PRILIMINARY PROJECT REPORT ON

AIRLINE RESERVATION SYSTEM USING GRAPH DATABASE

Submitted by

Ajinkya Ramesh Algonda Supriya Prasanna Bagade Shital Parashram Jadhav Rewati Rajesh Sonar

in partial fulfilment for the award of the degree of Bachelor of Engineering of Savitribai Phule Pune University in

INFORMATION TECHNOLOGY



MIT College of Engineering 2017-18

PRELIMINARY PROJECT REPORT ON

AIRLINE RESERVATION SYSTEM USING GRAPH DATABASE

Submitted By

Ajinkya Ramesh Algonda Supriya Prasanna Bagade Shital Parashram Jadhav Rewati Rajesh Sonar

Guided by

Prof. Aparna Kamble.

DEPARTMENT OF INFORMATION TECHNOLOGY MIT COLLEGE OF ENGINEERING PUNE – 411038

SAVITRIBAI PHULE PUNE UNIVERSITY 2017-2018



INFORMATION TECHNOLOGY

Certificate

This is to certify that,

B120388508:- Ajinkya Ramesh Algonda

B120388528:- Supriya Prasanna Bagade

B120388595:- Shital Parashram Jadhav

B120388692:- Rewati Rajesh Sonar

have successfully completed this project report entitled "AIRLINE RESERVATION SYSTEM USING GRAPH DATABASE", under my guidance in partial fulfilment of the requirements for the degree of Bachelor of Engineering in Department of Information Technology of Savitribai Phule Pune University, Pune during the academic year 2017-18.

Date: -

Place: -

Prof. Aparna Kamble Guide Prof. Dr. A. S. Hiwale Head of Department

Acknowledgement

We take this opportunity to thank our project guide Prof. Aparna Kamble and Head of the Department Prof. Dr. A. S. Hiwale for their valuable guidance and for providing all the necessary facilities, which were indispensable in the completion of this project report. We are thankful to all the staff members of the Department of Information Technology of MIT College of Engineering, Pune for their valuable time, support, comments, suggestions and persuasion. We would like to thank the institute for providing the required facilities, Internet access and important books. We are also thankful to Mr. Koustubh Bagade Ms in computer science University of Southern California Los Angeles CA for his valuable guidance.

Name of Students

Ajinkya Ramesh Algonda Supriya Prasanna Bagade Shital Parashram Jadhav Rewati Rajesh Sonar

ABSTRACT

One of the most common modes of travel is travelling by air. Customers who wish to travel is travelling by air nowadays have a wide variety of airlines and a range of timings to choose from. Nowadays competition is so fierce between airlines that there are lot of discounts and a lot of discounts and a lot of luxuries given to customers that will give an edge to that particular airline.

The World Wide Web has become tremendously popular over the last few years and currently most of the airlines have made provision for online reservation of their flights. 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.

The aim of this project is to create an airline reservation system where a traveller can request all flight information as per their journey dates. They can get information regarding time, cost, etc all at the same time and place. When the customer calls the counter assistant for his/her travel needs, the counter assistant will enter the customer's details (flight requirements) in the system. The system displays all the available airlines, schedules and prices. This system would help the airline to better serve its customers by catering to their needs. The site would use a database to hold this information as well as the latest pricing and availability information for their airlines.

CONTENTS

Chapter no.	Chapter name	Page no.
1.	Introduction	1
1.1	Objective	1
1.2	Need	1
1.3	Basic concept	2
1.4	Application	2
2	Literature Survey	4
3	Problem Statement	9
	What is to be developed	9
4	Constraints and requirements	11
4.1	Software and Hardware Specifications	11
5	Architecture and Design	12
5.1	Data Flow Diagrams	12
5.2	Use Case Diagram	12
5.3	Class Diagram	13
5.4	Activity Diagram	14
5.5	Sequence Diagram	15
6	Implementation	16
6.1	Implementation Procedure of the idea	16
6.2	Technology Used	16
7	Project Planning and scheduling	19
8	Testing	20
8.1	Unit Testing	20
8.2	Integration Testing	20
8.3	System Testing	21
8.4	Fictional Testing	21
8.5	Test Cases	22
9	Product description	23
9.1	Interface description for user	23
10	Scope and future enhancement	24
10.1	Scope	24
10.2	Future enhancement	24
11	Results	25
12	Conclusion	26
13	References	27

LIST OF TABLES

Sr. No.	Table Name	Page no.
1.	Software and hardware specification	11
2.	Project planning and scheduling	19
3.	Unit test case data	22

LIST OF FIGURES

Sr. No.	Figure Name	Page no.
1.	Data flow diagram	12
2.	Use case diagram	12
3.	Class diagram	13
4.	Activity diagram	14
5.	Sequence diagram	15