AIRLINRS EXPERT SYSTEM

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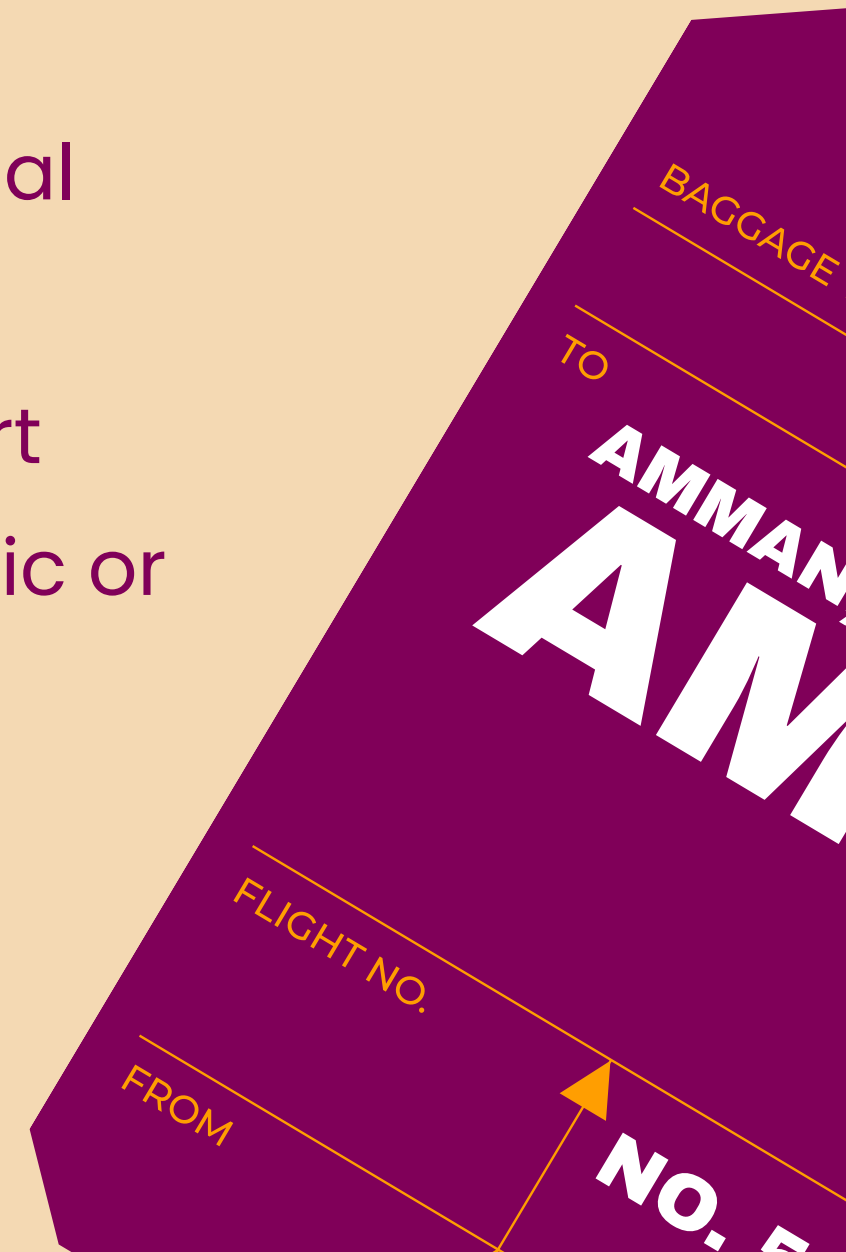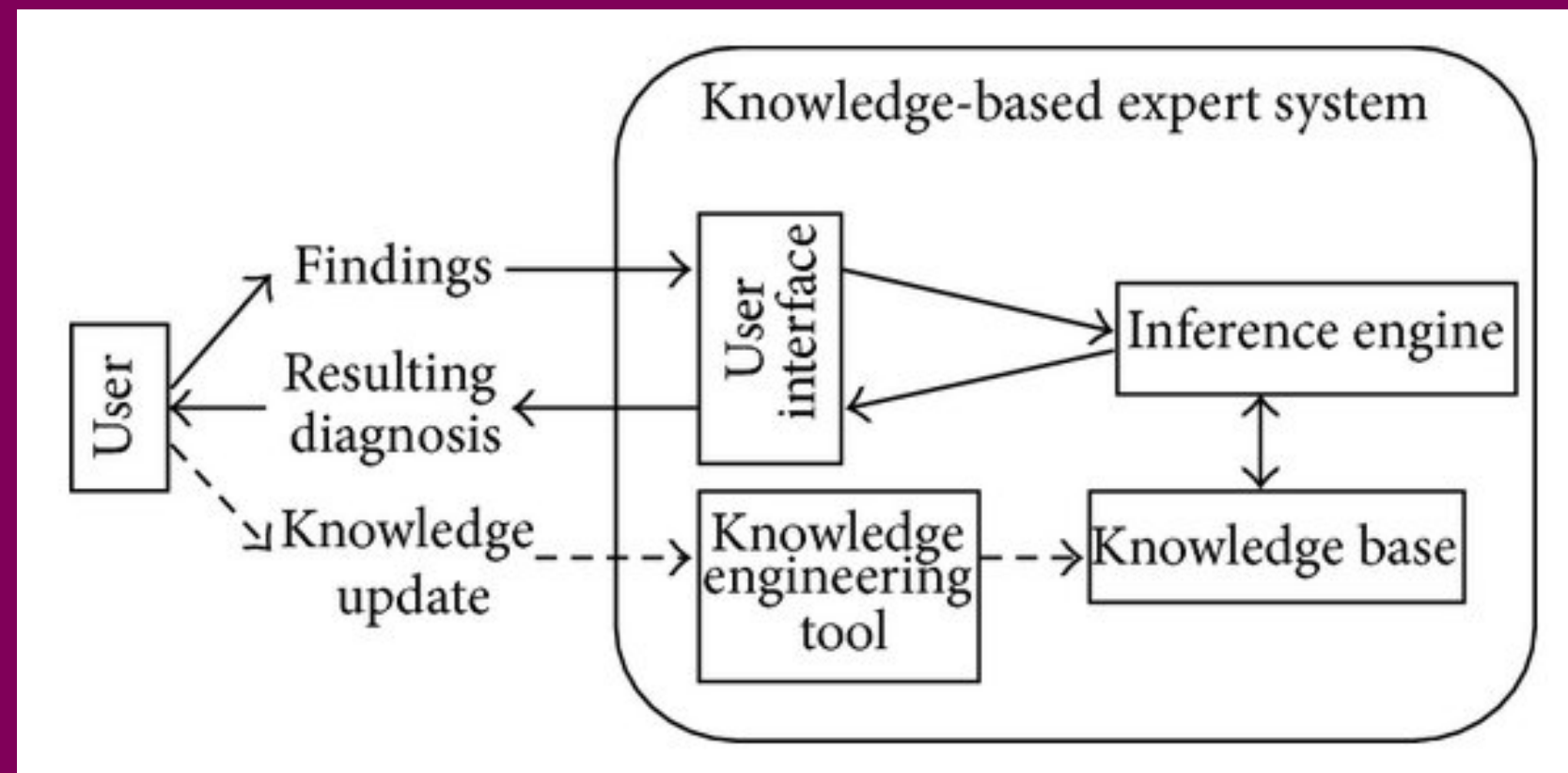
PRESENTATION OUTLINE

WHAT IS AN EXPERT SYSTEM

- is a computer system emulating the decision-making ability of a human expert

- It is mainly developed using artificial intelligence concepts, tools and technologies, and possesses expert knowledge in a particular field, topic or skill.

HANOI, VIETNAM

HAN

94-37-46

GLOBAL TRAVELS

FLIGHT

BOM

MUMBAI, INDIA

GT 71-33-09

BAGGAGE

TO

AMMAN

AM

FLIGHT NO.

FROM

NO.

TYPES OF EXPERT SYSTEM

- expert system is divided into two sub-system:

inference engine and the knowledge base

KNOWLEDGE-BASED EXPERT SYSTEM

This knowledge-based expert system enables the system to be frequently added with new knowledge and adapt accordingly to meet new requirements from the ever-changing and unpredictable environment.

HOW DOES AN EXPERT SYSTEM WORK

- It performs this by extracting knowledge from its knowledge base using the reasoning and inference rules according to the user queries.
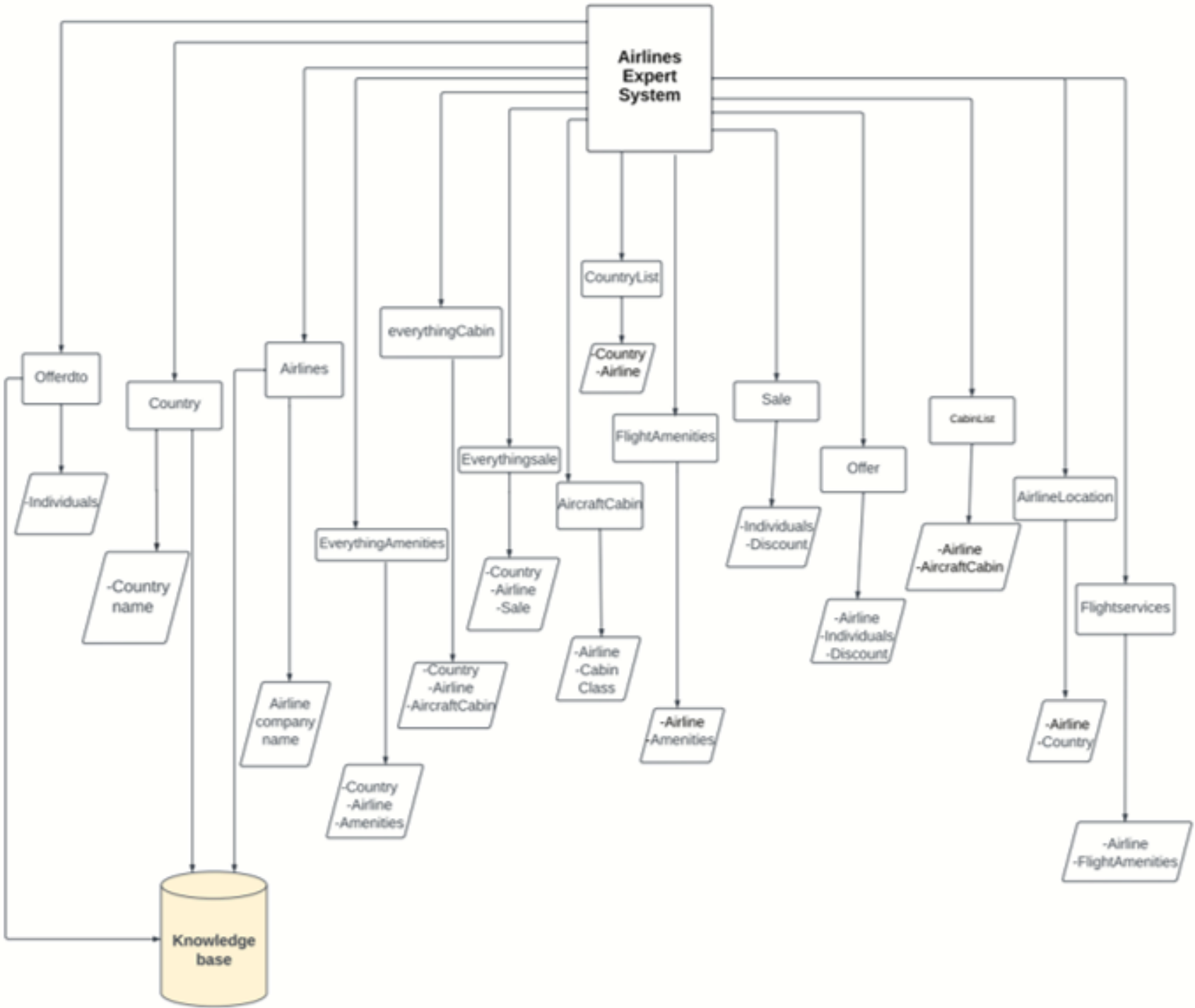
AIRLINE EXPERT SYSTEM

The objective of the expert system in our project is to offer the customer the most appropriate and available airlines based on their preferred services, seats, and discounts. Furthermore, the system helps customers to choose the most suitable airline, and view lists of countries, airline companies, and discounts on each.

ADVANTAGES OF THE AIRLINE SYSTEM

Earlier, people used to check in with each company separately. Our system collects data from each company in the middle east area. So, it's easy for customers to find a flight to reserve anywhere and anytime.

GLOBAL TRAVELS

MUMBAI,

GT 71-33

PASSPORT

PASSPORT

FLOWCHART

CODE IMPLEMENTATION

For implementation, we used Prolog language and Swish for the software. Prolog is a logic programming language associated with artificial intelligence and Swish is an implementation of the programming language Prolog.

SAMPLE OF THE RUN TIME

country(COUNTRY).

COUNTRY = saudiArabia
COUNTRY = emirate
COUNTRY = qatar
COUNTRY = bahrain
COUNTRY = jordan
COUNTRY = egypt
COUNTRY = kuwait

?- country(COUNTRY).

flightAmenities(COMPANY,AMENTITIES).

AMENTITIES = availabileWifi,
COMPANY = flyNas
AMENTITIES = setbackScreen,
COMPANY = flyNas
AMENTITIES = aPrayerArea,
COMPANY = flyNas
AMENTITIES = availabileWifi,
COMPANY = adele
AMENTITIES = aPrayerArea,
COMPANY = adele
AMENTITIES = availabileWifi,
COMPANY = saudiaAirline
AMENTITIES = setbackScreen,
COMPANY = saudiaAirline

?- flightAmenities(COMPANY,AMENTITIES).

airline(CompaniesNames).

CompaniesNames = flyNas
CompaniesNames = adele
CompaniesNames = saudiaAirline
CompaniesNames = flydubai
CompaniesNames = emirates
CompaniesNames = etihadAirways
CompaniesNames = qatarAirline
CompaniesNames = kuwaitAirways
CompaniesNames = gulfAir
CompaniesNames = royalJordanian
CompaniesNames = airCairo

?- airline(CompaniesNames).

RESOURCE PAGE

REFRENNES:

- "EXPERT SYSTEM - DEFINITION, COMPONENTS, FEATURES AND APPLICATIONS," MBA KNOWLEDGE BASE, 04-OCT-2017. [ONLINE]. AVAILABLE: HTTPS://WWW.MBAKNOL.COM/INFORMATION-SYSTEMS-MANAGEMENT/WHAT-IS-EXPERT-SYSTEM/

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- THEINTACTONE. 2022. KNOWLEDGE BASED EXPERT SYSTEM (KBES). [ONLINE] AVAILABLE AT: HTTPS://THEINTACTONE.COM/2020/11/12/KNOWLEDGE-BASED-EXPERT-SYSTEM-KBES/

- M. S. QURESHI, "LAB-11: EXPERT SYSTEM (HOTELINFORMATIONSYSTEM)."

THANK YOU FOR LISTENING!

Don't hesitate to ask any questions!