kalbonyan | كالبُنيان

A voluntary application that serves students with disabilities by other students and equipped with artificial intelligence

UMM AL-QURA UNIVERSITY
جامعة أم القرى

KALBONYAN
كـالبنيان

Supervised by: Dr. Olfat Mirza

Lama Asiri

Shahad Malibari
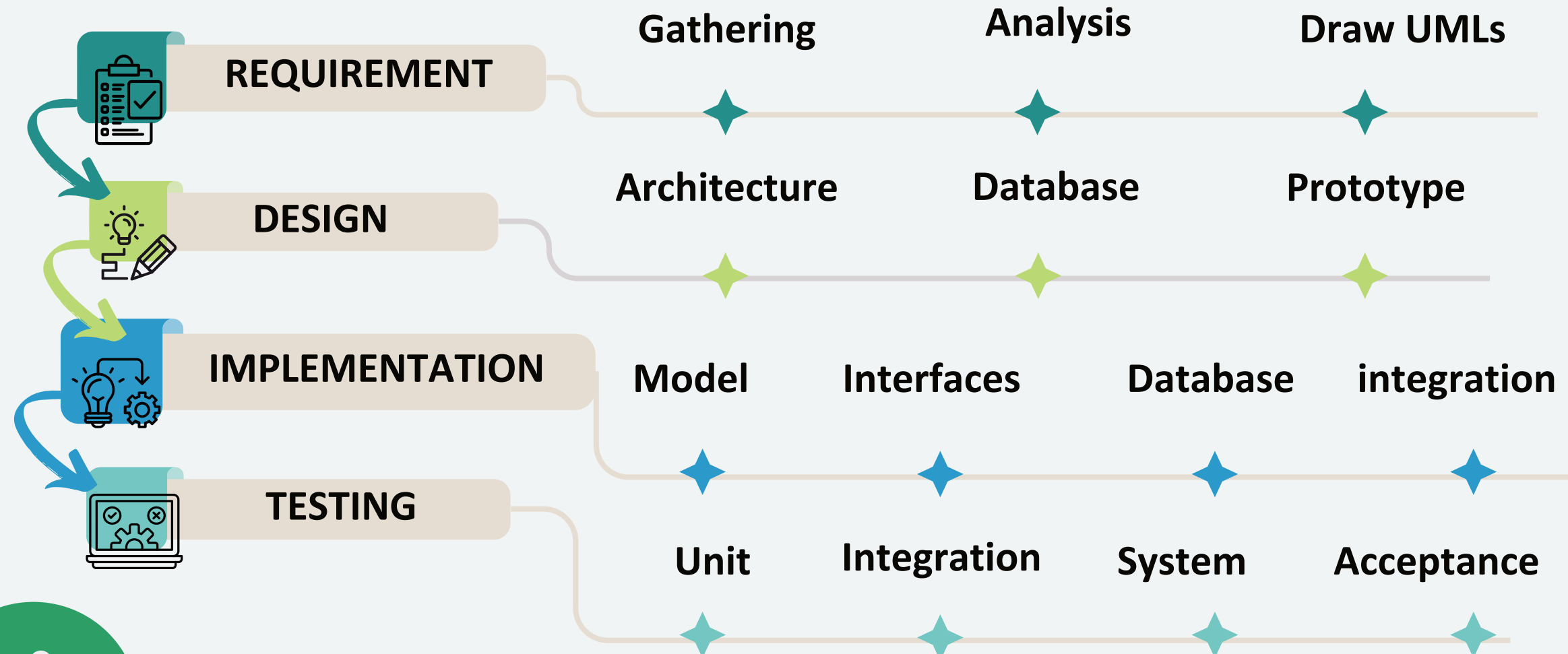
Shamael Albogami

Shaymaa Almalki

COMPUTER SCIENCE DEPARTMENT, UMM AL-QURA UNIVERSITY, KSA, 2023

ABSTRACT

Universities are diverse educational institutions with students from different backgrounds, including students with disabilities. Students with disabilities face unique challenges in learning and participating in society, and volunteer work for college students may be an important way to help these students succeed. College students have extra free time that they can use for useful work, and there are students with disabilities who may need an extra hand during their college careers. , but finding someone who can help them may take time and effort so we created our app.

METHODOLOGY
waterfall Methods

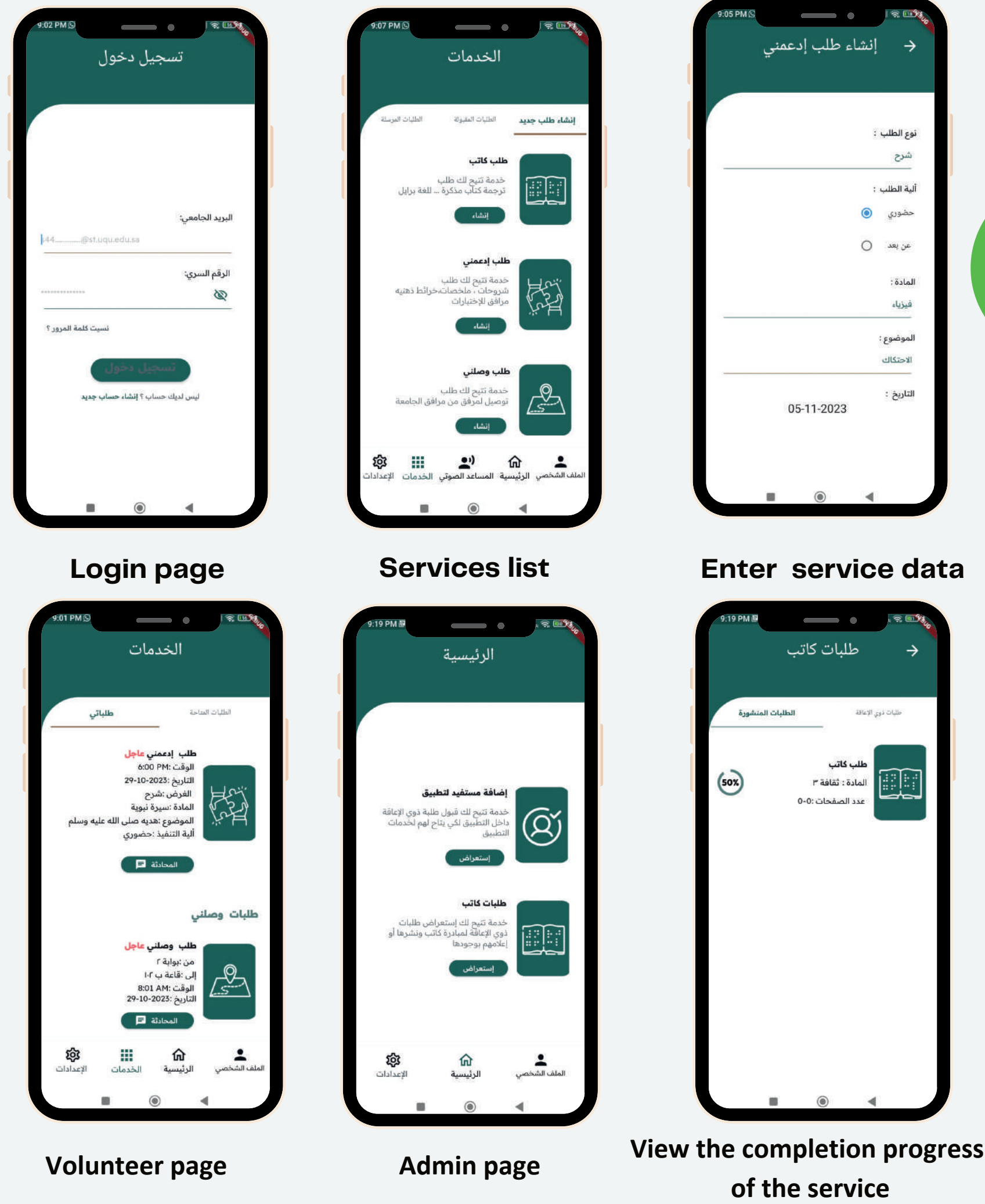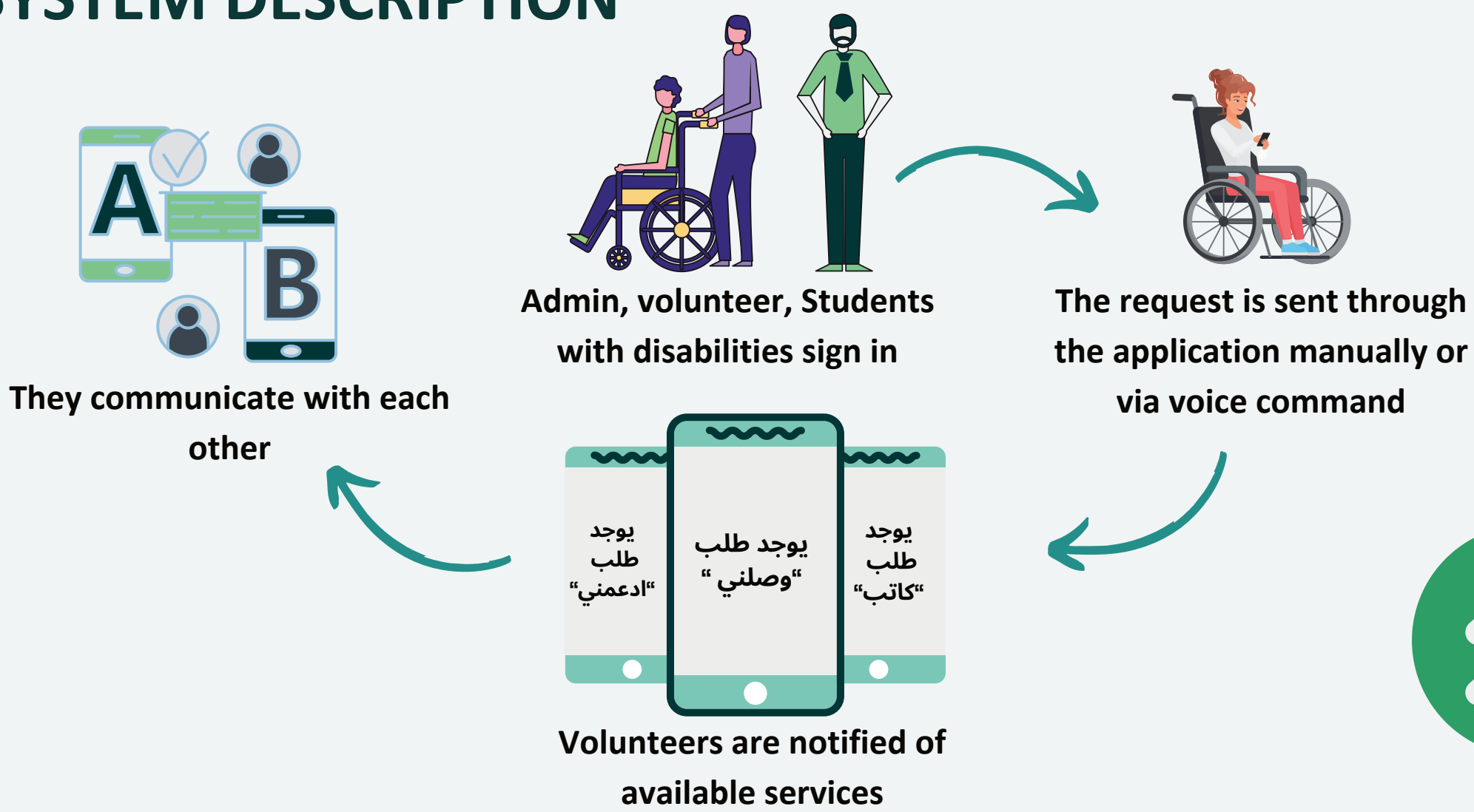| REQUIREMENT	Gathering	Analysis	Draw UMLs	
DESIGN	Architecture	Database	Prototype	
IMPLEMENTATION	Model	Interfaces	Database	integration
TESTING	Unit	Integration	System	Acceptance

OBJECTIVES

1. Providing accompaniment costs for Students with disabilities
2. Using students' free time to volunteer
3. Creating a digital system for the Ghali Centre

RESULTS

Login page

Services list

Enter service data

Volunteer page

Admin page

View the completion progress of the service

SYSTEM DESCRIPTION

They communicate with each other

Admin, volunteer, Students with disabilities sign in

The request is sent through the application manually or via voice command

يوجد طلب "ادعمني"   يوجد طلب "وصلني"   يوجد طلب "كاتب"

Volunteers are notified of available services

TOOLS

Overleaf, Jotform, TensorFlow

FUTURE WORK

CONCLUSION

Our application has the ability to build bridges of communication between Students with disabilities and able-bodied Students. It is easy to use and is supported by artificial intelligence to receive requests via voice recognition, and its' accuracy rate has reached 70%. We hope that this system will be implemented to make the world a better place for everyone.