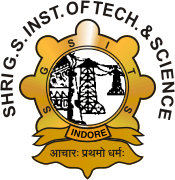
**FLIGHT RESERVATION**

**SYSTEM**



A project report submitted to

Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal

towards partial fulfillment of

the degree of

**MASTER OF COMPUTER APPLICATION**

**{2nd year}**

**Submitted by:**

{Ms.SHRUTI HADKEY }

**Guided By:**

Mr. UPENDRA SINGH

*Department of Computer*

*Technology & Applications*

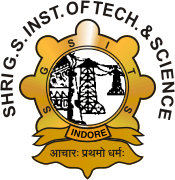
Department of Computer Technology & Applications

**SHRI G.S. INSTITUTE OF TECHNOLOGY AND SCIENCE**

**INDORE (M.P.)**

**SHRI G.S. INSTITUTE OF TECHNOLOGY AND SCIENCE**

**INDORE (M.P.)**



**Recommendation**

The project report entitled **“*FLIGHT RESERVATION SYSTEM*”** submitted by **SHRUTI HADKEY** students of MCA second year in the session 2020-21, towards partial fulfillment of the degree of **Master of Computer Applications** of Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal, is a satisfactory account of {her} work and is recommended for the award of degree**.**

**{Upendra Singh }**

Project Guide

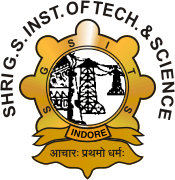
Department of Comp. Tech. & Application

**Dean(Academics)**

**S.G.S.I.T.S.,Indore**

**SHRI G.S. INSTITUTE OF TECHNOLOGY AND SCIENCE**

**INDORE (M.P.)**



**Certificate**

The project report entitled **“*FLIGHT RESERVATION SYSTEM*”** submitted by **SHRUTI HADKEY** students of MCA Second year in the session 2020-21, towards partial fulfilment of the degree of **Master of Computer Applications** of Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, is a satisfactory account of their work and is approved for award of the degree.

**Internal Examiner**

Mr. Upendra Singh

**Date**

**21/12/2020**

**Acknowledgement**

We are heartily pleased to acknowledge all those people who have helped us in the successful completion of this project. With great pleasure we express our heartfelt gratitude to our esteemed guide, **Mr. Upendra Singh** Lecturer Department of Computer Technology & Application, S.G.S.I.T.S. Indore. His persistent encouragement, perpetual motivation, everlasting patience and valuable technical inputs in discussions have enabled the successful completion of this project. His invaluable help, advice and constant encouragement helped us a lot and provide impetus to the progress of the project. We extend our profound indebtedness to the Head of the department **Ms. Sunita Varma,** the word loose their worth for her invaluable guidance, continuous encouragement and cooperation in every respect.

We sincerely wish to express our gratitude to all the members of staff of M.C.A.who have extended their cooperation at all times and have contributed in their own way in developing the project. Successful completion of a project is not an individual effort. It is an outcome of the cumulative effort of a number of persons, each having his own importance to the objective. We are thankful to our parents for being a constant source of encouragement in all our endeavors. Indeed it is their support that helps us through the ups and downs of life. The support and suggestion of our friends are worth appreciation and thankfulness. *A blend of gratitude, pleasure, great satisfaction and indebtedness is what, we feel to convey to all those who have directly or indirectly contributed to the successful completion of our project work.*

**{SHRUTI HADKEY }**

**ABSTRACT**

Flight 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.

The main purpose of this software is to reduce the manual errors involved in the airline reservation process and make it convenient for the customers to book the flights as when they require such that they can utilize this

software to make reservations, modify reservations or cancel a particular reservation.

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**Chapter 1**

**Introduction**

* **Objective:**
* Develop a Computerized Flight Reservation and Ticketing System that will be able to solve the issues in the existing system regarding to the following categories:  
            A. Accuracy  
            B. Usability  
            C. Efficiency  
            D. Effectiveness  
            E. Speed  
            F. User-friendliness
* **Scope**

The name of the software is “FLIGHT RESERVATION SYSTEM”. This software provides options for viewing different flights available with different timings for a particular date and provides customers with the facility to book a ticket, modify or cancel a particular reservation but it does not provide the customers with details of cost of the ticket and it does not allow the customer to modify a particular part of his reservation and he/she can modify all his details.

{ FLIGHT RESERVATION SYSTEM } 1

**Chapter 2**

**Literature Survey/ Conceptual Framework**

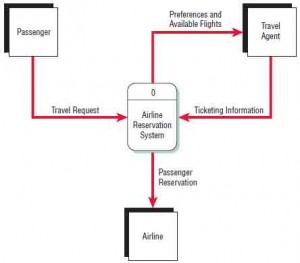
By convergence of the world into a global village, travelling several thousand miles has become so common for not only business but also for pleasure purposes. Due to the fast paced nature of the world today, air travel is considered as one of the first choice among several modes of travels to save time. Modern air travel industry has advanced to a level, where fleets and services are shared among the system of systems being run by independent vendors or

service providers. This has resulted in tough competition among the airlines in the world to attract more and more passengers by offering discounts in conjunction with a great deal of luxuries to the clients. Keeping in mind the fact that people might not have enough time out of their busy routine to go and visit a travel agent in order to make a reservation, most airlines have offered their services over the World Wide Web. By having all companies their flights and fleets data available to the end users over the web, it is now possible for the third party web agent websites to make use of services and data shared by different airlines and replicate the role of a travel agent sitting in the market.

**Chapter 3**

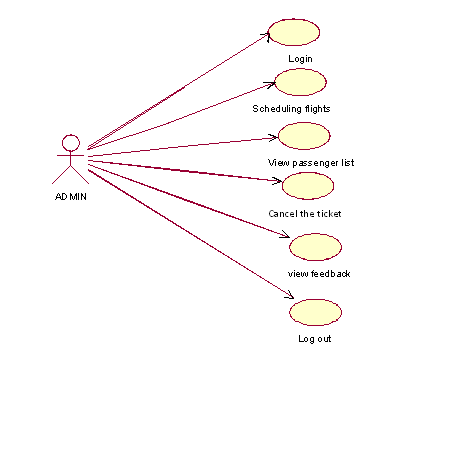
**Analysis**

**3.4.1 Data Flow Diagram**



**DATA FLOW DIAGRAM**

**Use case digram:**



**3.2 Feasibility Study**

Technical Feasibility:-the hardware and software which i used in my project easily available in every configuration of the system.

Economical Feasibility:- This project is being prepared by us for learning purpose.

**Chapter 4**

**4.1.1 Hardware Requirements:**

Processor,monitor.

keyboard,mouse.

**4.1.2 Software Requirements:**

Operating system

Browsers

{FLIGHT RESERVATION SYSTEM }

2

**Appendix A**

**Screen Shots**

import java.util.Scanner;

import static java.lang.System.\*;

public class FlightReservation

{

public static void main(String[] args)

{

boolean[] arrSeats = new boolean[10];

Scanner sc = new Scanner(in);

String section = null;

// SETTERS

// Assigns first empty seat in relevant section

boolean assignSeat(String(section));

{

if (section == "first")

{

if (getFreeSeats(section) > 0)

{

for (int i = 0; i < 5; i++)

{

if (arrSeats[i] == false)

{

arrSeats[i] = true;

printBoardingPass(i);

return true;

}

}

}

}

else if (section == "economy")

{

if (getFreeSeats(section) > 0)

{

for (int i = 5; i < arrSeats.length; i++)

{

if (arrSeats[i] == false)

{

arrSeats[i] = true;

printBoardingPass(i);

return true;

}

}

}

// seats in chosen section full

// check if ok to assign to other section

System.out.printf("All seats in section \"%s\" are booked.\n", section);

System.out.printf("Would you like to be moved to section \"%s\" (y/n)? ",

(section == "first") ? "economy" : "first");

if (sc.next().charAt(0) == 'y')

{

System.out.print(assignSeat((section == "first") ? "economy" : "first"));

}

else

System.out.println("\nNext flight leaves in 3 hours.\n");

return false;

}

// GETTERS

// returns number of free seats in each section

//private static boolean getFreeSeats (String (section))

}

int total = 0;

if (section == "first")

{

// first class 1-5 (array 0-4)

for (int i = 0; i < 5; i++)

{

if (arrSeats[i] == false)

total += 1;

}

}

else if (section == "economy")

{

// economy 6-10 (array 5-9)

for (int i = 5; i < arrSeats.length; i++)

{

if (arrSeats[i] == false)

total += 1;

}

}

return total;

}

// check whether or not all seats are booked

public boolean seatsAvailable()

{

// if empty seat found return true

boolean[] arrSeats = new boolean[0];

for (boolean seat : arrSeats)

if (seat == false)

return true;

// if none seat found plane is full

return false;

}

public void printGreeting()

{

System.out.println("\nWelcome to Fly-High Airlines booking system.\n");

}

// print the menu with remaining number of seats for each section

public void printMenu()

{

System.out.printf("1. Economy class %s\n",

(getFreeSeats("economy") > 0) ?

"(" + Integer.toString(getFreeSeats("economy")) + ")" : "(full)");

System.out.printf("2. First class %s\n",

(getFreeSeats("first") > 0 ?

"(" + Integer.toString(getFreeSeats("first")) + ")" : "(full)"));

System.out.print(" > ");

}

private static int getFreeSeats(String economy)

{

String section = null;

int total = 0;

// boolean arrSeats;

if (section == "first")

{

//boolean arrSeats;

// first class 1-5 (array 0-4)

for (int i = 0; i < 5; i++)

{

if (arrSeats[i] == false)

total += 1;

}

}

else if (section == "economy")

{

// economy 6-10 (array 5-9)

for (int i = 5; i < arrSeats.length; i++)

{

if (arrSeats[i] == false)

total += 1;

}

}

return total;

}

// prints the boarding pass

private static void printBoardingPass(int seat)

{

out.println("\nBoarding pass for Fly-High Airlines.");

out.printf("\nSECTION: %s\nSEAT NUMBER: %d\n\n\n",

(seat < 5) ? "first" : "economy", seat + 1);

}

}

**References:**

Google: w3schools,javatpoint