Aviation Safety System

Project Synopsis Submitted

to

MANIPAL ACADEMY OF HIGHER EDUCATION

For Partial Fulfillment of the Requirement for the

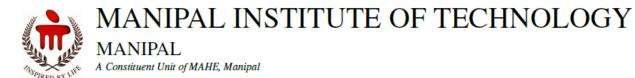*Award of the Degree*

Of

Bachelor of Technology

in

Computer and Communication Engineering

by

Anushri Viraj Sakhardande (Reg. No. 220953138)
Sindhu (Reg. No. 220953002)
Uppaluri Jahnavi (Reg. No. 220953242)

Under the guidance of

Mr. Akshay K C (Lab Faculty 1)   Mrs. Swathi B P (Lab faculty 2)
Assistant Professor - Senior Scale   Assistant Professor – Senior Scale
Department of I&CT   Department of I&CT
Manipal Institute of Technology   Manipal Institute of Technology
Manipal, Karnataka, India   Manipal, Karnataka, India

MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
A Constituent Unit of MAHE, Manipal
INSPIRED BY LIFE

February 2024

Objective:

The objective of the "Aviation Safety System" is to provide an assurance of safety to passengers. It will maintain the records of any flight crashes or malfunctions that have occurred. It will have an interface to help passengers log their desired destination and provide a report on the safety of their travel. The system will help analyse the conditions around why accidents occur and help passengers make wiser choices about their travel.

Scope:

This project helps infer safety conditions of travel and maintains the records of the conditions of aircraft accidents and provides a thorough analysis of the weather patterns and other factors. The software will be able to handle the data efficiently.

Project Description:

The software to be produced is an Aviation Safety System. There will be two types of users accessing the system: the administrator and the passenger. The passenger must first register themselves into the system. The login time will be noted, and the last login will be displayed every time. Passenger can view the different entries in the database and search them according to location, aircraft type, weather conditions, and other parameters. The passengers can log the current flight data and receive a flight safety rating at that time. The system will compare the current flight conditions to past flights and determine the safe parameters based on predictive analysis of the previous data. The administrator can add new information, delete incorrect entries, and update the database. There will be graphs displaying the stats of the air crashes, which all the users will be able to access.

Hardware Requirements:

Processor: Intel dual core or above
Processor Speed: 1.0GHZ or above
RAM: 1 GB RAM or above
Hard Disk: 20 GB hard disk or above

Software Requirements:

Language: C#
Database: Oracle

Submitted by:

Name	Registration number	Roll Number	Semester & Branch	Section
Uppaluri Jahnavi	220953242	22	IV (CCE)	A
Sindhu	220953002	2	IV (CCE)	A
Anushri Viraj Sakhardande	220953138	16	IV (CCE)	A