

**Micro Project Proposal (OOP-22316)**

**Department:-INFORMATION TECHNOLOGY**

**Title : Airlines Management System Using Inheritance**

**1.0 Aims :-** A program on Airline Management System using Inheritance.

**Benefits:-**

- Develop a C++ program to accept and display various entities like flights , passengers , and employees .
- This project is beneficial as it can store and maintain the handling different types of flights or airline-related entities.
- To develop a program to demonstrate a Airline Management System using C++.

**2.0 Course Outcomes Addressed:-**

CI301.1	<b>Convert<sup>2</sup></b> C Programs into C++ programs to solve problems.
CI301.2	<b>Implement<sup>3</sup></b> C++ Programs using classes and objects.
CI301.3	<b>Implement<sup>3</sup></b> concept of inheritance in C++ program.
CI301.4	<b>Use<sup>3</sup></b> Polymorphism in C++ program.
CI301.5	<b>Develop<sup>3</sup></b> C++ Programs to perform file operations.

**3.0 Proposed Methodology :- ( Procedure in brief that will be followed to do the micro-project in about 100 to 200 words )**

**Project Definition:** Clearly define the scope and objectives of the Airline Management System, focusing on user-friendly Environment.

**Requirements Gathering:** Identify and document functional and non-functional requirements, including seat availability, booking , cancellation, and user authentication.

**Design Phase:** Create a detailed plan covering database schema, user interface, and software architecture that aligns with requirements.

**Implementation:** Write code for the system, including user registration, booking, seat allocation, and relevant modules.

**Testing:** Conduct rigorous testing to validate functionality for various scenarios and ensure database integrity.

**Documentation:** Prepare comprehensive user manuals and technical documentation.

**User Training:** Train users or staff on system features and functionality.

**Deployment:** Deploy the system on chosen infrastructure, making it accessible to users for Airline System .

**Maintenance and Support:** Establish an ongoing plan for updates and support.

**Project Completion:** Ensure all objectives are totally organized and the Airline Management System is operational and perfect.

#### 4.0 Action Plan :

Sr. No.	Details of Activity	Planned start Date	Planned finish date	Name of response team Members
01	Group Formation and selection of project title	07/08/2023	12/08/2023	All Members
02	Information search using Internet	14/08/2023	26/08/2023	All Members
03	Prepare Micro project Proposal (Annexure-I)	28/08/2023	02/09/2023	All Members
04	Micro project checking	04/09/2023	09/09/2023	All Members
05	Report Generation	11/09/2023	23/09/2023	All Members
06	Report Submissions	02/10/2023	07/10/2023	All Members

#### 5.0 Resources required:- (major resources such raw material some machining facility , Software etc.)

Sr.No	Instrument/Object	Specifications	Quantity	Remark
01	Computer system	Intel i5 11 <sup>th</sup> Gen 8GB RAM 512GB SSD	1.	System
02	Software	TUTBO C++ or G++	1.	Compiler
03	Any other resources use	-	1.	

#### 6.0 Name of Team members with Roll Nos.

Roll.No.	Name of Team Members
48	Hande Vedant Machhindra
44	Gunjal Prathamesh Suresh
35	Ghodekar Suraj Gorakh
54	Jondhale Prathamesh Sunil

(Signature of Teachers)