User Manual
Airline Reservation System

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1. INTRODUCTION
The User Manual explains us the step by step procedure to set up and use the Airline Reservation System web application.

2. INSTALLATION AND SETUP
This section describes the required software and hardware for the Airline Reservation System project.

2.1 REQUIRED HARDWARE
- A Microsoft SQL Database Server
  The Server should be equipped with a processor clock speed of over 1.5 GHz and a memory of over 512 MB.
- An IIS web-server
  The server should be equipped with a processor speed of over 1.5 GHz and a memory of over 512 MB.

2.2 REQUIRED SOFTWARE
The required software for the Airline Reservation System project would be as follows:
- **Operating System**: Microsoft Windows XP Professional
- **Internet Information Server (IIS)**: The IIS Web Server is included in the Windows XP Professional installation CD. Since it is not automatically installed along with the XP Professional Installation, it has to be installed.
- **.NET Framework 1.1 SDK**: It has been installed with the help of an installation CD provided by the CIS department at Kansas State University.
- **Microsoft Visual Studio .NET 2003**: It has been downloaded from the MSDNAA account provided by the CIS department at Kansas State University.
- **Microsoft Internet Explorer 5.0 or higher (or) Mozilla Firefox for clients**
- **Microsoft SQL server 2000**, which includes the SQL Query Analyzer and the Enterprise Manager. It can be downloaded from the following website:
2.3 REQUIRED NETWORK CONFIGURATION
A broadband connection with 10Mbps and above connection is needed to provide fast linkage to the server, thus providing faster service to the user/customer.

2.4 SOFTWARE SET-UP
The Windows XP Professional Operating System is installed in the D: / drive of the laptop.

- Unpack the software to the World Wide Web root of the IIS Server. (Generally it is the “C:\inetpub\wwwroot” directory. But in this case, since I have the XP Professional Operating System installed on the D: \ drive it is the “D:\inetpub\wwwroot”).
- Open the “Web.config” file and change the values of the < add name> property according to your connection configurations.
- Open the SQL server 2000
- Create a database and label it as KansasAir_DB
- Open the SQL Query Analyzer
- Paste the contents of the KansasAir SQL files
- Select the name of the database as Kansas Air_DB
- Select F5 and all the tables will then be populated and formed.
- Open the Internet Information Services
- Go to the Start -> Control Panel -> Performance and Maintenance as shown in the screen shot bellow:
• Then select the administrative tools option and then select the Internet Information Services as shown in the figure below:

Fig: IIS

• Now choose the option Web Sites
• Then right click on the Default Web Site option
• Select the New -> Virtual Directory Option as shown in the screenshot below:

Fig: Creating a new Virtual Directory
• Now click on the Next Button which will then open the Virtual Directory Creating Wizard.
• Click the Next Button

**Fig: Virtual Directory Creation Wizard**

![Virtual Directory Creation Wizard]

• Enter the Alias Name as Kansas Air and then click the Next Button

**Fig: Virtual Directory Alias**

![Virtual Directory Alias]
• Now Browse the directory and select the folder where you have unpacked the software and then click on the Next Button.

• Now again click the Next Button

• Then the below screen shot appears
Now click the Finish Button. The following screen shot will appear

![Virtual Directory Creation Wizard](image)

Now after this click on the Kansas Air folder and then select the “Home.aspx”
Right click on “Home.aspx” and then select the Browse option.
You should then be able to see the home page of the Airline Reservation System website as follows:

**Fig: Home page of the Airline Reservation System**
Fig: Home page of Airline Reservation System website

The customer of the Airline Reservation System website will then be able to logon to the system, to start using the features of the website. If the customer of the Airline Reservation System is a new user and does not have an account with the website, he can log on to the system only after registering with the web-site.

3. AIRLINE RESERVATION SYSTEM USAGE FOR CUSTOMERS
3.1 REGISTER FEATURE

After the user views the home page of the Airline Reservation System website, he can begin to browse the links available on the home page of the application. The main purpose of the Register feature is to help the customer of the website to create a login and password, which he will later use to log on to the system. The Register page will appear to the customer once he clicks the New User button on the home page of the application. The screen shot gives a description of the above explanation:

Fig: New User button on Home page of the application

![New User button on Home page of the application](image.png)
Once the user clicks the new user button, the Register page appears where the user can enter details into the system. The Registration page for the user would be as follows:

![Customer Registration Page](image)

**Fig: Customer registration page**

On this page, if the user does not enter the correct details into the data fields of the registration page, then the system prompts an error message to the user asking him to enter the correct format of data into the fields.

Once all the details have been entered into the system by the user, the customer then clicks the submit button on the registration page. All the details are then accepted and verified by the system and then the user is redirected to the home page for the customer, where he can then search and book the various flights, packages and hotels available to him.

The home page for the user after he logs onto the system would be as follows:
Fig: customer home page – Booking.aspx

From this page, the user can either go back to the home page of the Airline Reservation System website, or he can search and book flights, packages or hotels or logout of the application.

3.2 FLIGHT SEARCH AND BOOKING

The main feature of this part of the application is to enable the user to search and book for the flights available to him through the website. When the user clicks the flight booking link available to him on the Booking.aspx page, the user would be redirected to the FlightSearch.aspx page where the user would be able to see the list of available flights. The screen shot of the FlightSearch.aspx page would be as follows:
The user can then search for a specific flight which has a choice of his source and destination. From the drop down list available to the user, the user can select a place of his choice from the source and a place of choice from the destination drop down box and then hit the search button on the page. If there is a flight in the database with the above choice of the customer, he can then view the results on the following page:

Then by filling in the required details on the page, like the data of journey, number of tickets and the flight number, he can then click the make booking button on the page and then the user would be directed to a confirmation page, which is as follows:
3.3 HOTEL SEARCH AND BOOKING

The main feature of this part of the application is to enable the user to search and book for the hotels available to the customer through the website. When the user clicks the HotelBooking link available to him on the Booking.aspx page, the user would be redirected to the HotelSearch.aspx page where the user would be able to see the list of available hotels. The screen shot of the HotelSearch.aspx page would be as follows:

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**Fig: Confirmation page for flight booking**

The customers can logout from the system after this process by clicking the logout button on the FlightBooking.aspx page shown above.
The user can then search for a specific hotel of his choice. From the drop down list available to the user, the user can select a place of his choice and then hit the search button on the page. If there is a hotel in the database with the choice of the customer, he can then view the results on the following page:

**Fig: Figure showing the screenshots of the search results**
Then by filling in the required details on the page, like the check in date, number of persons, number of days etc, he can then click the make booking button on the page and then the user would be directed to a confirmation page, which is as follows:

**Fig: Confirmation page for Hotel booking**

The customers can logout from the system after this process by clicking the logout button on the HotelBooking.aspx page shown above.
3.4 PACKAGE SEARCH AND BOOKING

The main feature of this part of the application is to enable the user to search and book for the packages available to the customer through the website. When the user clicks the PackageBooking link available to him on the Booking.aspx page, the user would be redirected to the PackageSearch.aspx page where the user would be able to see the list of available packages. The screen shot of the PackageSearch.aspx page would be as follows:

Fig: Screenshot explaining the list of packages available to the customer.

The user can then search for a specific package of his choice. From the drop down list available to the user, the user can select a place of his choice and then hit the search button on the page. If there is a package in the database with the choice of the customer, he can then view the results on the following page:
Then by filling in the required details on the page, like the date of journey, number of persons, etc, he can then click the make booking button on the page and then the user would be directed to a confirmation page, which is as follows:

**Fig: Package Confirmation Page**

The customers can logout from the system after this process by clicking the logout button on the PackageBooking.aspx page shown above.