



Project ID:  
UQU-CS-2022F-27

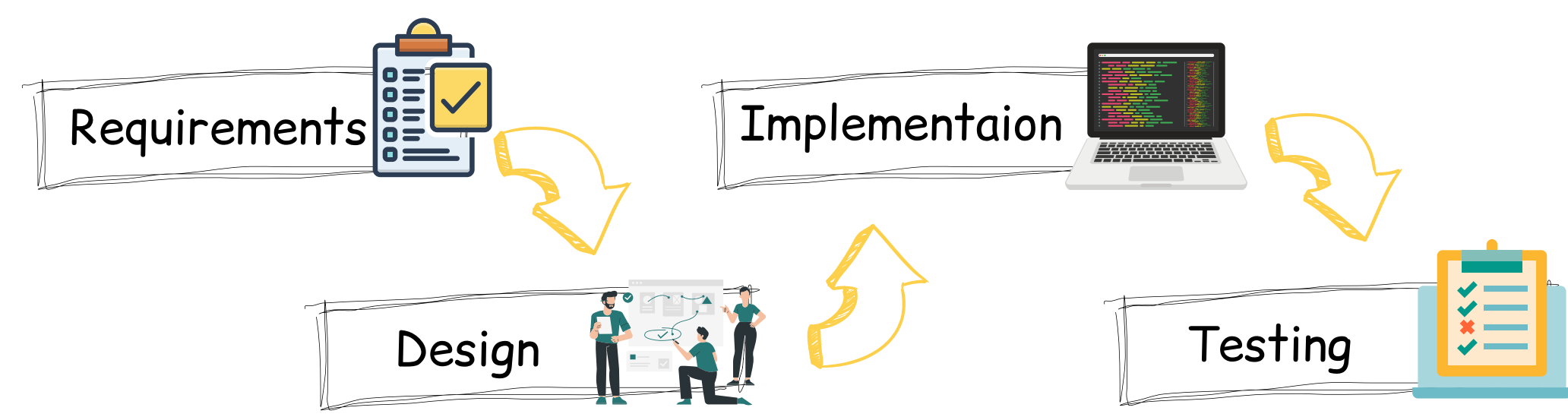
## Introduction

Education is the foundation on which people's life depends, and it is a significant part of life. The community's number of students in public schools is very large, about 5 billion students, according to the Ministry of Education in Saudi Arabia in 1440. It increases every year, so the student's parents face daily difficulties when they pick up their children because of the traffic they face in their schools.

## Abstract

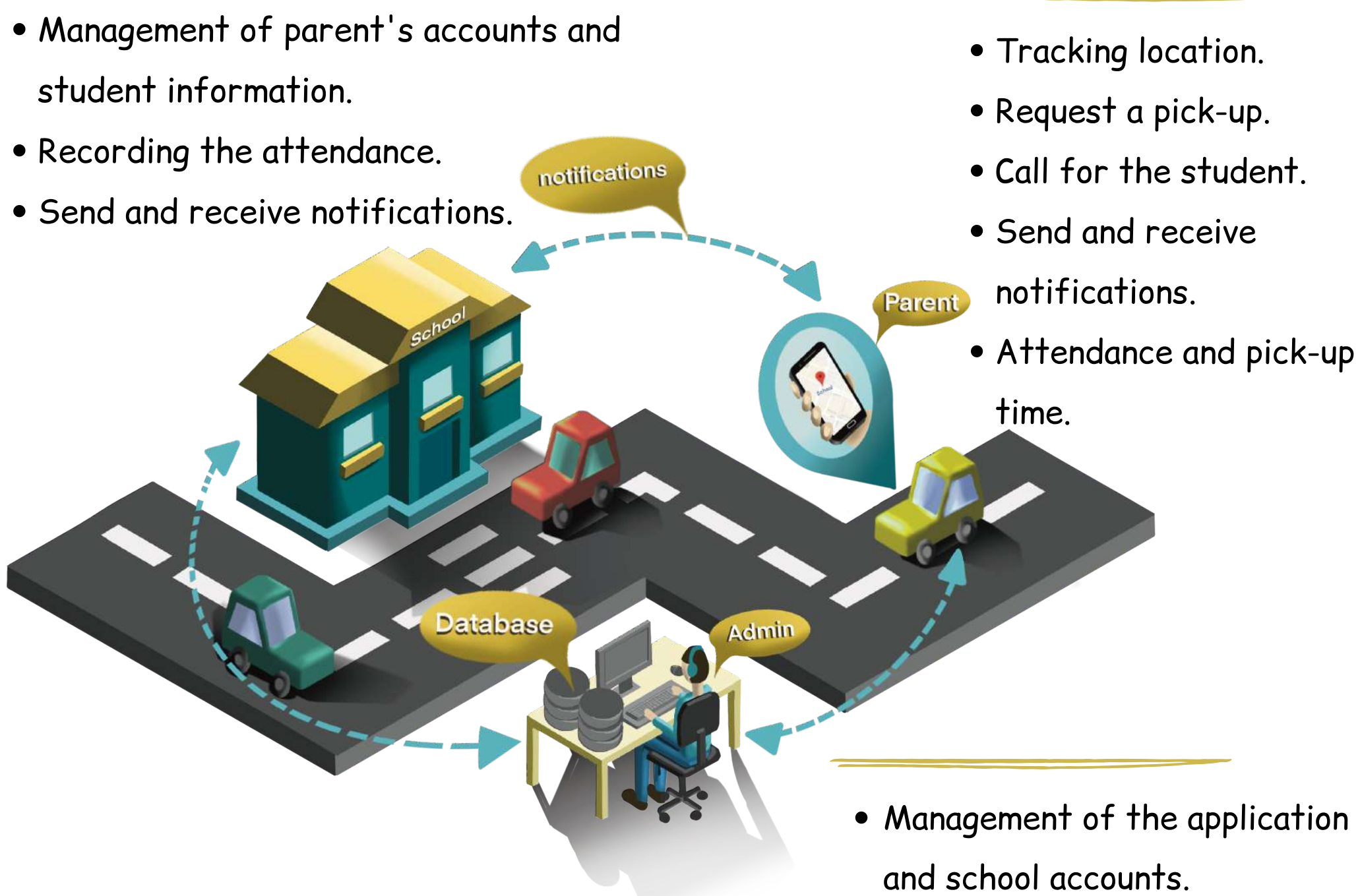
Nowadays. The pick-up process is carried out disorganized, draining parents a lot of time and effort, and having difficulties communicating with the school. The Sarfa application reduces traffic congestion in public schools, making the pick-up process much more organized. So the parents can take out their children without any trouble with traffic congestion, saving their valuable time and reducing accidents, and offering the children safety.

## Moethodology



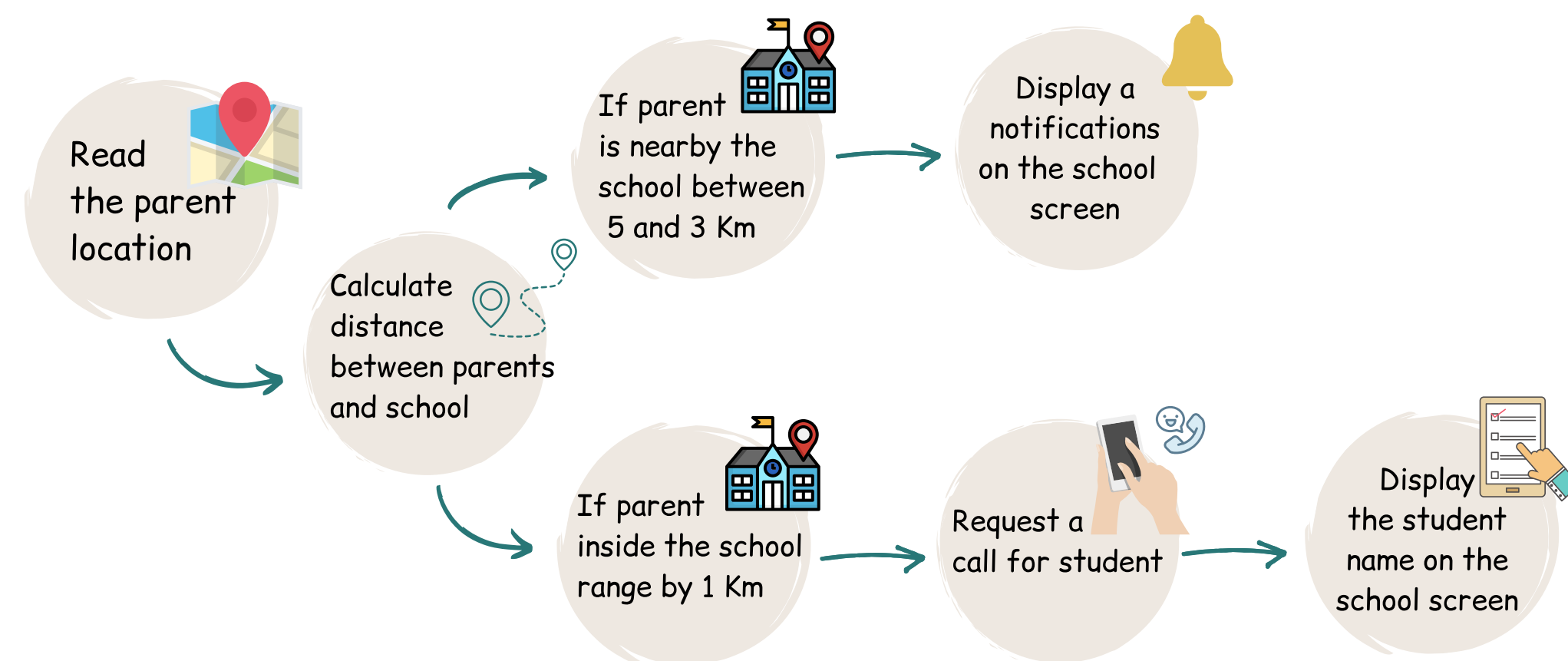
Waterfall methodology

## Application Functionality

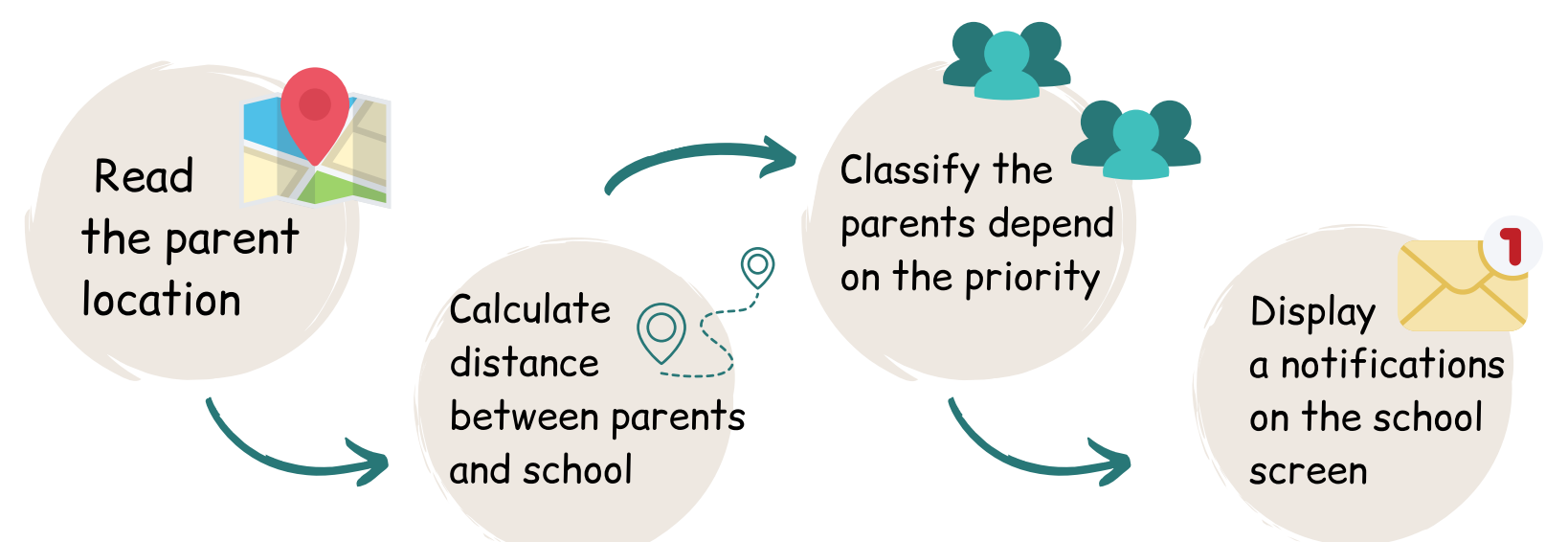


## Proposed Solution

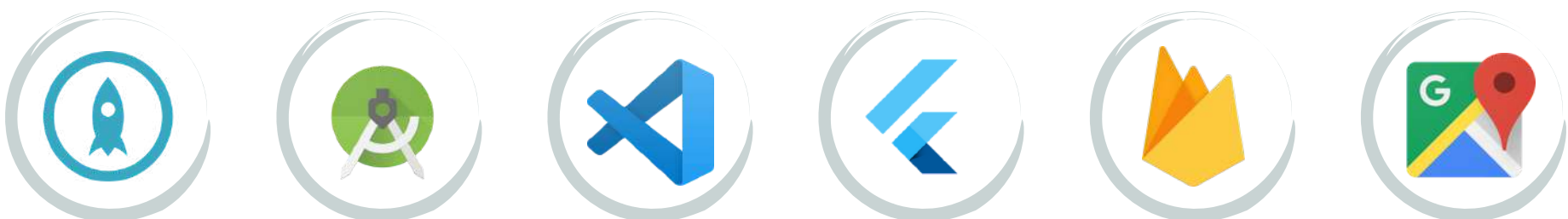
### Pickup improvement :



### Priority managning:



## Tools



## Conclusion

In this project, we worked on a system which is The Sarfah System, an application for Android phones that reduces traffic congestion in public schools. It proposes an algorithm that makes the pick-up process much more manageable. It is a beneficial solution for issues such as the school traffic congestion we have always faced and car accidents in front of schools, Losing children, and complex communication between the parent and the school. Our application serves admins, Schools, and parents.

## Future work

- The parent can do guardianship for the children for someone else to pick them up from their school through the application.
- Making a Web-based version for admin and school usage.
- Sending students daily schedules through the application.

