**ABSTRACT**

Airline Reservation System is a computerized system used to store and retrieve information and conduct transactions related to air travel. This project is aimed at developing an Airline Reservation System (ARS)for customers. 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.

There are three categories of people who would access the system is Customer, Airline-Executive and Administrator. Each one of them would have some exclusive privileges. User can search for a particular flight, reserve a flight ticket and also update or cancel his reservation. Airline-executive alone will be able to view flight-occupancy and only the Administrator has the right to view, add, cancel and update the flight details.

The internet has become a major resource for people looking for making reservations online without the hassle of meeting travel agents. Our project intends to serve these purposes. It intends to check all the available airline databases and return a string of results, which can help them in their travel plans.

This system is used to reduce the manual errors involved in the airline reservation process and make it convenient for the customer to book the flights as when they require such that they can utilize this system to make reservation, modify reservation or cancel particular reservation.

**Software Requirements:**

* Intel Pentium 90 or higher (P166 recommended)
* Microsoft Windows 95, 98, or NT 4.0, 2k, XP, Windows 7
* Memory: 32MB of RAM (64MB or more recommended)
* Internet Explorer 6.0 or higher
* Oracle 9i client and access to oracle 9i server
* JDK 8
* Eclipse Luna
* J Unit 4.0
* Log4j

**Technology used:**

* + - Business Logic Components and Services *:-* 
      1. Java Beans
      2. Java component classes
    - Databases:- Oracle 9i

**Language Used:**

* + - Java :-

It is a set of computer software and specifications developed by Sun Micro Systems, which was later acquired by the Oracle Corporation that provides a system for developing application software and deploying it in a cross platform computing environment. Java applets, which are less common than standalone Java applications, run in secure environment.

**Software Used:**

* Eclipse Luna:-

Eclipse Luna includes official support for Java 8 in the Java development

tools, Plug-in Development Tools, Object Teams, Eclipse Communication Framework, Maven integration, Web Tools Platform, and Memory Analyzer.

* J Unit 4.0:-

J Unit is a unit testing framework for Java.  It introduces more flexible initialization and cleanup, timeouts, and parameterized test cases.

* Log4j:-

Log 4j is a reliable, fast and flexible logging framework (APIs) written in Java, which is distributed under the Apache Software License. Log 4j is a popular logging package written in Java. Log 4j has been ported to the C, C++, C#, Perl, Python, Ruby, and Eiffel languages.