



# Swu-air

จัดทำโดย

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# วัตถุประสงค์

- เพื่อศึกษาการใช้งาน database จากที่เรียนรู้อยู่มา
- สร้างฐานข้อมูลจำลองระบบการจองตั๋วเครื่องบิน
- สร้างเว็บไซต์จำลองการจัดการเที่ยวบิน

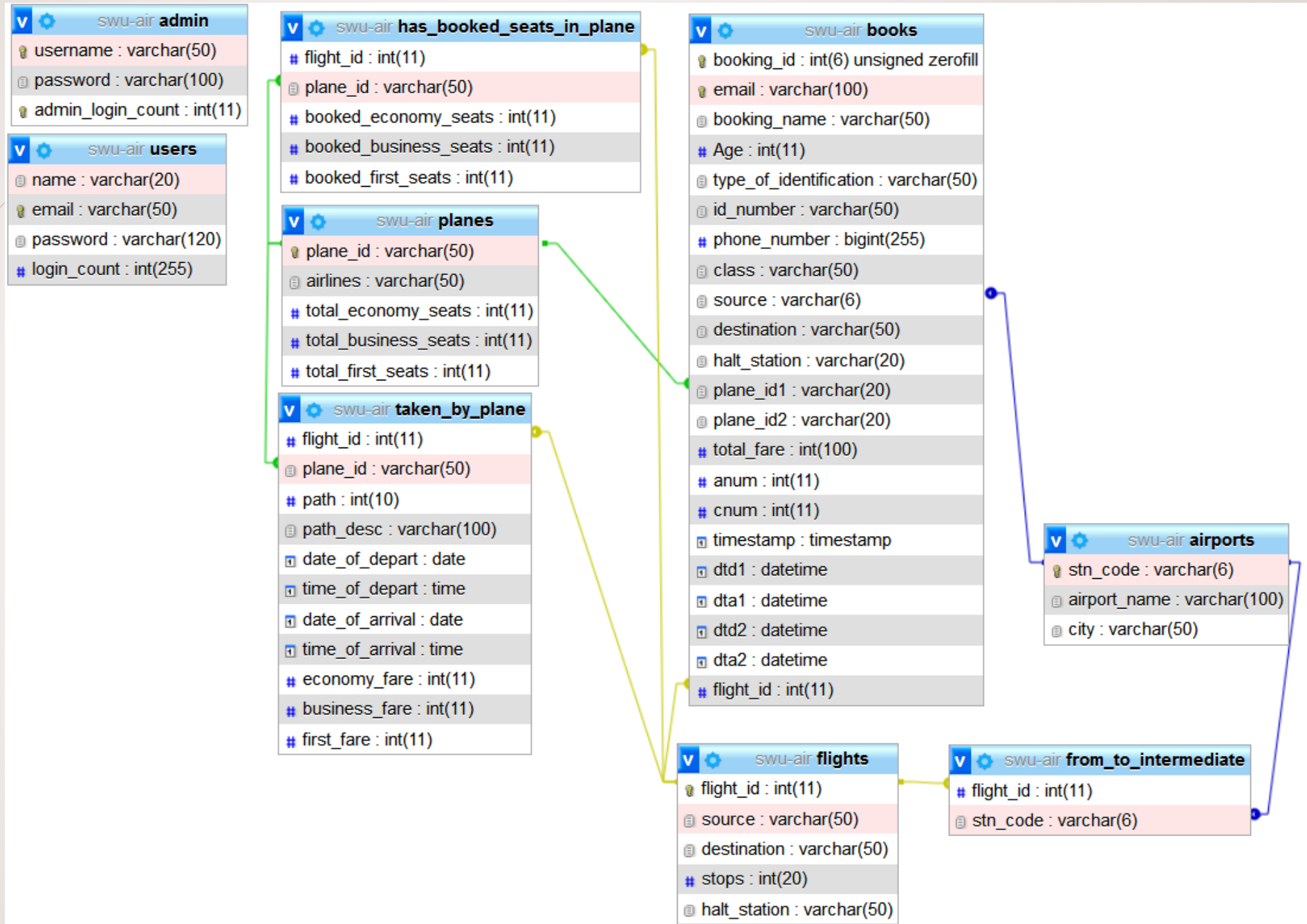
## Admin สามารถ

- เพิ่ม/ลบสนามบิน
- เพิ่ม/ลบเครื่องบิน
- เพิ่ม/ลบ/อัปเดตเที่ยวบิน
- ลบการตั๋วที่จองไว้

## User สามารถ

- สมัครสมาชิก
- จองตั๋วเครื่องบิน
- ดูประวัติการจอง

# ERD



ประกอบด้วย 9 table

Table : Admin

<b>username</b> 🔑	varchar(50)
<b>password</b>	varchar(100)
<b>admin_login_count</b> 🔑	int(11)

Table : users

<b>name</b>	varchar(20)
<b>email</b> 🔑	varchar(50)
<b>password</b>	varchar(120)
<b>login_count</b>	int(255)

Table :from\_to\_intermediate

<b>flight_id</b> 🔑	int(11)
<b>stn_code</b> 🔑	varchar(6)

Table : flights

<b>flight_id</b> 🔑	int(11)
<b>source</b>	varchar(50)
<b>destination</b>	varchar(50)
<b>stops</b>	int(20)
<b>halt_station</b>	varchar(50)

Table : airports

<b>stn_code</b> 🔑	varchar(6)
<b>airport_name</b>	varchar(100)
<b>city</b>	varchar(50)

Table : books

<b>booking_id</b> 🔑	int(6)
<b>email</b> 🔑	varchar(100)
<b>booking_name</b>	varchar(50)
<b>Age</b>	int(11)
<b>type_of_identification</b>	varchar(50)
<b>id_number</b>	varchar(50)
<b>phone_number</b>	bigint(255)
<b>class</b>	varchar(50)
<b>source</b> 🔑	varchar(6)
<b>destination</b>	varchar(50)
<b>halt_station</b>	varchar(20)
<b>plane_id1</b> 🔑	varchar(20)
<b>plane_id2</b>	varchar(20)
<b>total_fare</b>	int(100)
<b>anum</b>	int(11)
<b>cnum</b>	int(11)
<b>timestamp</b>	timestamp
<b>dtd1</b>	datetime
<b>dta1</b>	datetime
<b>dtd2</b>	datetime
<b>dta2</b>	datetime
<b>flight_id</b> 🔑	int(11)

Table : planes

<b>plane_id</b> 🔑	varchar(50)
<b>airlines</b>	varchar(50)
<b>total_economy_seats</b>	int(11)
<b>total_business_seats</b>	int(11)
<b>total_first_seats</b>	int(11)

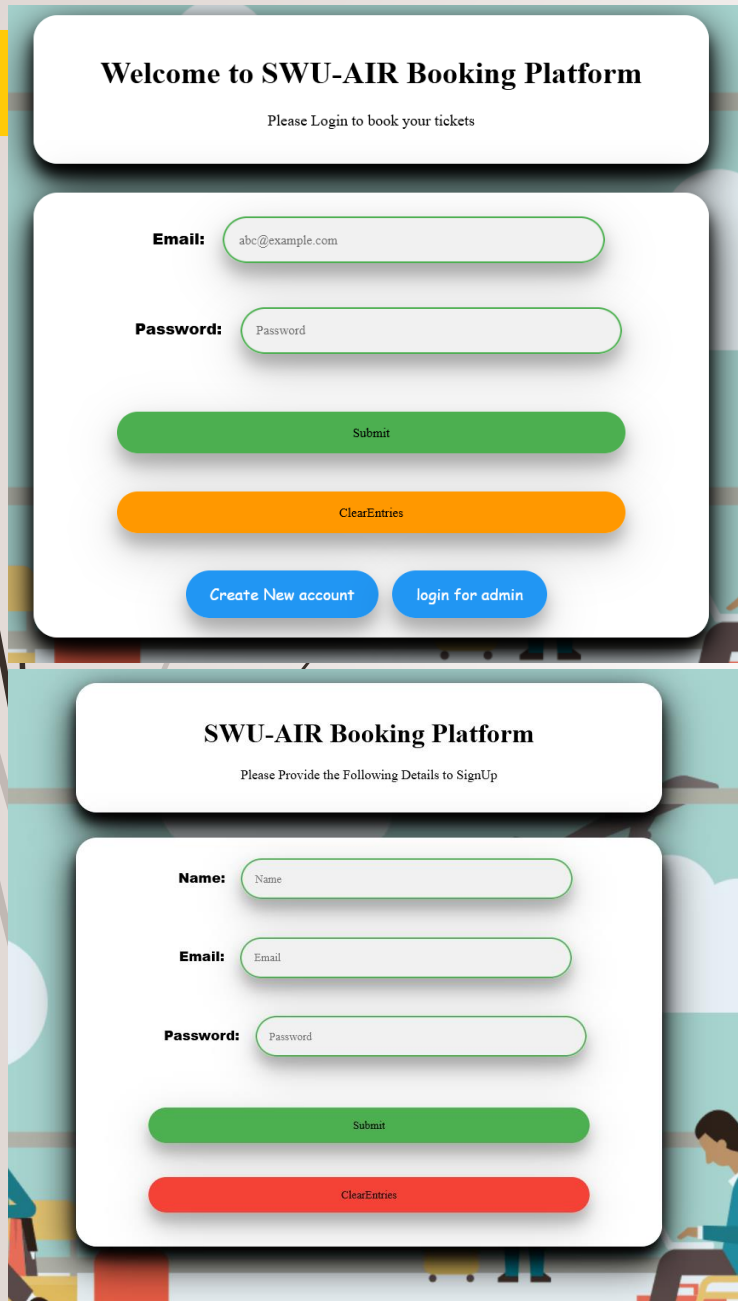
Table : has\_booked\_seats\_in\_plane

<b>flight_id</b> 🔑	int(11)
<b>plane_id</b> 🔑	varchar(50)
<b>booked_economy_seats</b>	int(11)
<b>booked_business_seats</b>	int(11)
<b>booked_first_seats</b>	int(11)

Table : taken\_by\_plane

<b>flight_id</b> 🔑	int(11)
<b>plane_id</b> 🔑	varchar(50)
<b>path</b>	int(10)
<b>path_desc</b>	varchar(100)
<b>date_of_depart</b>	date
<b>time_of_depart</b>	time
<b>date_of_arrival</b>	date
<b>time_of_arrival</b>	time
<b>economy_fare</b>	int(11)
<b>business_fare</b>	int(11)
<b>first_fare</b>	int(11)

# ตัวอย่าง application



The image displays two user interface forms for the 'SWU-AIR Booking Platform'. The top form is the login page, featuring a title 'Welcome to SWU-AIR Booking Platform', a subtitle 'Please Login to book your tickets', and input fields for 'Email' (with placeholder 'abc@example.com') and 'Password' (with placeholder 'Password'). It includes a green 'Submit' button, an orange 'ClearEntries' button, and two blue buttons: 'Create New account' and 'login for admin'. The bottom form is the registration page, titled 'SWU-AIR Booking Platform' with the subtitle 'Please Provide the Following Details to SignUp'. It contains input fields for 'Name', 'Email', and 'Password' (all with placeholder text). It features a green 'Submit' button and a red 'ClearEntries' button. The background of the forms is a light blue and green pattern with a stylized illustration of a person sitting at a desk.

**Welcome to SWU-AIR Booking Platform**  
Please Login to book your tickets

**Email:**

**Password:**

**Submit**

**ClearEntries**

**Create New account** **login for admin**

**SWU-AIR Booking Platform**  
Please Provide the Following Details to SignUp

**Name:**

**Email:**

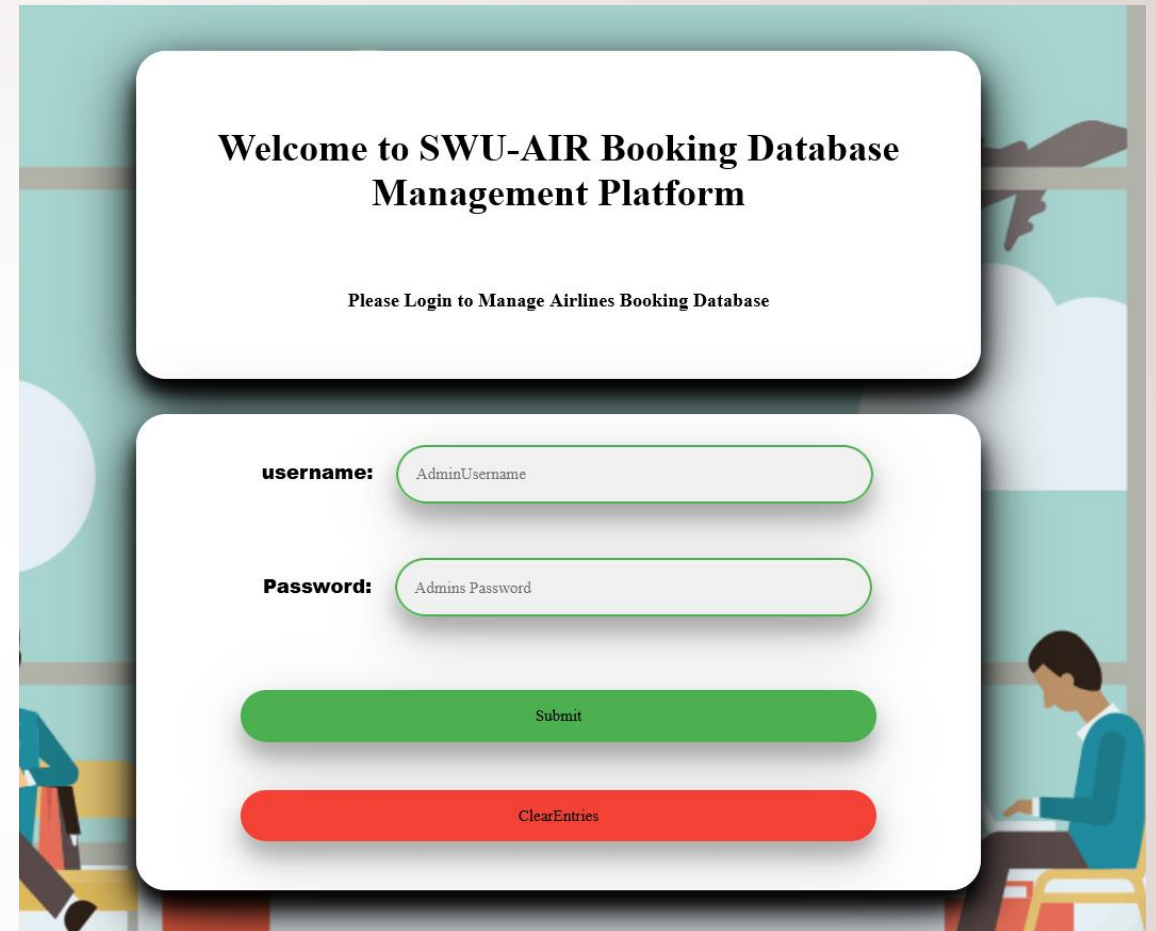
**Password:**

**Submit**

**ClearEntries**

หน้า login สำหรับ User

หน้าสมัครสมาชิกสำหรับ User



The image shows a single login form for the 'SWU-AIR Booking Database Management Platform'. The title is 'Welcome to SWU-AIR Booking Database Management Platform' and the subtitle is 'Please Login to Manage Airlines Booking Database'. The form has input fields for 'username:' (with placeholder 'AdminUsername') and 'Password:' (with placeholder 'Admins Password'). It includes a green 'Submit' button and a red 'ClearEntries' button. The background is a light blue and green pattern with a stylized illustration of a person sitting at a desk.

**Welcome to SWU-AIR Booking Database Management Platform**  
Please Login to Manage Airlines Booking Database

**username:**

**Password:**

**Submit**

**ClearEntries**

หน้า login สำหรับ Admin



SWU-AIR Database Management Platform  
Manage Flights, Airports and Planes

Profile Home Manage Flights Manage Airports Manage Planes Manage Books

### INSERT NEW PLANES

PlaneID:

AirLines Name:

Total Number of EconomyClass Seats:

Total Number of BusinessClass Seats:

Total Number of FirstClass Seats:

admin สามารถ  
เพิ่ม / ลบ เครื่องบิน  
และสนามบินได้

SWU-AIR Database Management Platform  
Manage Flights, Airports and Planes

Profile Home Manage Flights Manage Airports Manage Planes Manage Books

### Enter New Airport Details

AirportCode:

AirportName:

City:



SWU-AIR Database Management Platform  
Manage Flights, Airports and Places

Profile Home Manage Flights Manage Airports Manage Places Manage Books

New Flights

Select Source Airport

Select Destination Airport

Stops:

Proceed to Plane Details

ClearEntries

หน้าจัดการเที่ยวบิน สามารถเพิ่ม / ลบ / อัปเดต เที่ยวบินได้

Update fare

PlaneID:
Registration Number

Select Source Airport

Select Destination Airport

Date and Time of Departure:

Increased or Decreased by Price \$
Economy class

Increased or Decreased by Price \$
Business class

Increased or Decreased by Price \$
First Class

Update Fare

ClearEntries

Delete Existing Flights

PlaneID:
Registration Number

Select Source Airport

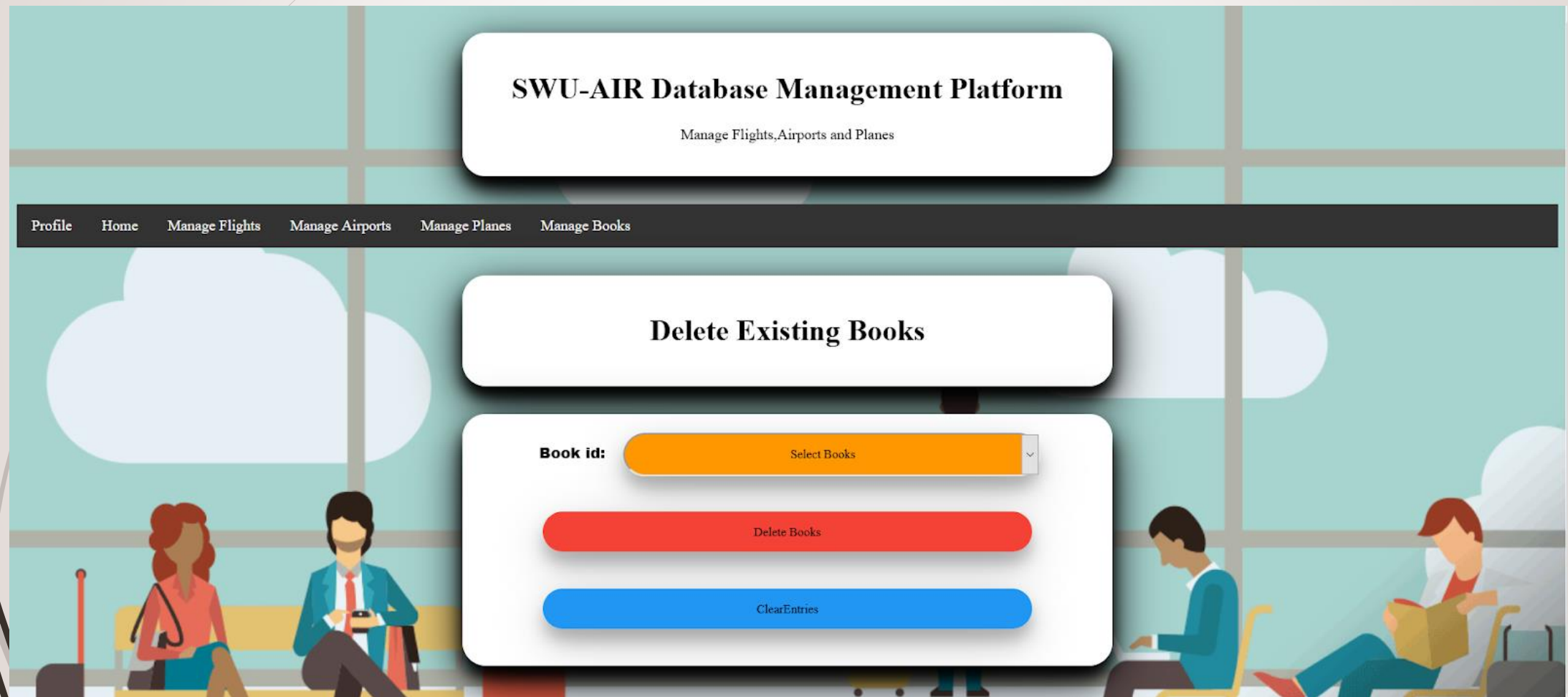
Select Destination Airport

Date and Time of Departure:

Delete

ClearEntries

# Manage Books ทำการลบตัวเครื่องบินที่ User จองไว้



## SWU-AIR Booking Platform

Book Flight tickets and Keep track of your Booking History

Profile Home Book Flight Tickets Your Booking History

### Plan Your Journey

Select Source Airport

Select Destination Airport

Economy Class

Date of Departure: 2021/04/26

Check Flights

Clear Entries

## SWU-AIR Booking Platform

Book Flight tickets and Keep track of your Booking History

Profile Home Book Flight Tickets Your Booking History

### Direct Flights from SWU-1 to SWU-2

flight_id	stops	plane_id	path	path_desc	Date_of_Depart	time_of_depart	Date_of_arrival	time_of_arrival	Class	Seats_Available	Price	BOOK_this_flights
90	0	SWU_plane1	0	Direct	2021-04-26	12:00:00	2021-04-27	11:11:00	business	20	12	Book

### Indirect Flights from SWU-1 to SWU-2

flight_id	stops	plane_id	path	path_desc	Date_of_Depart	time_of_depart	Date_of_arrival	time_of_arrival	Class	Seats_Available	Price	BOOK_this_flights
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### Passenger Details

BookingName: Name of the traveler

Choose Identification:

ID card

ID\_Number:

Age:

PhoneNumber: 10 Digit Number

Number of Adults

Number of infants

Proceed to Pay

หน้าจองตัวเครื่องบิน

## SWU-AIR Booking Platform

Book Flight tickets and Keep track of your Booking History

Profile Home Book Flight Tickets Your Booking History

### Direct Flight from SWU-1 to SWU-2 on 2021-04-26 12:00:00

▼ รายละเอียด

Booking Number : 000056 Booking Name : Manapon Age : 20

Type of ID : IDcard IDcardNumber : 1103100683389 PhoneNumber:897691622

Class of Ticket : business

Plane from SWU-1 to SWU-2 : SWU\_plane1

-----Date and Time of Depature 2021-04-26 12:00:00

-----Date and Time of Arrival 2021-04-27 11:11:00

Number of Adults : 1 Number of Infants : 0

Total Fare : 12

User สามารถดูประวัติการจองได้ใน Booking History