**Everest Engineering College**

**(AFFILIATED TO POKHARA UNIVERISTY)**

**Sanepa-2, Lalitpur**



**A Minor Proposal**

**On**

**“AIRLINES RESERVATION SYSTEM”**

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**1. Objectives:**

Airlines reservation system (ARS) are the systems that allows the airlines to sell their seats according to their requirements. Commonly, it contains the information on the schedules, fares and contains the database of reservations (name of the passengers).so, ARS’s are part of passenger service system (PSS), which helps the airline to establish a direct communication with the customers (Passengers). ARS eventually evolved into Computer Reservation System (CRS).CRS is used to make a reservation of particular airlines which interface with a Global Distribution System (GDS) which helps travel agencies and other distribution channels in making reservations for most major airlines in a single system.

**2. Introduction:**

The web based “airlines reservation system” project is an attempt to generalize the basic concepts of airlines reservation system. The system enables the user to search for flights for two travel cities on a specific date based on the details, reservation of flight and cancellation of the reservation. The system allows the passenger to search for the flights that are available between the two travel cities, namely the “departure city” and the “Arrival city” for a particular departure and arrival dates. The system displays all the flight details such as flight no, Name, Fare and duration of journey etc.

After searching, the system display the list of available flights and allows customer to choose a particular flight. The system check’s the availability of seats on the flight, if the seats are available then the system allows the passenger to book a seat, otherwise it ask the user to choose another flight.

To book a flight the system asks the customer to enter his details such as name, address, city, state, credit card number and contact number. Then it checks for the validity of card and book the flight and update the airlines database and user database.

**3. Problem statement:**

After the thoroughly researching and using the system we find many loop holes and error in the system we brought this idea of creating an improved ARS. Some of the problem faced by the existing system include:

1. Inability of passengers to select seats for their chosen flights from the existing reservation system. This has ultimately resulted in time being wasted at the check-in counter in assigning seats to passenger before they are allowed to board the airplane.

2. No option of passenger printing their boarding pass from the existing system.

3. No notification of passengers in the event of flight cancellation or delays.

4. No access to aircraft maintenance report to ease passengers fears as regards to air travel and its disasters.

**4. Aims & Objectives:**

\*To study the existing Airline Reservation System’s challenges and to infer possible solutions.

\*To manage the details of airlines ticket, flights, tickets, customers, booking counters, vendors.

**5. Implementation Plan:**

For this project :Airlines Reservation System: we are going to use core programming language’s HTML, CSS, JavaScript, PHP, MYSQL and Java(if necessary). We are going to use this language as to implement we had learned from our subject.

We have divided the development of fronted frameworks on the basis of user interface with the website (how user will use our site) and this is how we will design our fronted:

Step 1: User Login/ Admin Login

Step 2: Specify Search address, date of flight.

Step 3: Search for route, schedule and availability

Step4: Choose Class

Step 6: Payment method

And in the backend we are using JavaScript and MySQL.

**6. References:**

Abisoye Blessing O. documentation,

Ballard, G (2000).

Chua, D and Shen, L. J. (2001).