BSc Project
CS Department
UQU–CS–2021F–19

Smartness of Hospitality

UMM AL-QURA UNIVERSITY
جامعـــة أم القـــرى

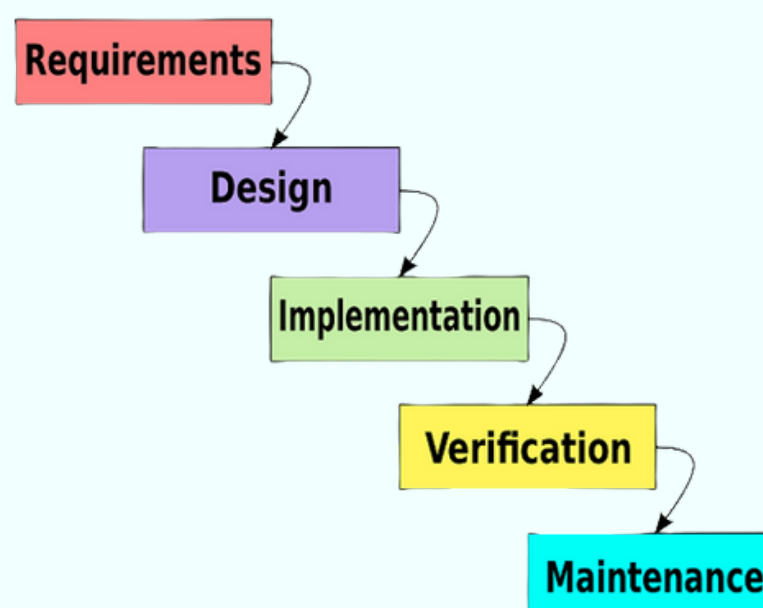AUTHORS : BSHAER ALMOWALLD, ELAF BASHAMMAKH, SHAHAD ZAINI, ARWA BAJIHZIR, BUSHRA ALQARNI
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COMPUTER SCIENCE DEPARTMENT – UMM ALQUR UNIVERSITY – MAKKAH – KINGDOM OF SAUDI ARABIA

INTRODUCTION

Hajj and Umrah are remarkable and memorable experience for each pilgrim. We are looking forward to provide an Efficient and better utilization and usage of the pilgrims data to take a new step into achieving smart Hajj and contribute in the vision of 2030 of the kingdom.

METHODOLOGY | TOOLS

Requirements → Design → Implementation → Verification → Maintenance

PURPOSE OF THE PROJECT

The objective of this project is to build a machine learning model using Hajj and Umrah to improve services provided to pilgrims.
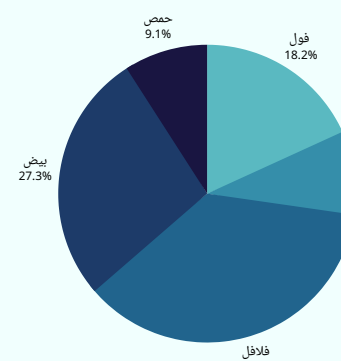
How does it work?

- Collect Hajj data from the Ministry of Hajj and Umrah
- Perform artificial analysis to extract pilgrims' preferences from available social sites.
- Allow pilgrims to enter data such as health status and food favorites.

Our Aim

Generate a complete and ready-made plan that Hajj companies can benefit from, to improve the decision making process and contribute to enriching pilgrims experience.

RESULT

حمص 9.1% | فول 18.2% | حلاوة طحينية 9.1% | بيض 27.3% | فلافل 36.4%

شركات الحج | الحاج

رقم المعرف	رقم هوية القريب	اسم القريب	الاحتياجات الخاصة	الحالة الصحية	الإيميل	الجوال	العمر	رقم الهوية	الاسم
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١٢.٥	١١١١١١١١١	Khalid Abdullah Mohammed Al-Otaibi	لا يوجد	سكر	mohammed@gmail.com	٠٠٠٠٠٠٠٠٠+	٥٥	١١١١١١١١١	Khalid Abdullah Al-Otaibi
١٠.٣	١١١١١١١١١	Haitham Hassan Ali al, Qarni	لا يوجد	جيدة	fatemah@gmail.com	٠٠٠٠٠٠٠٠٠+	٢٣	١١١١١١١١١	Fatima Hassan Ali Al , Qarni

HOW THE SYSTEM WORKS

Ministry of Hajj and Umrah data + Data gathered from pilgrims

Classify & Analyze data

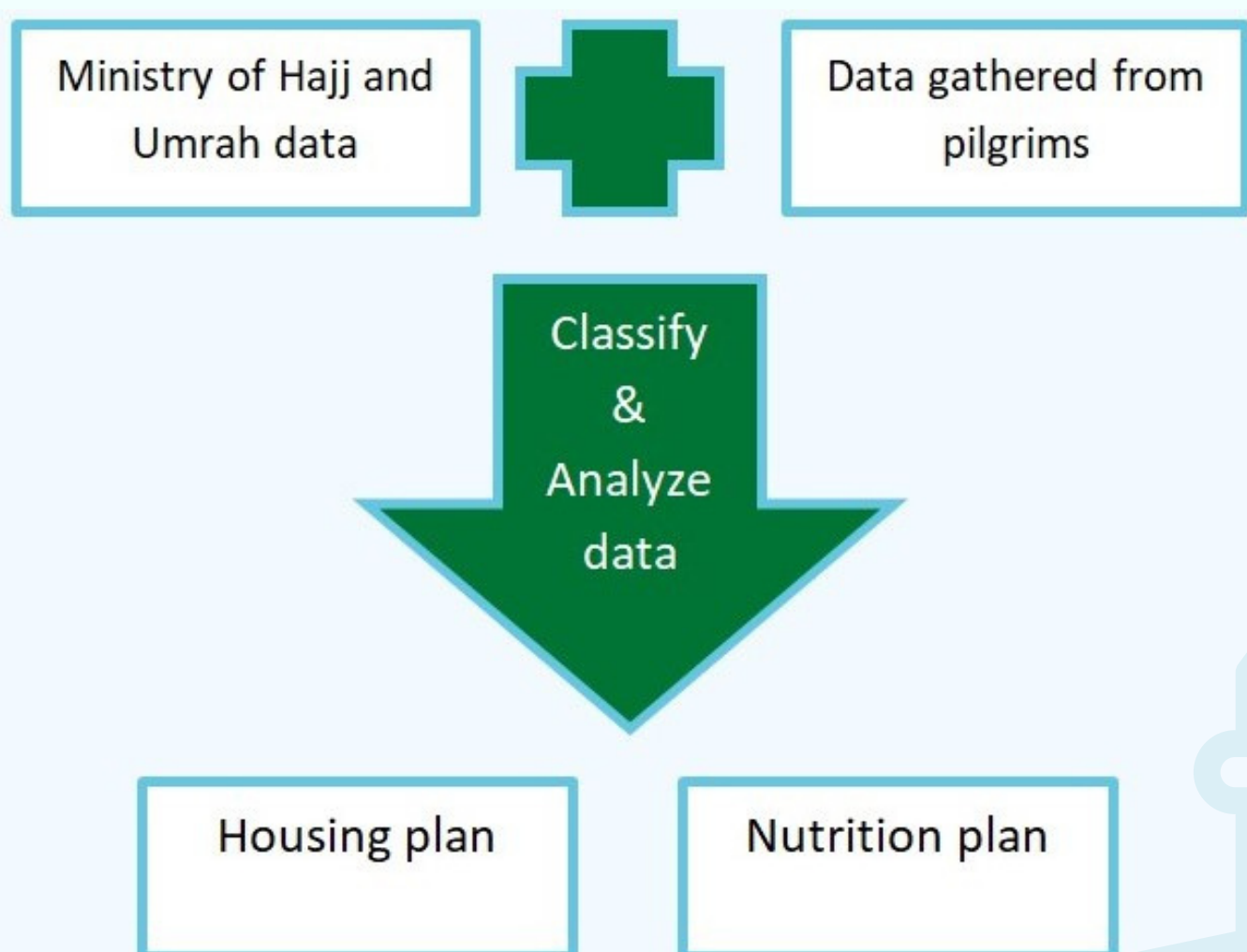Housing plan | Nutrition plan

FUTURE PLANS

- Using AI and the data we gathered to help in housing providing, suitable food for pilgrims and transporting based on their relatives, health status, Favorite foods , age group and nutritional needs.
- Extracting Hajj data from social networking sites
- Benefiting from the data entered by the pilgrim in housing, feeding and transportation
- Service the Ministry of Hajj by providing it with the data of pilgrims
- Provide services in the Umrah

CONCLUSION

This project is a big step in the field of pilgrim service, as it will be the first reference for all Hajj companies to obtain integrated information that can be used in making a decision regarding the service of the pilgrim.
We collected the data from the pilgrims, analyzed and classified them, and add them to the data coming from the Ministry of Hajj and Umrah to complete a new success story in satisfying the pilgrims.

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