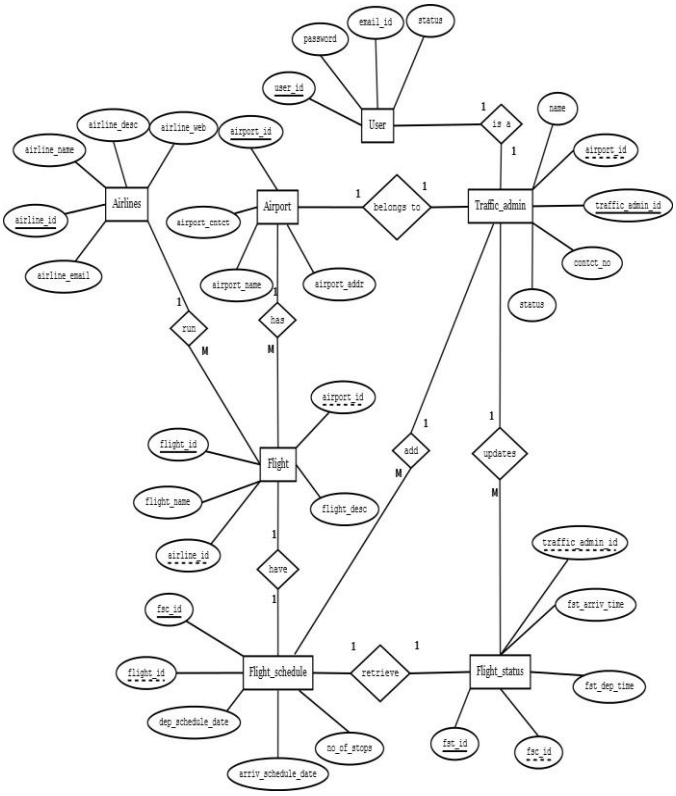
3.1 Context Diagram

A system context diagram (SCD) in engineering is a diagram that defines the boundary between the system, or part of a system, and its environment, showing the entities that interact with it. This diagram is a high level view of a system. It is similar to a block diagram. So in the below depicted diagram we have showcased the working principle of our work.



3.2 ER Diagram

The following ER Diagram is created to represent attributes as well as entities and relationships. It is typically implemented as a database.



4. FUTURE WORK BASED ON MY WORK

The development of this project, AFSNA surely prompts many new areas of investigation. This project has wide scope to implement it in various sectors of our day to day activities. This project can serve as a great deal of comfort for the passengers or the passenger's friends and their relatives. Notifications can be sent to the passengers to alert them or keep them updated about the scheduling of flights. Also, a responsive website can be developed out of this application. A mobile application for this project can be developed to make it portable. We can also add various features to this application such as searching for flight ticket fares, reservation of flight tickets, cancelling of flight tickets etc. Another scope is that, we can make the application secure by allowing only the authorized users to access it who have registered their id and password. We can add encrypting algorithms to restrict anyone with destructive or malicious mind accessing the database. GPS tracking feature will help the passengers to track the nearest airport from their current location and that's how they can adjust their timings in reaching the airport according to the scheduled flight time.

4. CONCLUSIONS

This, Airline Flight Schedule Notification Application (AFSNA) project implements an online notification system for the scheduled information of any airline reservation. It can be said with full assurance that if the system is fully

implemented, all the advantages of an Airline Flight Schedule Notification Application, such as, time saving, 24-hour working service, access to the service from anywhere in the world, and much more will be achieved.

Furthermore, The Airline Flight Scheduling Notification Application Project is not done for the purpose of being undertaken by any industry or client.

ACKNOWLEDGEMENT

We would like to express my deepest appreciation to all those who provided me the possibility to complete this paper and also the work. A special gratitude we give to Mr. Umesh Sinha Sir, whose contribution in stimulating suggestions and encouragement, helped us to coordinate our work especially in writing this paper.

REFERENCES

[1] B. Agusdinata, W. de Klein, The dynamics of airline alliances, Journal of Air Transport Management, 8 (4), 2002, pp.201–211.

[2] D. Copeland, J. McKenney, Airline reservation systems: Lessons from history, MIS Quarterly, 12, 1988, pp.535-370.

[3] Wikipedia, Notification system, https://en.wikipedia.org/wiki/Notification_service.

[4] https://www.jetairways.com/EN/MU/planyourtravel/flight-status-notification.aspx.

[5] Airline Reservation Systems. In Wikipedia (2016, August). Retrieved from http://en.wikipedia.org/wiki/Airline_reservations_system.

BIOGRAPHIES

Mr. Nitumani Sarmah
Assistant Professor, USTM.
Also Working as Academic Counselor at IGNOU, School of Computer and Information Sciences, Guwahati Regional Center.

Mr. Joydeep Koushik
School of Computer and Information Sciences.
IGNOU, Guwahati Regional Center