



Airline Reservation System (ARS)

Ahmad Ghalayini 202301419

Ahmad Khalil 202303762

Abed Al Rida Nehme 202303149

Mahdi Al Ajami 202302965

A

Clean coding

- Clean coding refers to the practice of writing code that is easily understandable, readable, and maintainable by other programmers. It emphasizes the use of clear and descriptive variable names, well-structured code layout, proper indentation, and adherence to coding standards and best practices.
- The importance of clean coding in problem-solving lies in its ability to enhance collaboration and knowledge sharing among developers.

B

Low complexity

- Low complexity in the context of large-scale programs and data management refers to the simplicity and efficiency of algorithms, structures, and overall design within the system. Keeping complexity low is crucial as systems grow in size and scope.
- Reduced complexity leads to improved maintainability, easier debugging, and better predictability in terms of system behavior.

C

User freedom

- User freedom in website creation refers to the ability of users to navigate, interact, and access content without unnecessary restrictions or impediments.
- This approach enhances user satisfaction, encourages longer interactions, and often leads to increased user retention

D

Real-life applications

- Real-life applications are developed to address specific problems or needs in the real world. They provide solutions that improve efficiency, productivity, or quality of life for individuals, businesses, or society as a whole.
- Real-life applications serve as excellent educational tools. They provide hands-on experience and practical learning opportunities for students and professionals, allowing them to apply theoretical knowledge to real-world situations.



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The last step in this program is to display the ticket and finalizing the preparations for the trip by weighing the luggage and choosing the seats just like the real-life boarding procedure .

Future work

1-expand the list of destinations

2-applying more filters

3-implementing more related
procedures

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1-expand the list of destinations

- For sure we can expand the scope of the destinations by simulating the real-life available choices.
- In this program we tried to shrink the area of operation of this program with the top 10 destinations worldwide.

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- Some airlines offer even further filters on the flights and the flight preparation to include all the changes that the clients wants to make
- We can also apply these new filters depending on the airline company because the filters may differentiate between a company and another

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- **Safety Briefing:** Before the flight takes off, the cabin crew will provide a safety briefing, demonstrating the use of safety equipment and giving instructions for emergencies.
- **Security Check:** After receiving your boarding pass, you'll go through the security checkpoint. Here, you'll need to present your ID and boarding pass and pass through security scanners. Laptops, liquids, and certain items may need to be removed from your carry-on for screening.

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