

Online Airline Reservation System

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Abstract- Online Airline Reservation System is a Web based application for a particular Airlines company. This application facilitates registering, updating, and utilization of miles for a Frequent Flier of its flights. The frequent flier should be able to login and key in all the details of his travel in their airlines. The application is accessible for the frequent fliers from the existing website of the airlines. Airline reservation System is a computerized system used to store and retrieve information and conduct transactions related to air travel. The project is aimed at exposing the relevance and importance of Airline Reservation Systems. It is projected towards enhancing the relationship between customers and airline agencies through the use of ARSs, and thereby making it convenient for the customers to book the flights as when they require such that they can utilize this software to make reservations.

INTRODUCTION

It is obvious that everything that is sustainable would have to go through advancement. In science and technology, the desire for improvement is a constant subject which triggers advancements. This is visible in every ramification and the airline industry is not an exemption. Airline Reservation Systems (ARS) used to be standalone systems. Each airline had its own system, disconnected from other airlines or ticket agents, and usable only by a designated number of airline employees. Travel agents in the 1970s pushed for access to the airlines 'systems. Today, air travel information is linked, stored, and retrieved by a network of Computer Reservations Systems (CRS), accessible by multiple airlines and travel agents. The global distribution system (GDS) makes for an even larger web of airline information, not only merging buying and selling of tickets for multiple airlines, but also making the systems accessible consumers directly. GDS portals and gateways on the Web allow consumers to purchase tickets directly, select seats, and even book hotels and rental cars. This existing

system is not providing secure registration and profile management of all the users properly.

This manual system gives us very less security for saving data and some data may be lost due to mismanagement. The system is giving only less memory usage for the users.

The development of this new system contains the following activities, which try to automate the entire process keeping in the view of database integration approach. This system maintains user's personal, address, and contact details.

User friendliness is provided in the application with various controls provided by system rich user interface. This system makes the overall project management much easier and flexible.

Various classes have been used for maintain the details of all the users and catalog. Authentication is provided for this application only registered users can access. Report generation features is provided using to generate different kind of reports. This system is providing more memory for the users to maintain data. This system is providing accessibility control to data with respect to users.

Modules:-

The system after careful analysis has been identified to be presented with the following modules:

The Modules involved are

1. Authentication and Security Module.
2. Admin Module
3. Flyer Module.
4. Flight Management Module.
5. Service Management Module.
6. Reports Module.

MODULES DESCRIPTION

Module description for each module mention on top

Admin Module:

In this administration module, admin should login to the system to access this system. After he logged Admin can add flight details and also he/she can modify the flight details belong to particular airline services. And also he/she has able to add services like hotels in different countries.

And admin can also monitor the users login and logout details.

And also he can suggest to the frequent flyer through mails about the points and services. The admin can communicate with the users of this system.

Flight Management Module:

In this module admin can add flight details and also he/she can modify and delete the flight details. This module serves the user like on which dates flights available and how many seats are available to book a ticket.

Frequent Flyer Module:

In this module the flyer should register to access this system. Frequent flyer means, the person who travel frequently by air. The frequent flyer should login to the system, to utilize the benefits of the frequent flyer offered by particular airline services. This system maintains the complete details of the registered user and also its facilitate to update and modify the details of the user. In this module the user can book a ticket and see the status of the flight between two points. This system facilitates to know how many points the user need to travel from one place to another place with free ticket.

The frequent flyer of this system can send queries to the admin via mails and he can also ask about the accumulate miles.

Security and authentication module:

In this module this system stores the details of the registered user with safe and secure manner. And it can allow only authentication user to access the system. This system prevents the unauthorized accessing and malfunctioning.

Service Management Module:

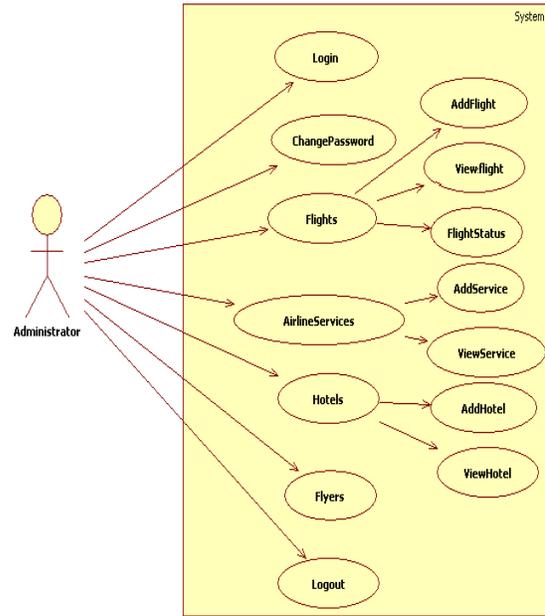
In this module the administration can add the services provided by the airline service and he can also modify the services .He has to add service from source to destination and distance between two points.

Report Module:

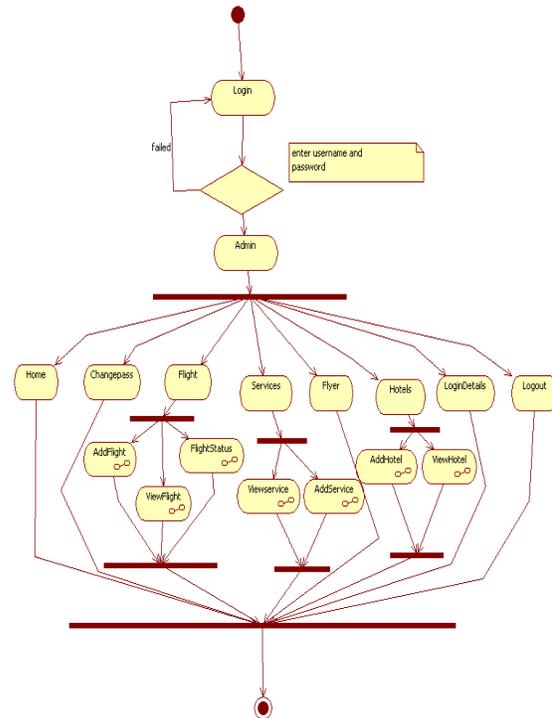
In this module the data from the database will be shown in tabular format as report to the users of this system.

SYSTEM DESIGN

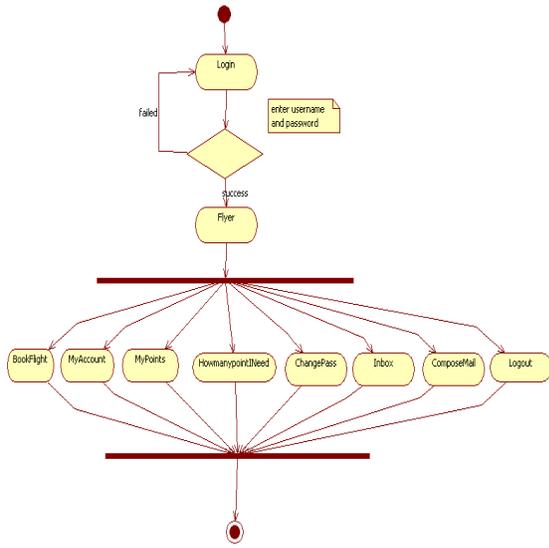
Admin use case diagram:-



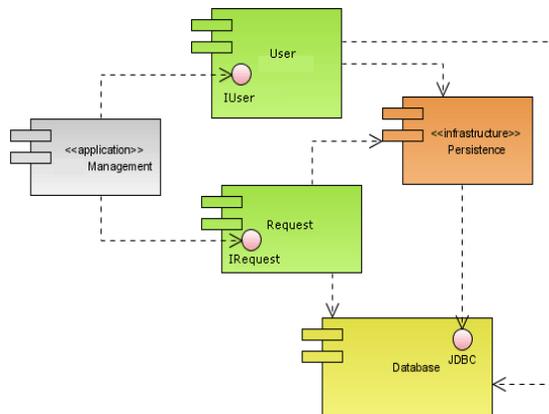
Admin Activity Diagram:-



User Activity Diagram:-

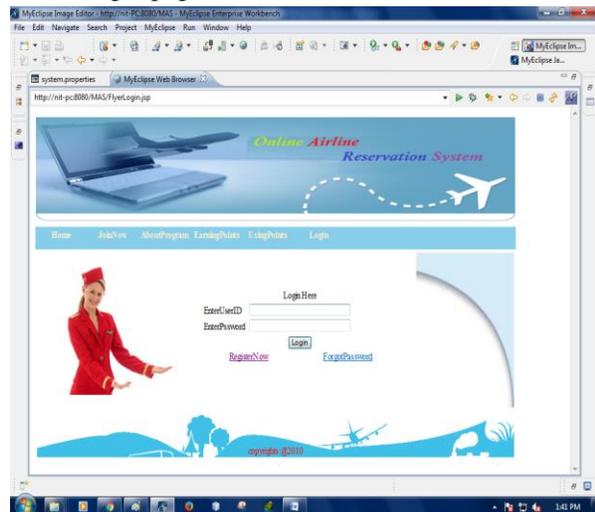


Component diagram:-

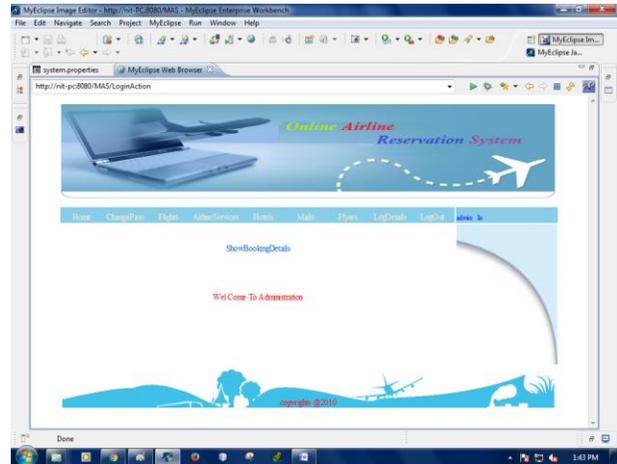


Screen shots:-

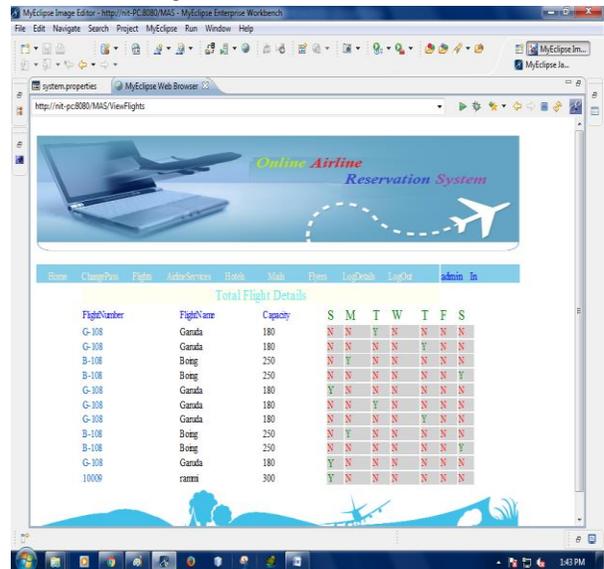
Admin login page



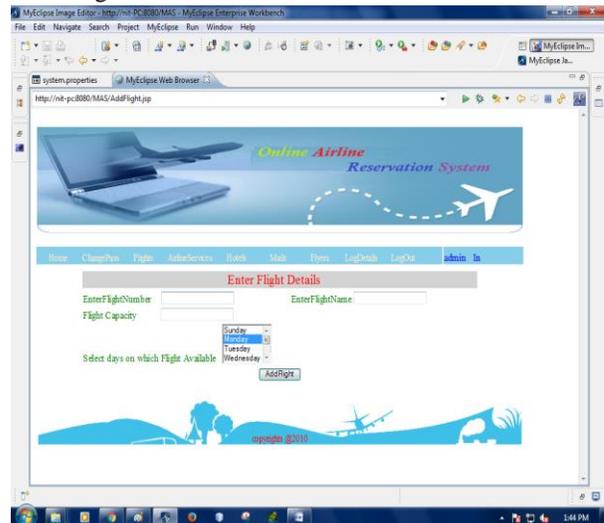
Admin home page



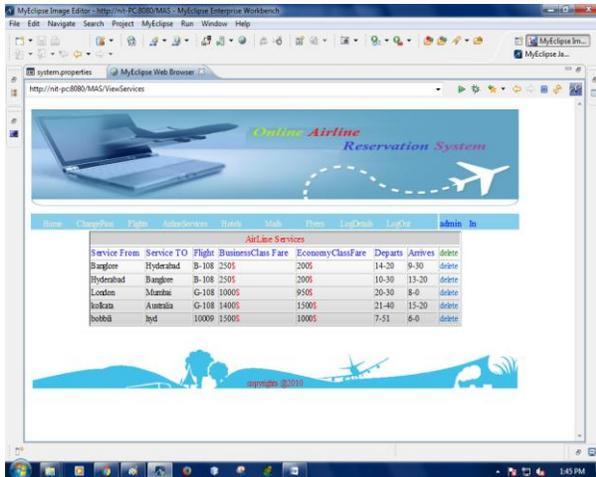
Admin view flight details



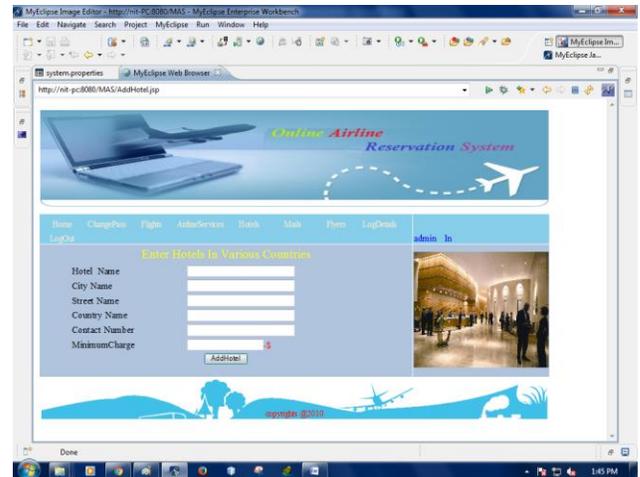
Enter flight details



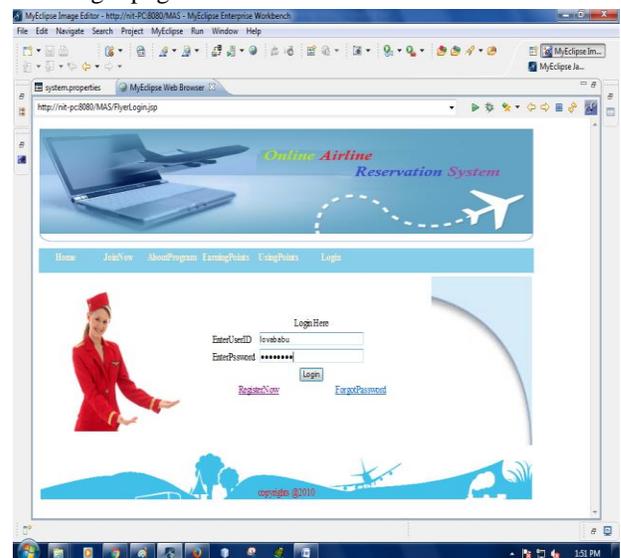
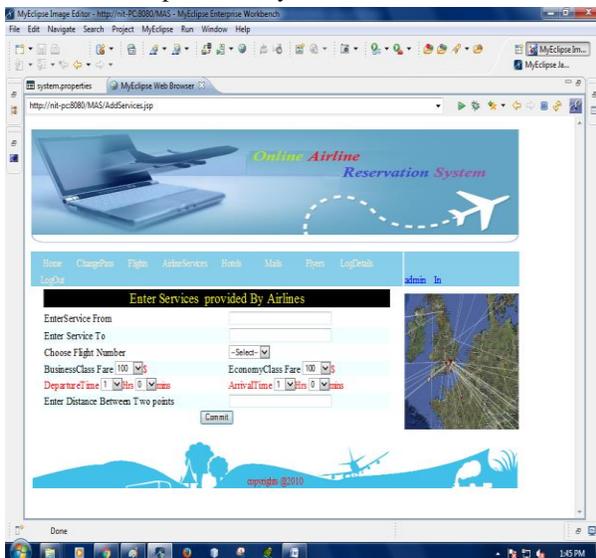
Manage flight details



Enter services provided by airlines

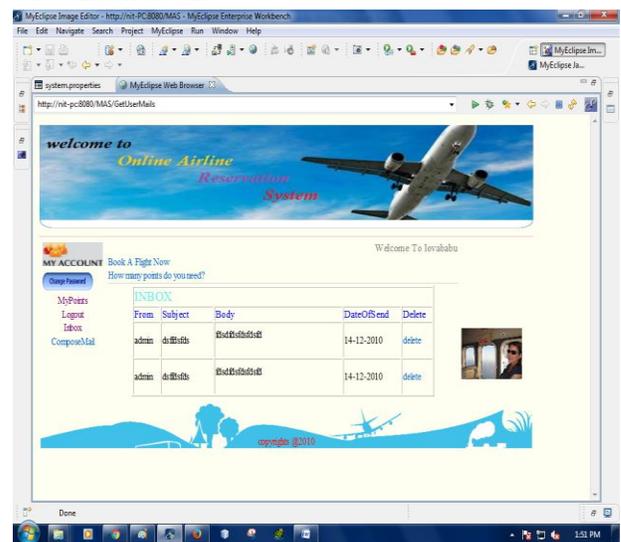
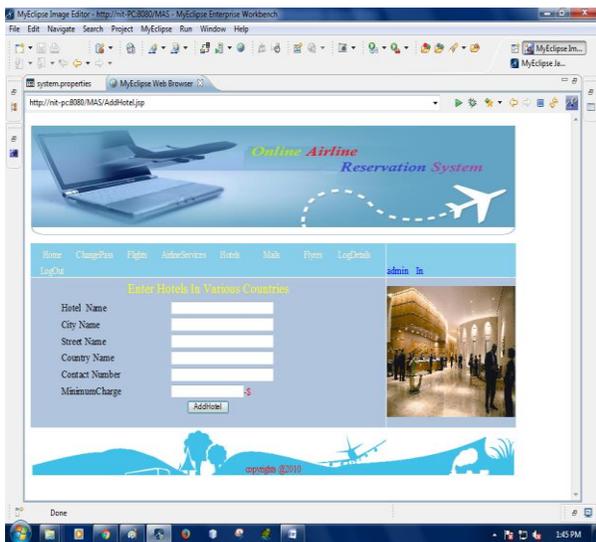


User login page



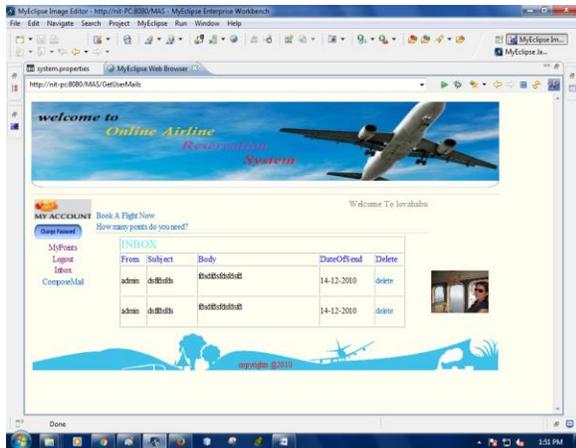
Enter hotel details

View inbox details

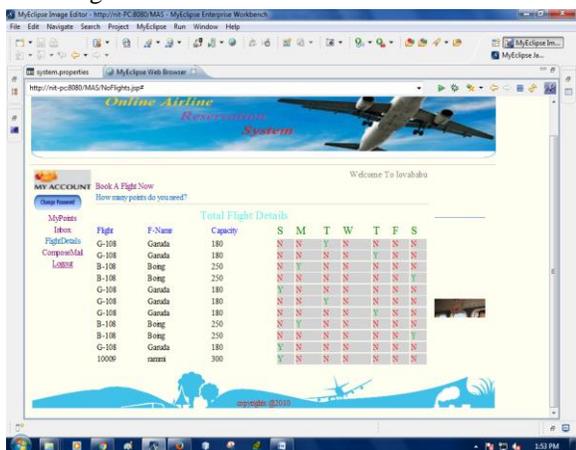


View inbox details

Enter journey details



View flight details



CONCLUSION

The “airline reservation system” was successfully designed and is tested for accuracy and quality. During this project we have accomplished all the objectives and this project meets the needs of the organization. The developed will be used in searching, retrieving and generating information for the concerned requests. The advantages that are with this proposed system are Reduced entry work, Easy retrieval of information ,Reduced errors due to human intervention, User friendly screens to enter the data, Portable and flexible for further enhancement ,Web enabled and Fast finding of information requested.

BIBLIOGRAPHY

- [1] Java Complete Reference by Herbert Shield
- [2] Database Programming with JDBC and Java by George Reese
- [3] Java and XML By Brett McLaughlin

- [4] Wikipedia,URL: <http://www.wikipedia.org>.
- [5] Answers.com, Online Dictionary, Encyclopedia and much more, URL: <http://www.answers.com>
- [6] Google, URL: <http://www.google.co.in>
- [7] Project Management URL: <http://www.startwright.com/project.htm>