



PARSHVANATH CHARITABLE TRUST'S

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Data Science

AIRLINE MANAGEMENT SYSTEM

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Introduction

This domestic Airline Management System was developed for the 7 domestic airlines to add flight details and retrieve information about previously added flights.

This system will help domestic airlines store flight data.

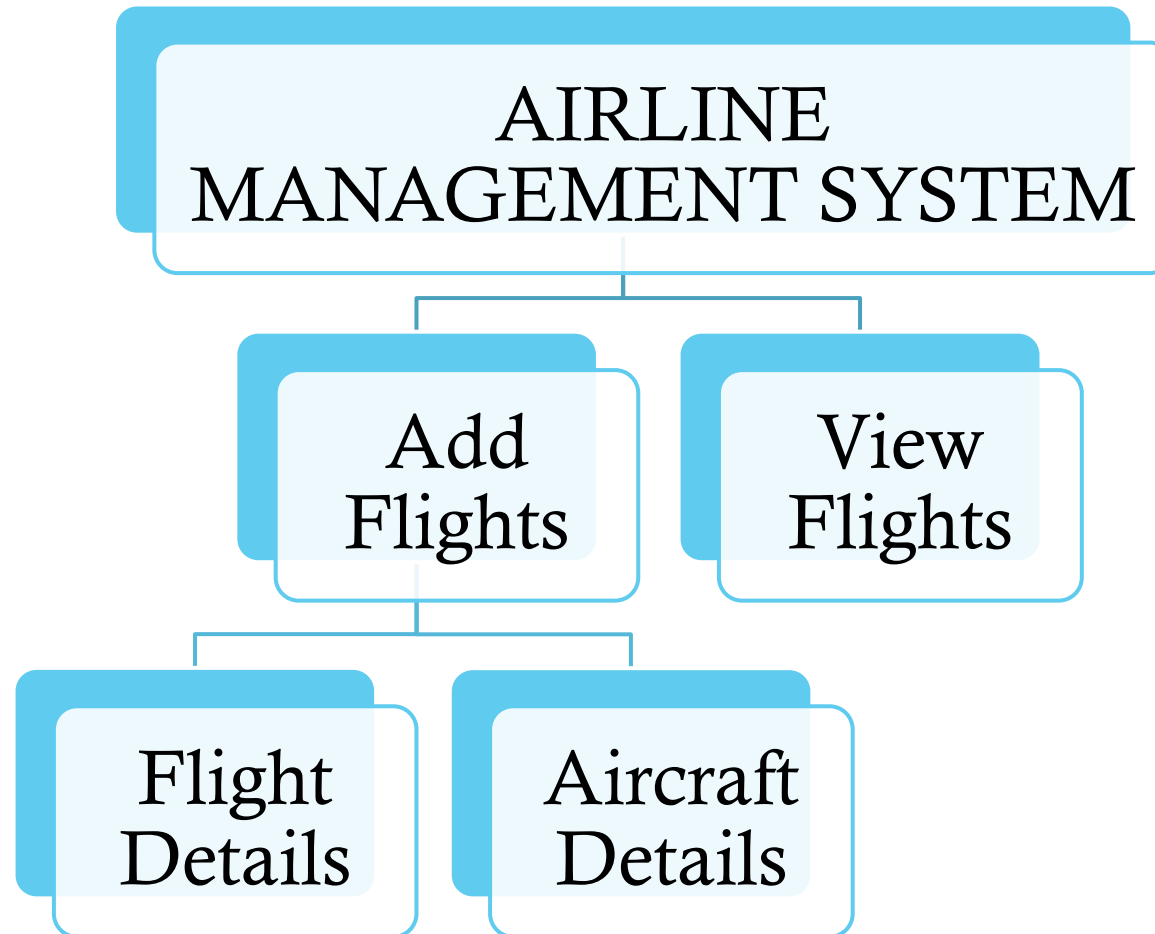
2. Objectives

1. To provide some amount of automation in airlines management.
2. To help airlines system in making their business more efficient.
3. To provide an efficient and reliable structure that can handle a large number of flight data.
4. To provide accurate information about the addition and modification of records.

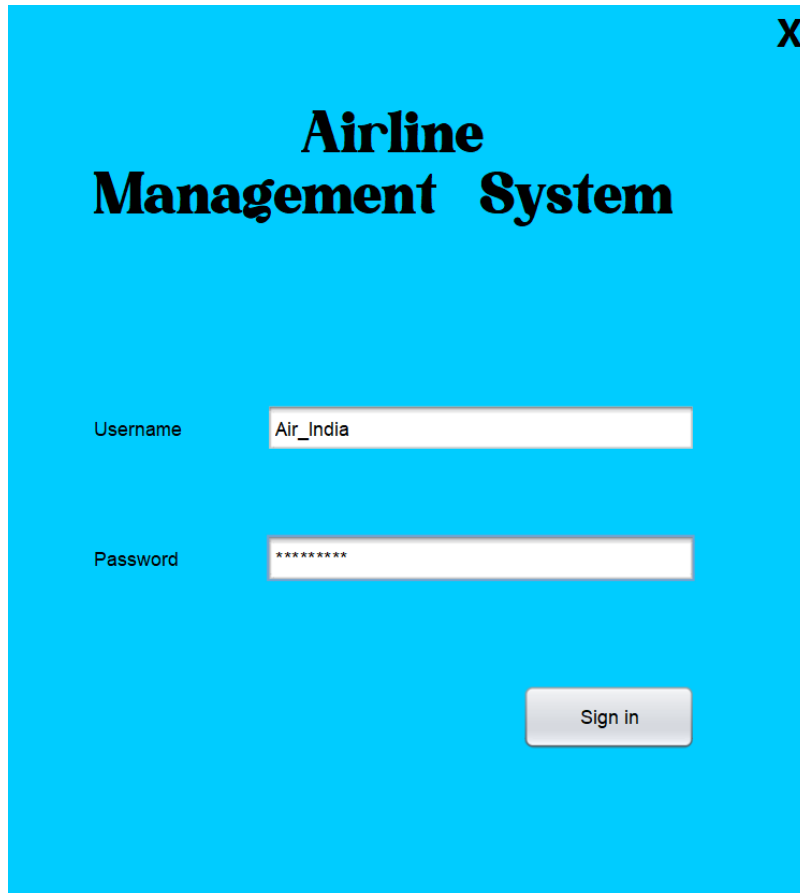
4. Features

1. Add flight information.
2. View stored flight data in a tabular format.

7. Block Diagram/ Flow diagram



5. Output of Project

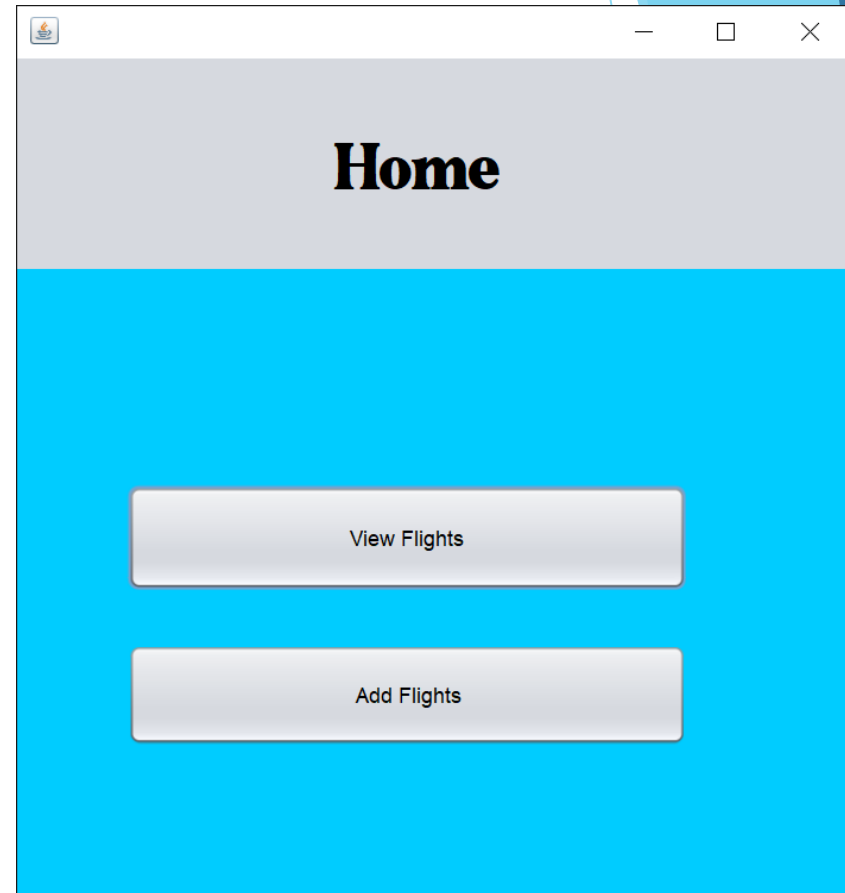


A screenshot of a web application titled "Airline Management System". The interface has a bright blue background. At the top center, the title is displayed in a large, bold, black serif font. Below the title, there are two input fields: "Username" and "Password". The "Username" field contains the text "Air_India". The "Password" field contains a series of asterisks. Below these fields is a single "Sign in" button with a light gray gradient and rounded corners. A small "X" icon is visible in the top right corner of the application window.

**Airline
Management System**

Username

Password



A screenshot of the "Home" page of the "Airline Management System". The interface has a bright blue background. At the top, there is a light gray header bar with the word "Home" in a large, bold, black serif font. Below the header, there are two large, light gray buttons with rounded corners and a subtle gradient. The top button is labeled "View Flights" and the bottom button is labeled "Add Flights". Both buttons have a slight shadow effect. The window has a standard title bar with a small icon on the left and minimize, maximize, and close buttons on the right.

Home

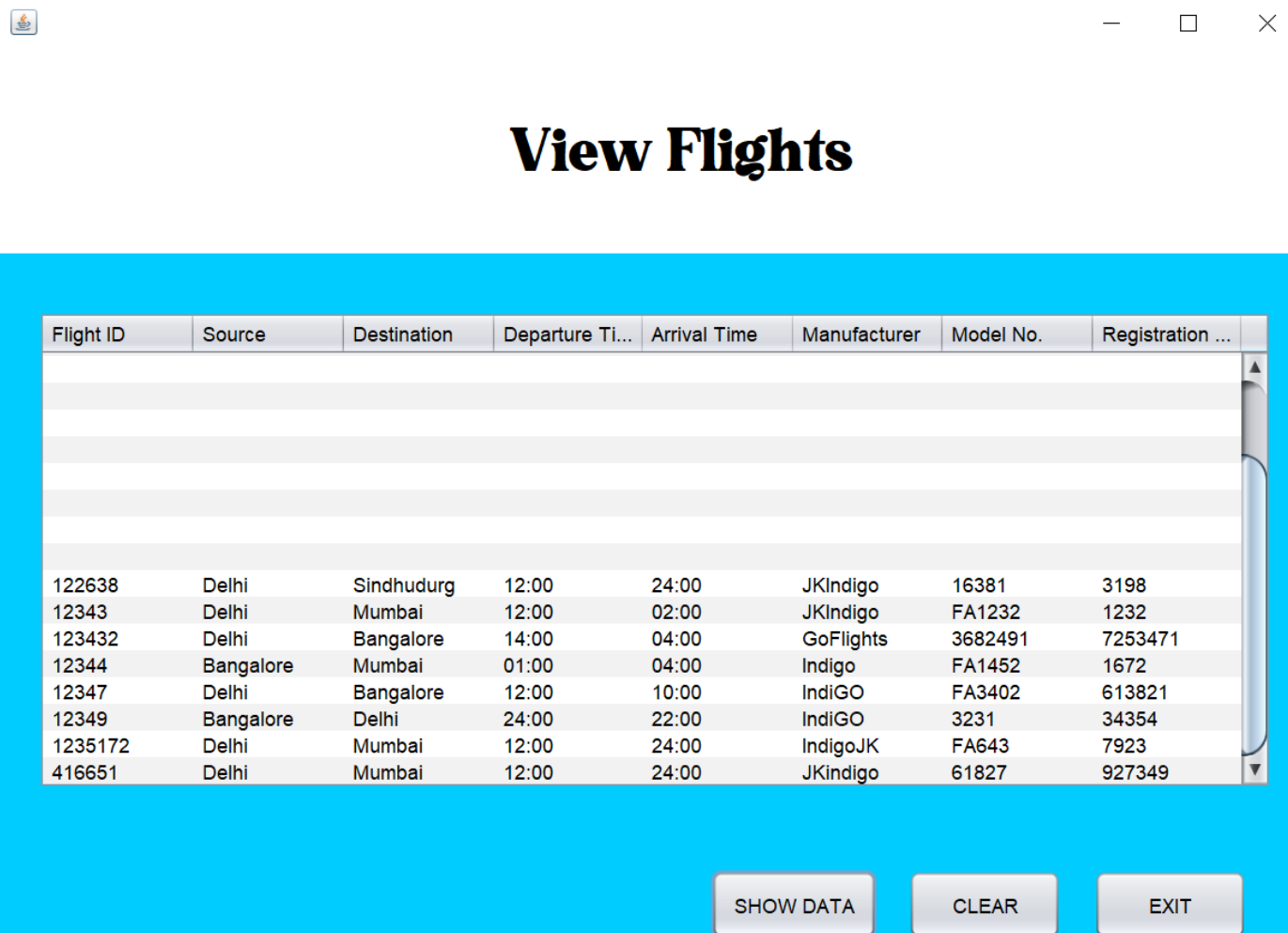
5. Output of Project

Add Flights

Flight details		Aircraft Details	
Airline Name	<input type="text" value="AirIndia"/>	Manufacturer	<input type="text" value="GoFlights"/>
Flight ID	<input type="text" value="123432"/>	Model No	<input type="text" value="3682491"/>
Source	<input type="text" value="Delhi"/>	Registration No.	<input type="text" value="7253471"/>
Destination	<input type="text" value="Bangalore"/>		
Departure Time	<input type="text" value="14:00"/>		
Arrival Time	<input type="text" value="04:00"/>		

ADD FLIGHT

5. Output of Project



The screenshot shows a Java Swing window titled "View Flights". The window has a light blue background. At the top, there is a title bar with standard window controls (minimize, maximize, close). Below the title bar, the text "View Flights" is centered in a large, bold, black font. The main content area contains a table with 8 columns: Flight ID, Source, Destination, Departure Time, Arrival Time, Manufacturer, Model No., and Registration No. The table has 10 rows, with the first 7 rows being empty and the last 3 rows containing flight data. Below the table, there are three buttons: "SHOW DATA", "CLEAR", and "EXIT".

Flight ID	Source	Destination	Departure Ti...	Arrival Time	Manufacturer	Model No.	Registration ...
122638	Delhi	Sindhudurg	12:00	24:00	JKIndigo	16381	3198
12343	Delhi	Mumbai	12:00	02:00	JKIndigo	FA1232	1232
123432	Delhi	Bangalore	14:00	04:00	GoFlights	3682491	7253471
12344	Bangalore	Mumbai	01:00	04:00	Indigo	FA1452	1672
12347	Delhi	Bangalore	12:00	10:00	IndiGO	FA3402	613821
12349	Bangalore	Delhi	24:00	22:00	IndiGO	3231	34354
1235172	Delhi	Mumbai	12:00	24:00	IndigoJK	FA643	7923
416651	Delhi	Mumbai	12:00	24:00	JKIndigo	61827	927349

SHOW DATA CLEAR EXIT

5. Output of Project

The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'SCHEMAS' tree with 'airline' selected. The central query editor contains the SQL statement `SELECT * FROM airline.flights;`. Below the editor, the 'Result Grid' shows a table of flight data. The bottom panel displays the 'Action Output' log.

Result Grid Data:

Flight_ID	Source1	Destination	Departure_Time	Arrival_Time	Manufacturer	Model_No	Registration_No	Airline
122638	Delhi	Sindhudurg	12:00	24:00	JKIndigo	16381	3198	Indigo
12343	Delhi	Mumbai	12:00	02:00	JKIndigo	FA1232	1232	
123432	Delhi	Bangalore	14:00	04:00	GoFlights	3682491	7253471	AirIndi
12344	Bangalore	Mumbai	01:00	04:00	Indigo	FA1452	1672	
12347	Delhi	Bangalore	12:00	10:00	IndIGO	FA3402	613821	
12349	Bangalore	Delhi	24:00	22:00	IndIGO	3231	34354	
1235172	Delhi	Mumbai	12:00	24:00	IndigoJK	FA643	7923	AirIndi
416651	Delhi	Mumbai	12:00	24:00	JKIndigo	61827	927349	AirIndi

Action Output Log:

#	Time	Action	Message	Duration / Fetch
✓ 10	08:54:57	SELECT * FROM airline.flights LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
✓ 11	10:32:55	SELECT * FROM airline.login LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
✓ 12	11:02:20	SELECT * FROM airline.flights LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec

5. Output of Project

The screenshot displays the MySQL Workbench interface for a local instance of MySQL 8.0. The 'Navigator' pane on the left shows the 'airline' database schema with tables 'flights' and 'login'. The 'Query' editor in the center contains the SQL statement: `SELECT * FROM airline.login;`. The 'Result Grid' pane below the query editor shows the results of the query, which are the contents of the 'login' table. The 'Output' pane at the bottom shows the execution log with three entries, each indicating a successful query execution with 7 rows returned.

airline

- Tables
 - flights
 - login
- Views
- Stored Procedures
- Functions

airline.login

Username	Password	Flight_Type	Business_Model
Air_India	airindia@1	Passenger Flight	Full Service Carrier
AirAsia_India	airasiaindia@6	Passenger Flight	Full Service Carrier
AirIndia_Express	airindiaexpress@5	Passenger Flight	Full Service Carrier
Go_First	gofirst@3	Special Services Flight	Charter Carrier
Indigo	indigo@4	Passenger Flight	Low Cost Carrier
SpiceJet	spicejet@7	Cargo Flight	Charter Service
Vistara	vistar@2	Passenger Flight	Low Cost Carrier

login

#	Time	Action	Message	Duration / Fetch
11	10:32:55	SELECT * FROM airline.login LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
12	11:02:20	SELECT * FROM airline.flights LIMIT 0, 1000	8 row(s) returned	0.000 sec / 0.000 sec
13	11:02:41	SELECT * FROM airline.login LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Thank You!