



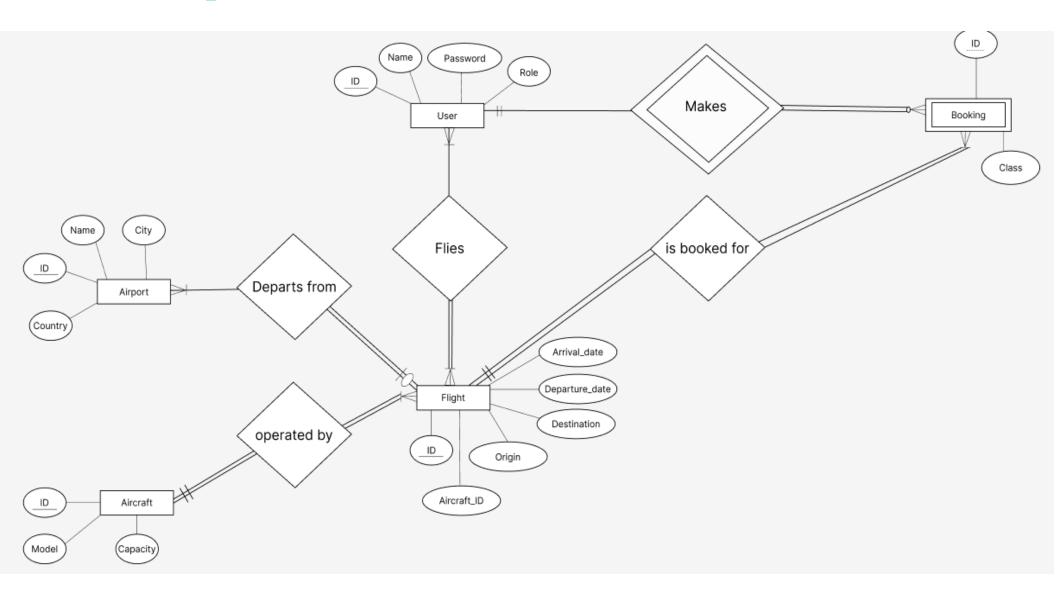
Cairo University Faculty of Computers and Artificial Intelligent

Database project

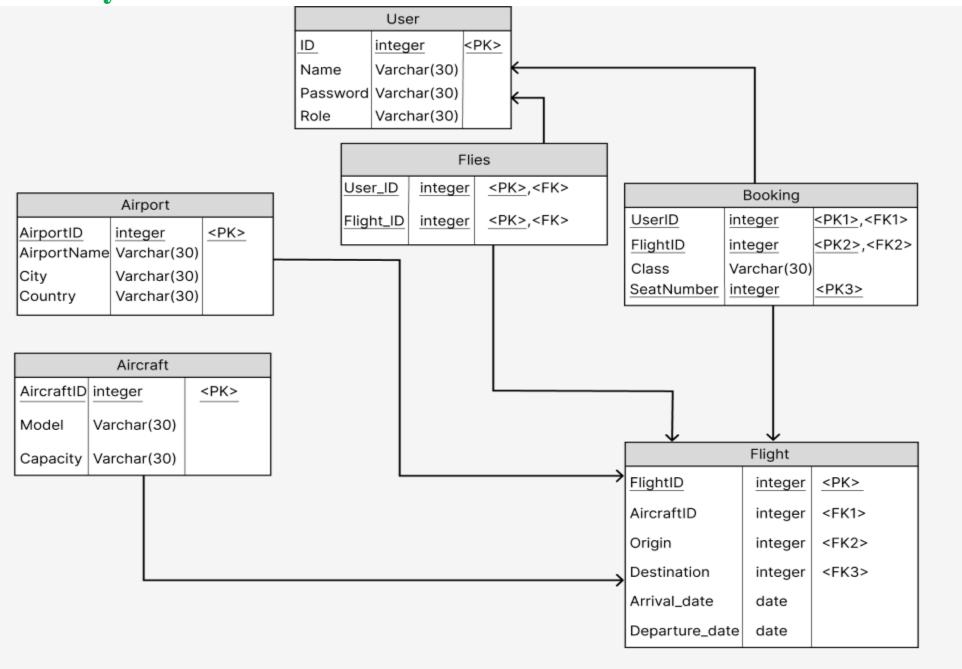
#	Name	ID	group
1.	Mohamed Shawky Mohamed Galal	20216086	S4
2.	Mohamed Elyousfy	20216083	S4
3.	Ali Amr Mohamed Moussa	20216065	S4
4.	Ahmed Ashraf El-Marakby	20216002	S4
5.	Sama Ahmed Abosaty	20216048	S4

 $\underline{TA:}$ Eng. Dina abbas

Conceptual ERD



Physical ERD



SQL code

CREATE DATABASE flight

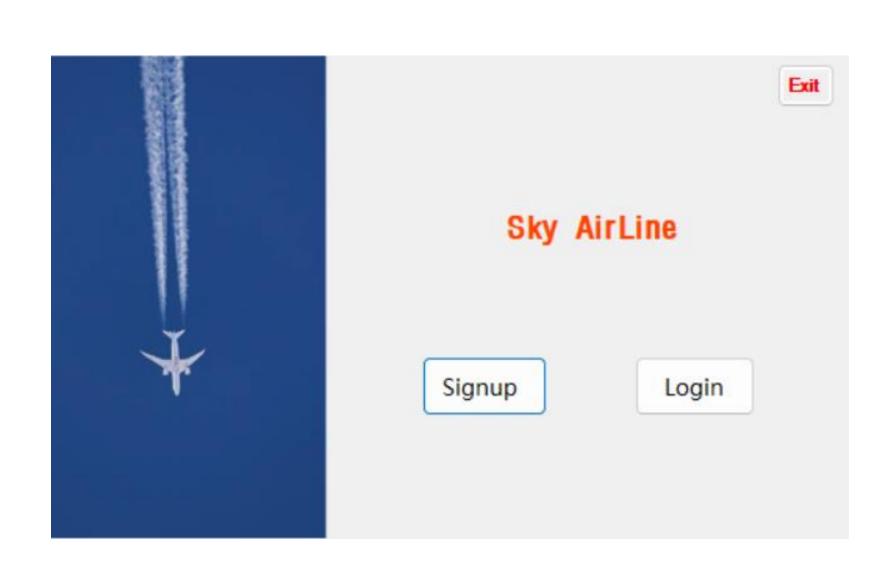
```
CREATE TABLE [user] (
id INT IDENTITY(1,1) PRIMARY KEY,
name VARCHAR(255) NOT NULL,
[password] VARCHAR(255) NOT NULL,
 [role] VARCHAR(50) NOT NULL CHECK ([role] IN ('admin', 'customer'))
);
CREATE TABLE aircraft (
id INT IDENTITY(1,1) PRIMARY KEY,
model VARCHAR(255) NOT NULL,
capacity INT NOT NULL
);
```

```
CREATE TABLE flight (
id INT IDENTITY(1,1) PRIMARY KEY,
origin INT NOT NULL,
destination INT NOT NULL,
departure_date DATETIME NOT NULL,
arrival_date DATETIME NOT NULL,
aircraft_id INT NOT NULL,
FOREIGN KEY (aircraft_id) REFERENCES aircraft (id),
FOREIGN KEY (origin) REFERENCES airport (id),
FOREIGN KEY (destination) REFERENCES airport (id)
);
```

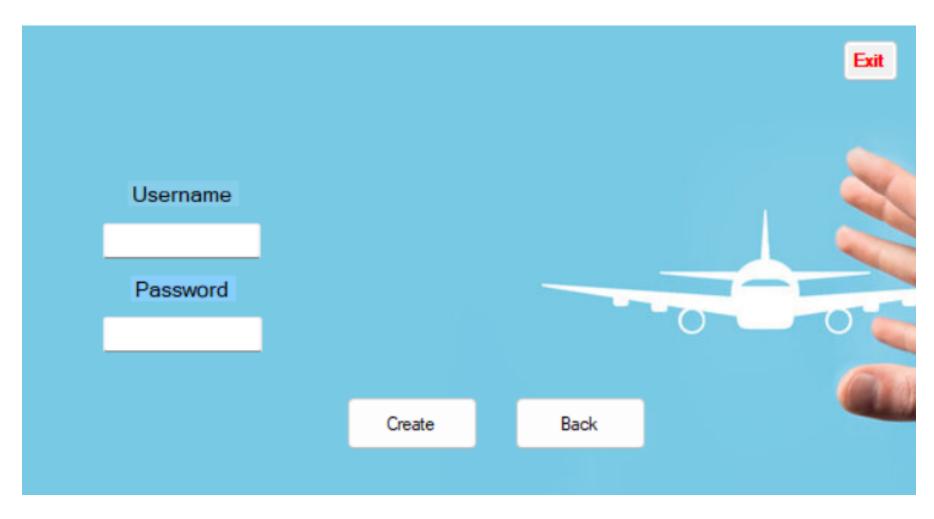
```
CREATE TABLE booking (
user_id INT NOT NULL,
flight_id INT NOT NULL,
seat_number INT NOT NULL,
 [class] VARCHAR(50) NOT NULL CHECK ([class] IN ('economy',
'business', 'first')),
FOREIGN KEY (user_id) REFERENCES [user] (id),
FOREIGN KEY (flight_id) REFERENCES flight (id),
PRIMARY KEY (user_id, flight_id, seat_number)
);
CREATE TABLE airport (
id INT IDENTITY(1,1) PRIMARY KEY,
name VARCHAR(255) NOT NULL,
city VARCHAR(255) NOT NULL,
country VARCHAR(255) NOT NULL
);
```

Screenshots

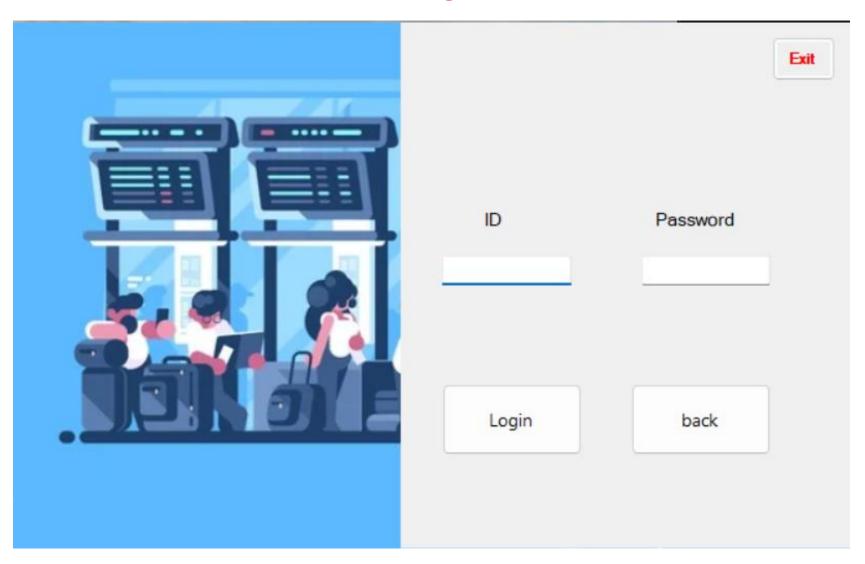




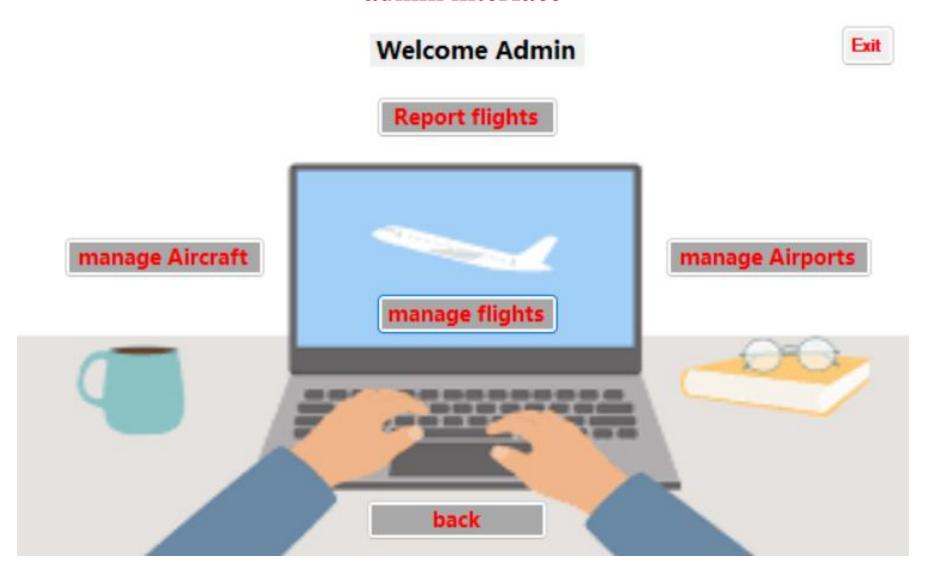
Signing up a new user



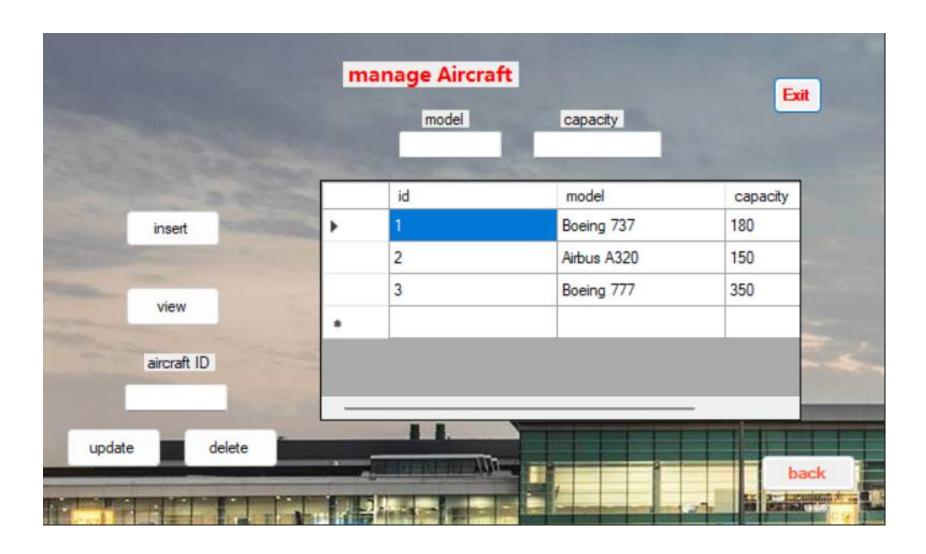
Login



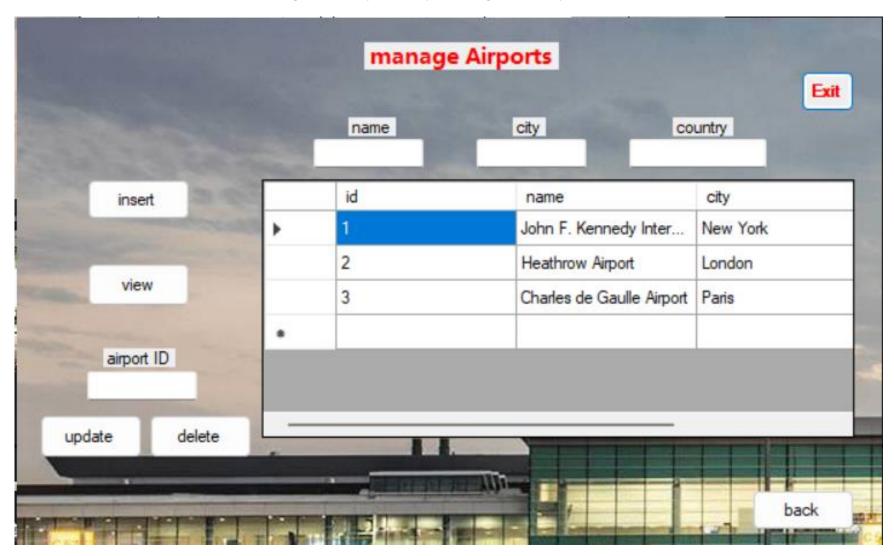
admin interface



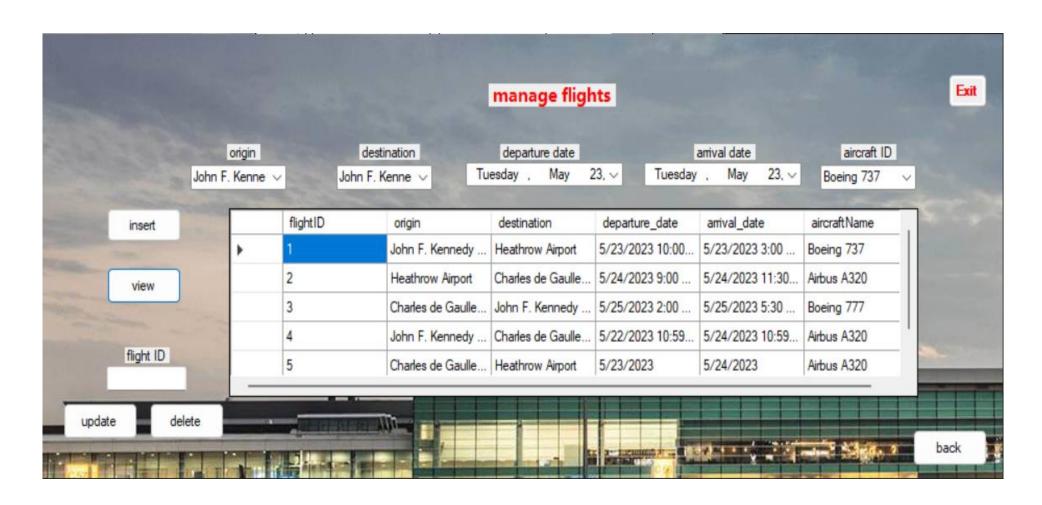
Adding an aircraft Updating an aircraft details



Adding an airport Updating an airport details



Adding a flight Updating a flight details.



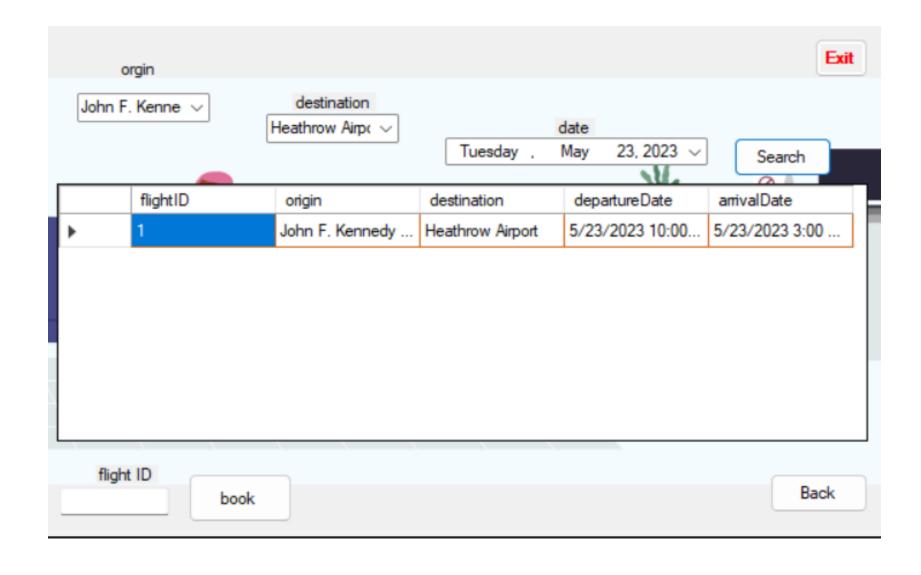
User interface



Updating a user's details



Performing operations on flights: booking



Performing operations on flights cancelling

