

# OOP Project

Group 5

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**GROUP,  
‘PROJECT**

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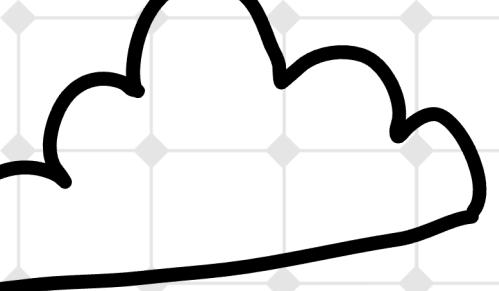
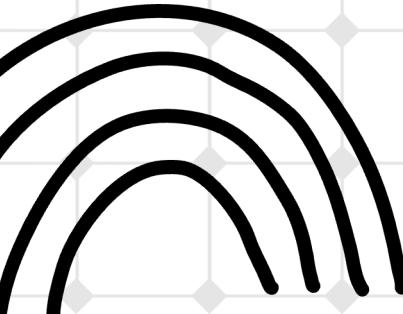
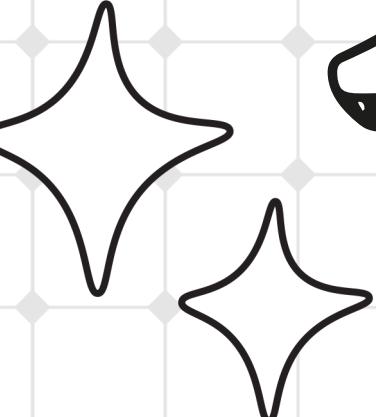
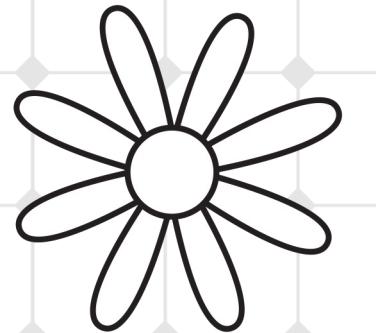
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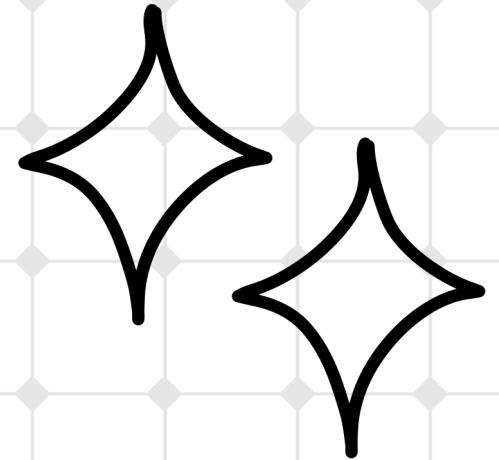
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ABOUE

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# OUR TEAM



HENG SAKLONG

CHEA PISETH

CHHORN SOLITA

CHAN SOPHARA

CHHRAN MOSES



# MEMBERS



# PICTURES



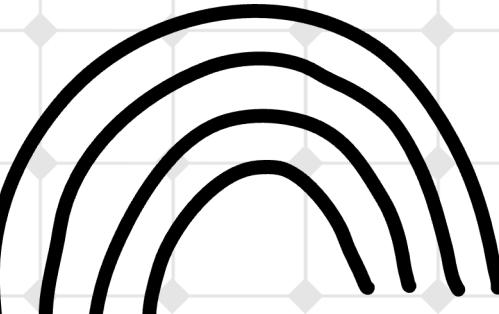
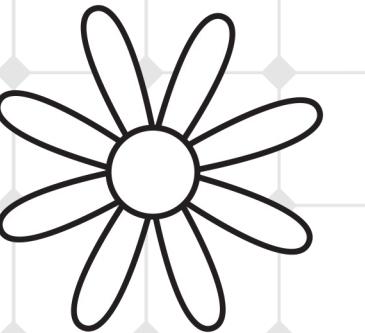
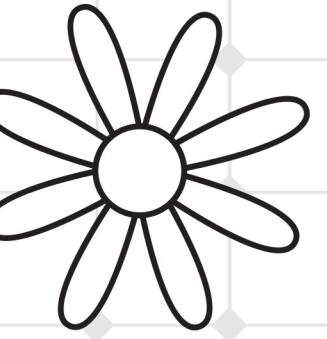
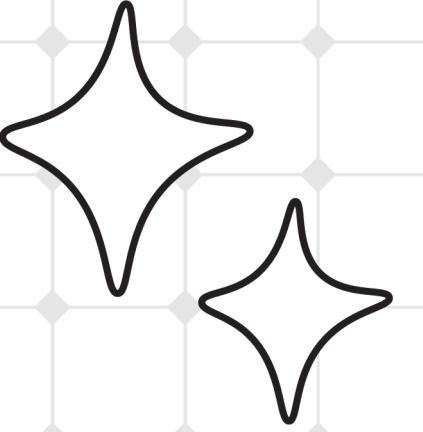
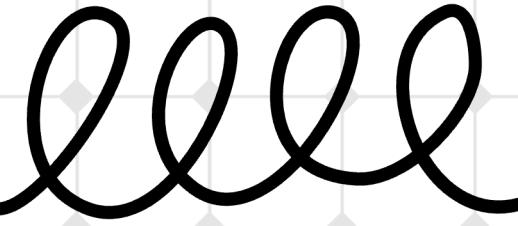
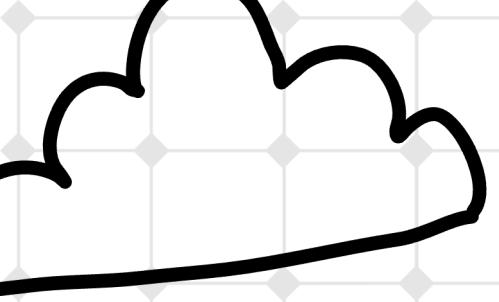
# ABOUT US

AMS-A Dream Team at ITC:  
Elevating OOP Mastery in  
Crafting Innovative Airline  
Reservation Systems with  
Mr. NA Standa's Guidance.



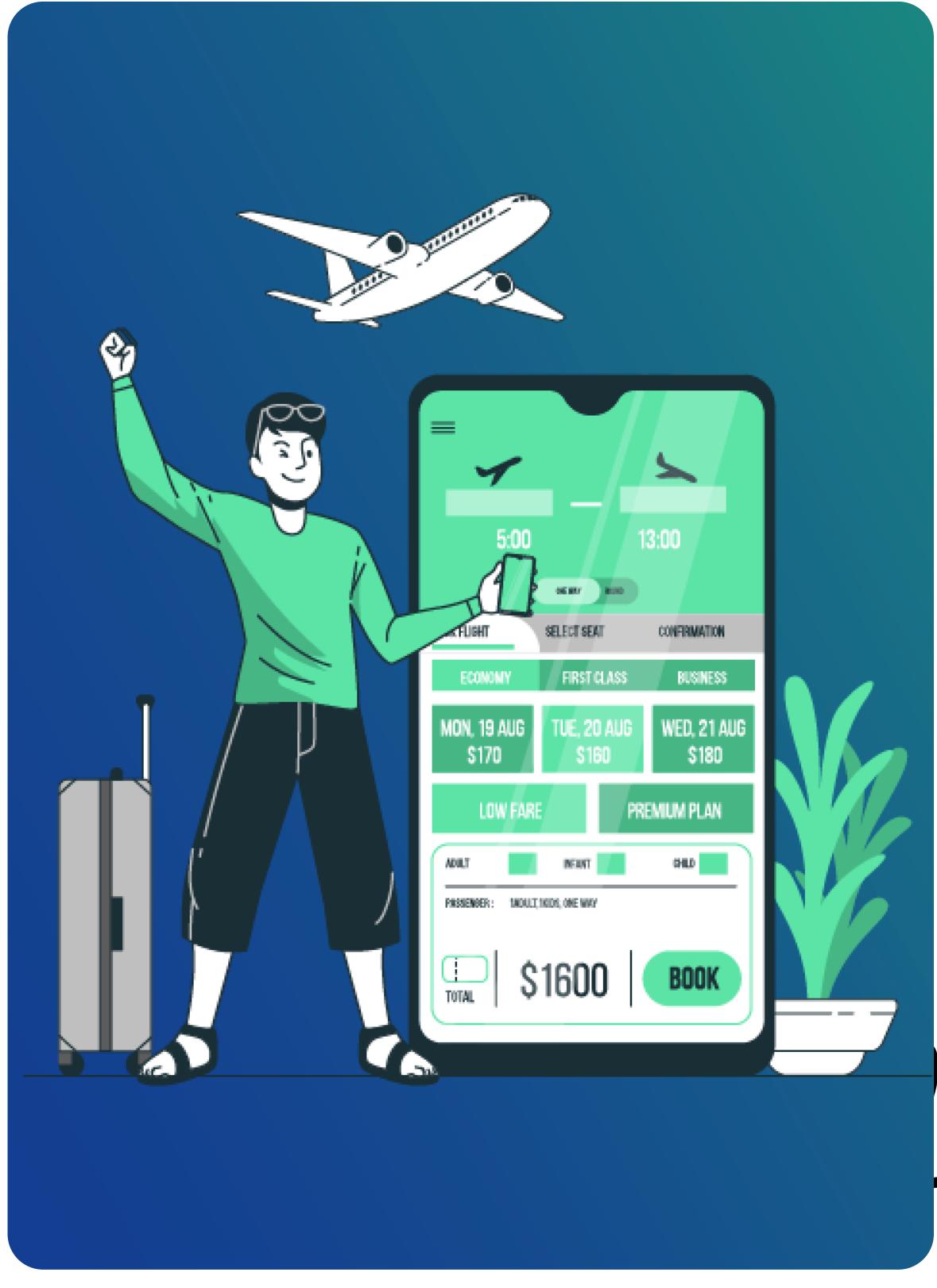
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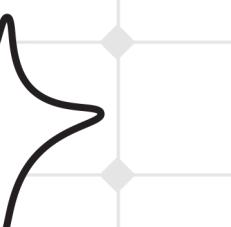
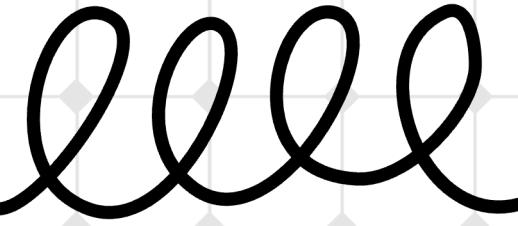
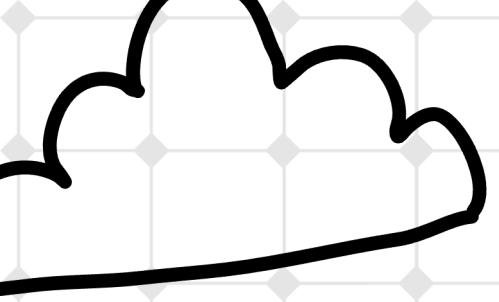


# ABOUT TOPIC

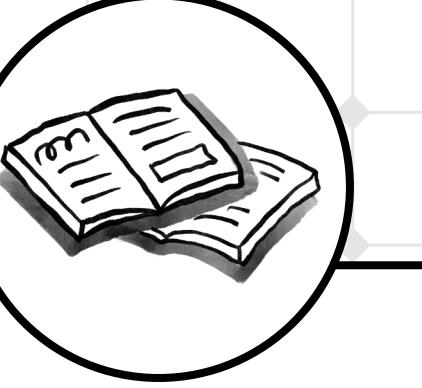
In this project, we dive into the realm of airline reservation systems, leveraging the power of Object-Oriented Programming (OOP) principles in Java. Our aim is to construct a robust, modular, and user-friendly system that seamlessly manages flight information, passenger details, reservation processes and monitoring other airline-related activities. Join us as we navigate through the complexities of the aviation industry, demonstrating how OOP in Java facilitates the creation of a scalable, maintainable, and feature-rich Airline Reservation System.



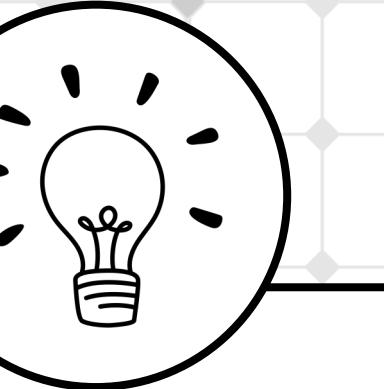
OVERVIEW



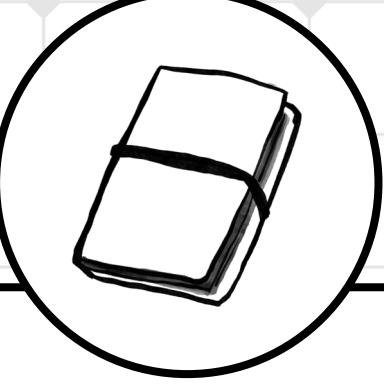
# OBJECTIVES



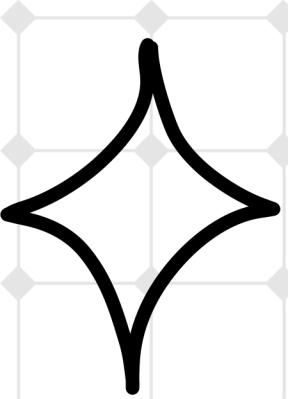
AirlineReservation might be useful for airports and make people easily books the flight for their destination.



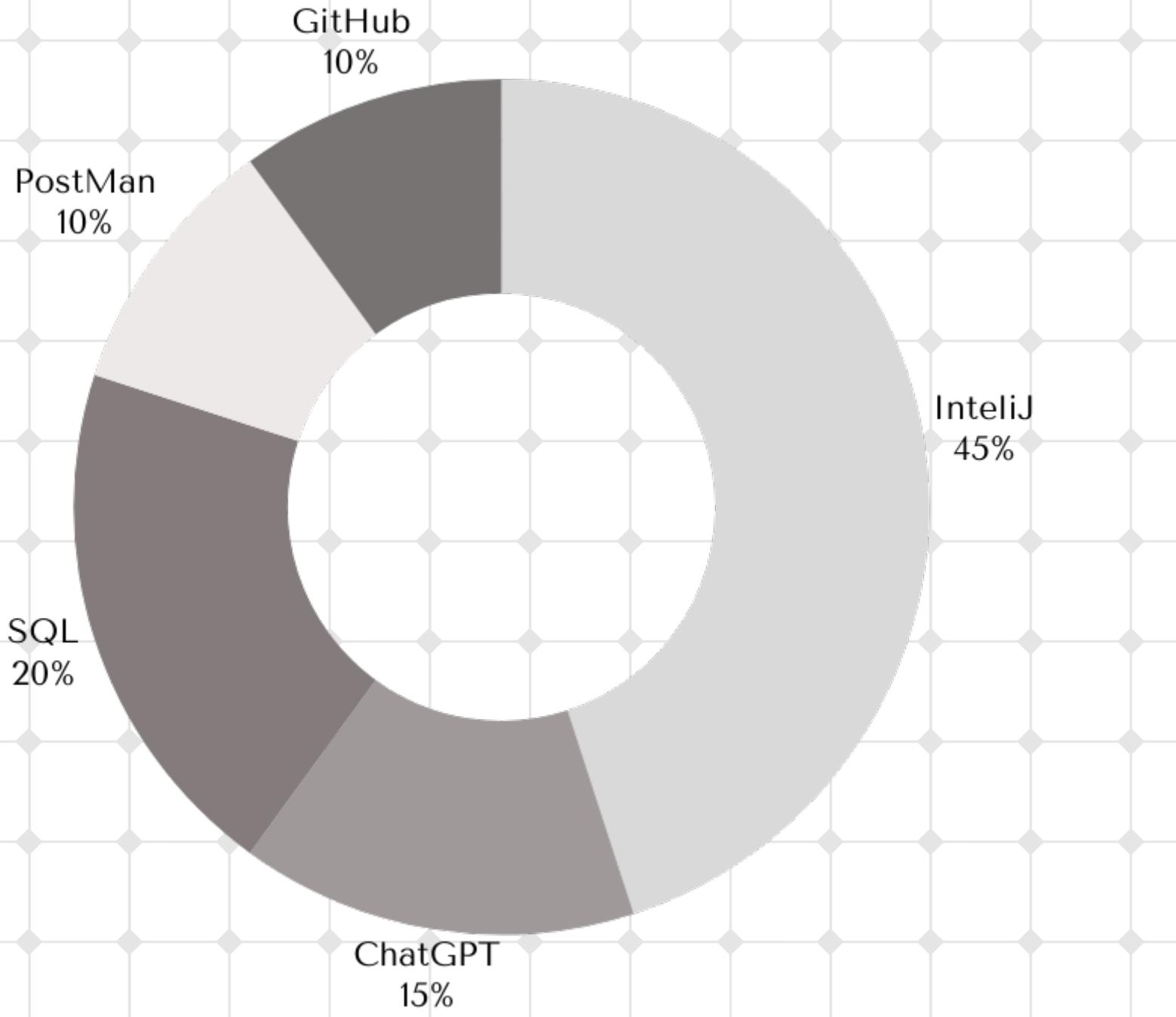
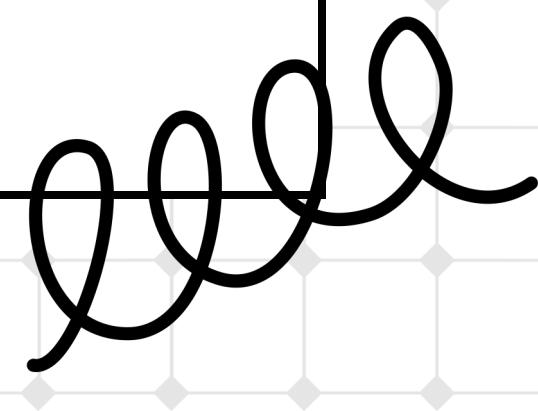
More security both service offer and customers since, we applied login platform which can store data to make sure booked money is safe and has no spam.



Operation of this could make users easy where they can book online don't need go to physical place.



# TOOLS



We use many tools for this project such as IntelliJ, ChatGPT, SQL, GitHub, PostMan and Canva.

# TECHNOLOGY WE USED

## Language:

- Html 
- Css 
- Java Script 

## Database:

- Mysql 

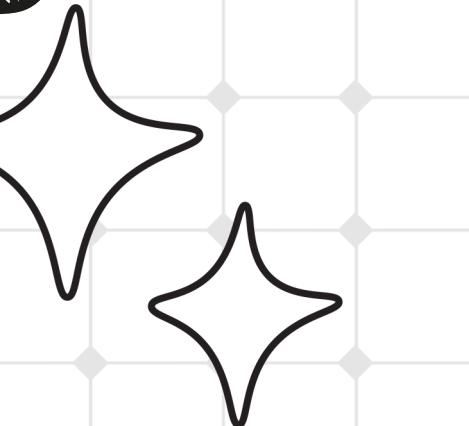
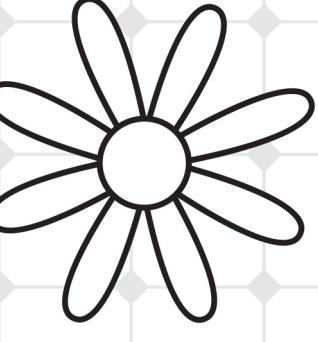
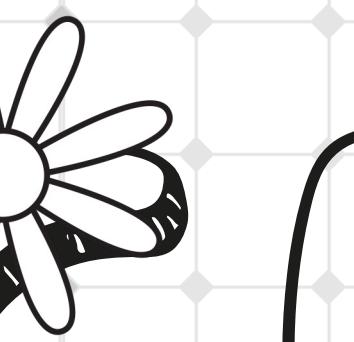
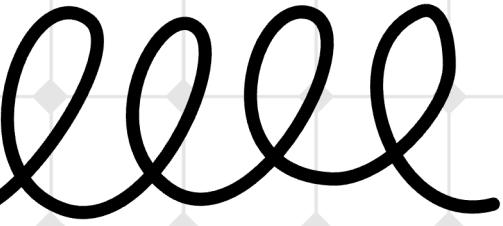
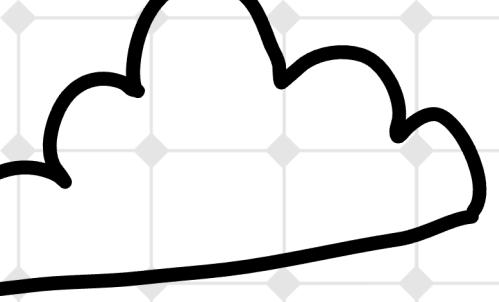
## Framworks:

- Thymeleaf 
- SpringBoot 
- Bootstrap 

## Version control:

- Github 
- VS code 

process



# PROCESS

01

(Source code)  
In flight reservation system include details about how the system handles user input, manages flight data, and facilitates, it could provide insight into making the code effective for management.

02

( API Postman)  
Implementing an API in a flight reservation system allows external applications or services to interact with and access functionalities provided by the reservation system. This is particularly useful for integrating the flight reservation system with software components.

03

(App application)  
After input source code and implementing API (Postman) successfully we will be able to move on to make an App application system to enhance user experience, accessibility, and system management.

.API

# CONCEPT OOP

WEB APPLICATION

```
Flight API Application Structure  
└── main  
    └── java  
        └── com.project_team5.ams.flightAPI  
            ├── controller  
            │   ├── AdminFlightController.java  
            │   ├── AdminPassengerController.java  
            │   ├── FlightController.java  
            │   ├── HomeController.java  
            │   ├── LoginController.java  
            │   ├── PassengerController.java  
            │   ├── RegisterController.java  
            │   └── UserPassenger.java  
            ├── data  
            │   ├── FlightRepository.java  
            │   ├── PassengerRepository.java  
            │   └── UserRepository.java  
            └── model  
                ├── Flight.java  
                ├── Passenger.java  
                └── User.java  
            └── service
```

```
Flight API Application Structure  
└── resources  
    └── static  
        └── templates  
            ├── AdminFlight.html  
            ├── AdminPassenger.html  
            ├── booking_flight.html  
            ├── home.html  
            ├── index.html  
            ├── index1.html  
            ├── login.html  
            ├── new_flight.html  
            ├── register.html  
            ├── update_flight.html  
            └── update_passenger.html  
            └── User_Booking.html  
        └── application.properties  
    └── test
```

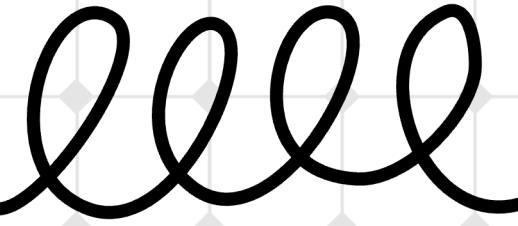
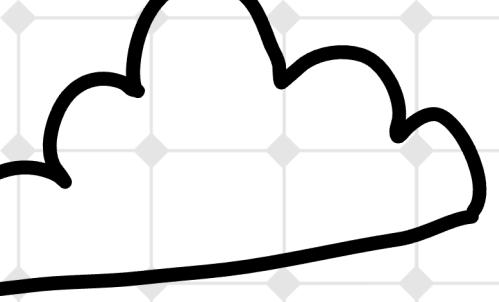
# DATA BASES

In a Flight Reservation System, databases play a crucial role in storing, managing, and retrieving information related to flights, passengers, reservations, and various other aspects of the system.

WHERE							ORDER BY		
	id	flight_number	departure_city	destination_city	departure_time	arrival_time	available_seats		
1	7	F004	Indonesia	Miyanma	02:00 AM	08:00 PM			
2	8	F009	USA	Cambodia	12:00 AM	10:00 PM			
3	14	F005	Turkey	Cambodia	02:00 AM	04:00 PM			
4	19	F007	Philiphin	Cambodia	02:00 AM	08:00 PM			
5	22	F006	Cambodia	Korea	06:00 AM	12:30 PM			

	id	name	age	gender	contact_number	booking_reference	flightId
1	3	Pao	23	Male	0124578414	BR0121545559	19
2	5	Soknan	24	Male	090787846	BR1706260160	14
3	9	You y	19	Female	0124578414	BR0121545475	19
4	10	Lita	19	Female	078784514	BR0121545476	19
5	20	o Monineath	20	Male	0964585738	BR0755465626	19
6	24	o Nich	21	Female	070908355	BR0121545432	14
7	26	J lang	22	Female	011405778	BR052154675	7
8	28	Sophara	20	Male	016656549	BR0121545430	22

conclusion



# CONCLUSION

In conclusion, our airline reservation project stands as a testament to the effective application of Object-Oriented Programming principles. Through the successful implementation of a secure code API and web application, we have not only demonstrated our technical prowess but also emphasized our dedication to creating a reliable and secure solution. This project marks a significant achievement in designing and developing a robust system tailored to the intricate demands of airline reservation. As we conclude this endeavor, we take pride in our collaborative efforts and the successful realization of a sophisticated and dependable reservation platform.

# RESULT

In summary, our airline reservation system triumphs in enabling users to effortlessly log in, make bookings, and access a range of services, while also offering seamless administrative functionalities. The successful execution of these key features underscores the effectiveness of our project, providing a user-centric and administratively robust solution for efficient airline reservations.

## Trading Flight

Flight number or city							Filter
ID	Flight Number	Departure City	Destination City	Departure Time	Arrival Time	Available Seats	
7	F004	Indonesia	Miyanma	02:00 AM	08:00 PM	46	
8	F009	USA	Cambodia	12:00 AM	10:00 PM	144	
14	F005	Turkey	Cambodia	02:00 AM	04:00 PM	77	
19	F007	Philiphin	Cambodia	02:00 AM	08:00 PM	76	

[Go To Booking](#) [Back Home](#)

# USER MANUAL

Manual for a Flight Reservation System serves as a comprehensive guide for users. The manual should provide step-by-step instructions. First, user have to input passenger name, age gender and contacting number. Then user have to choose booking reference and booking flight ID which provided by the application. After all, user be able to book the flight successfully .

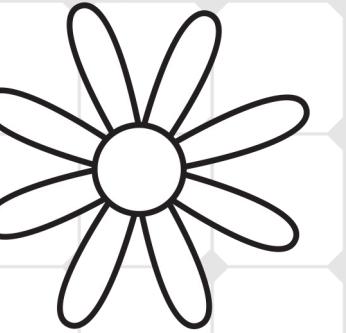
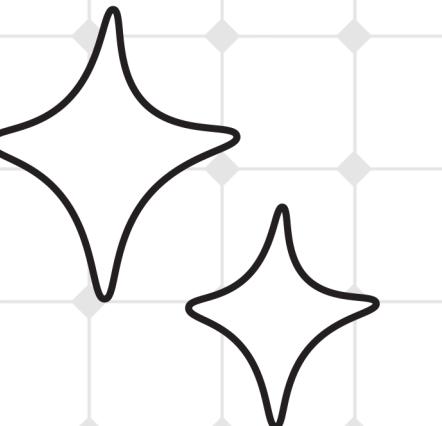
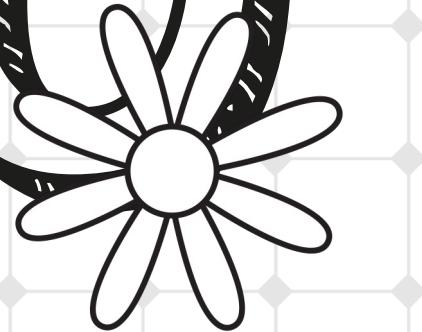
## Booking Flight

Passenger name	Passenger name
Age	0
Gender	Gender
Contact number	Contact number
BookingReference	Please fill out this field.
Booking FlightId	0
<a href="#">Book Flight</a>	
<a href="#">Back To Flight</a>	

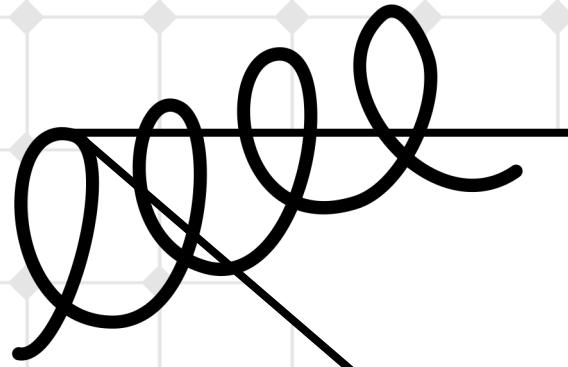
# Result

Module	Functionalities	Description
Authentication	Login	Completed
	Register	Completed
	Forgot Password	Completed
Application	Manage data teacher	Completed
	Manage data Flights	Completed
	Manage data Passengers	Completed
	Assign BookingFlight to Passengers	Completed
	Calculate Price	Completed

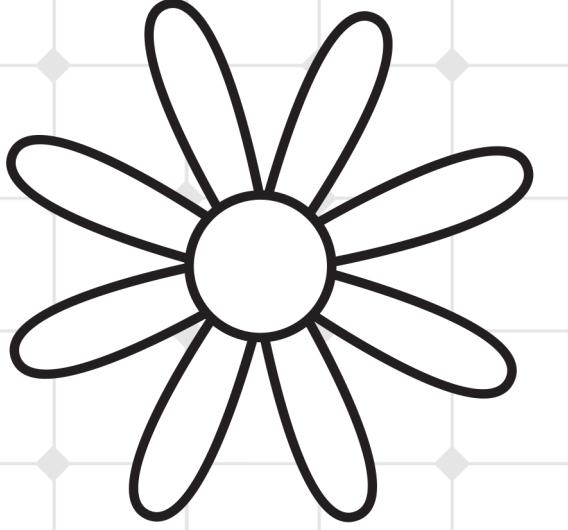
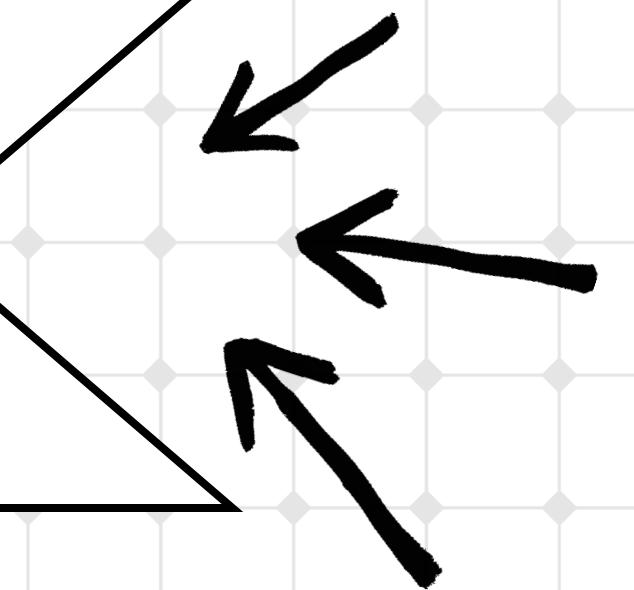
DEMO



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DEMO



TIME

