

# MOBILE RESERVATION LIBRARY SYSTEM

## ADVISOR

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## PROJECT MEMBERS

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# Contents

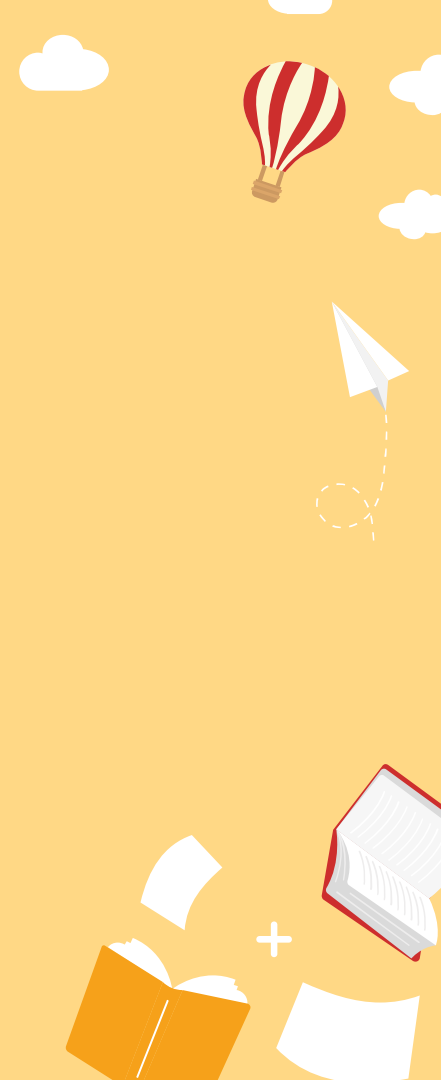
- **Problem**
- **What is Mobile Library Reservation System?**
- **Why MLRS is Necessary?**
- **Previous Similar Works and Contribution**
- **Solution**
- **Technologies**
- **What Happens After MLRS?**
- **User Interface Design**
- **Conclusion**
- **References**



# Problems



- **Waste of time**
- **Loss of library cards**
- **Difficult to access**
- **Wait in line**
- **Cannot control all libraries in city**



# What is MLRS?

MLRS is a mobile library reservation system. This project aims to prevent the users from waiting in the library queue by making a reservation in advance and to enable them to choose the table they want to work on.



# Why MLRS is Necessary?

Easy to Access  
Library Always



**Not Need  
Library Card**

Not Waiting in  
Line



Avoiding Waste  
of Time





# Previous Similar Work

PROJECT NAME	AREA	ACCESS	AIM OF PROJECT	PRIVACY	QR CODE
Hong Kong University of Science and Technology Library in China	Library	Web Based	Study Room Reservation for Groups	X	✓
ODEON E-ticket - ODEON Cinemas in UK	Cinema	Web/Mobile Based	E- Ticket for Movies	✓	✓
Hospital Reservation System in Turkey	Hospital	Web/Mobile Based	Appointment from Hospital	✓	X
QR Code Train Ticket Booking in India	Train	Web/Mobile Based	Booking for Train Ticket	✓	✓

# Solution

## Developing a mobile application that:

Cares about user privacy

Accessible by using mobile phone



Providing reservation opportunity regardless of  and 

Removes the library card with the use of QR code

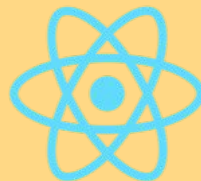
Viewing the occupancy rate of libraries in the city



# Technologies



firebase



React Native



androidstudio



android



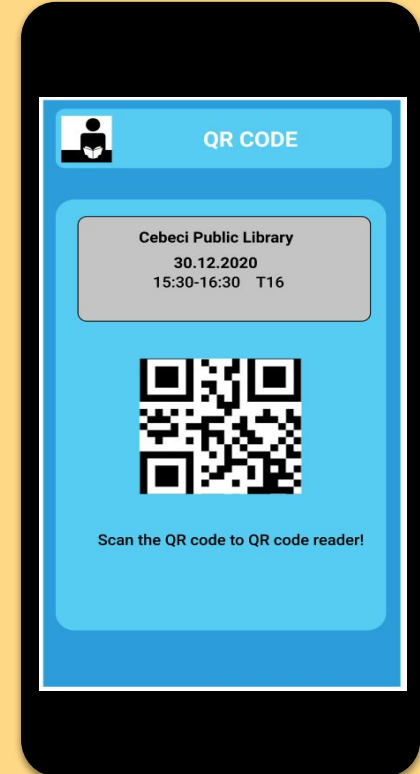
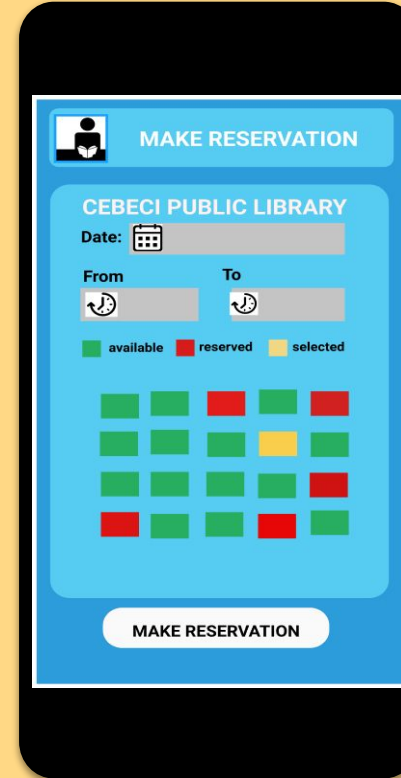
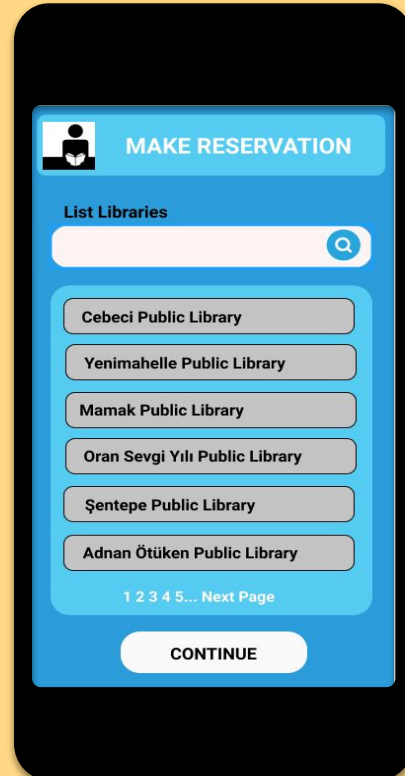
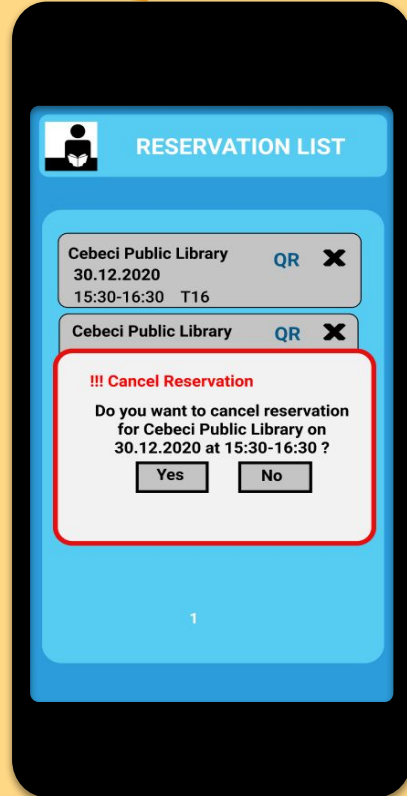


# What Happens After MLRS?




- ❑ Not waiting in the library queue.
- ❑ Many reservations can be made easily without going to the library.
- ❑ Reservation cancellation.
- ❑ Not carrying a library card.
- ❑ Providing security with personalized QR code.

# User Interface Design - Library Member





# User Interface Design

 Librarian


 MENU

Welcome to  
MOBILE LIBRARY  
RESERVATION SYSTEM



 List Reservations



 Edit Profile

Admin

 CHANGE LIBRARY STATUS

CEBECI PUBLIC LIBRARY

Date:  
From  To 


Time Slot:  
From  To 

Status:  


Open



Closed

SAVE CHANGES

 LIBRARY LIST

List Libraries





Cebeci Public Library  

**!!! Delete Library**  
Do you want to delete Cebeci Public Library?  

Yes

No

Adnan Ötügen Public Library  

1 2 3 4 5... Next Page



## Conclusion

As a result, we will be able to make reservations easily and quickly from the library we want with our project, which we developed by examined previous similar working.

In addition, since this application will be running on many operating systems, it will also appeal to a wide audience.





# Work Plan

			01.10.2020-07.10.2020	08.10.2020-14.10.2020	15.10.2020-21.10.2020	22.10.2020-28.10.2020	29.10.2020-04.11.2020	05.11.2020-11.11.2020	12.11.2020-18.11.2020	19.11.2020-25.11.2020	26.11.2020-02.12.2020	03.12.2020-09.12.2020	10.12.2020-16.12.2020	17.12.2020-23.12.2020	24.01.2020-30.12.2020	31.12.2020-06.12.2021
Start Date: 19/10/2020	ASSIGNEE(s)		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12	WEEK 13	WEEK 14
<b>Literature Review and Planning</b>		<b>Week (1-3)</b>														
Project Proposal and Revision	Beyza Yüksel, Eda Gül Sümer, Burcu Biter															
Literature Review	Beyza Yüksel, Eda Gül Sümer, Burcu Biter															
Preparing Work Load Plan	Beyza Yüksel, Eda Gül Sümer, Burcu Biter															
<b>Software Requirements Specification</b>		<b>Week (4-8)</b>														
SRS Preparation	Beyza Yüksel, Eda Gül Sümer, Burcu Biter															
Web Page Requirements	Beyza Yüksel, Eda Gül Sümer, Burcu Biter															
<b>Software Design Description</b>		<b>Week (8-11)</b>														
SDD Preparation	Beyza Yüksel, Eda Gül Sümer, Burcu Biter															
Preparing Mid-Semester Presentation	Beyza Yüksel, Eda Gül Sümer, Burcu Biter															
Project Website Update	Beyza Yüksel, Eda Gül Sümer, Burcu Biter															
<b>Project Report</b>		<b>Week (12-14)</b>														
Project Report and Presentation	Beyza Yüksel, Eda Gül Sümer, Burcu Biter															





## References

- [1] Hong Kong University Science and Technology Library Blog  
<https://library.ust.hk/blog/2010/11/15/my-account-for-mobile-devices/>
- [2] QR Codes for Study Room Booking System used by Hong Kong University Science and Technology Library [https://www.youtube.com/watch?reload=9&v=8nY3\\_1CI7PE](https://www.youtube.com/watch?reload=9&v=8nY3_1CI7PE)
- [3] ODEON E-Tickets <https://www.odeon.co.uk/e-ticket/>
- [4] CDAS Mobile Application for IOS <https://apps.apple.com/tr/app/mhrs-mobil/id589804718>
- [5] MHRs Mobile Application for Android  
<https://play.google.com/store/apps/details?id=tr.com.innova.fta.mhrs>
- [6] UTS - Centre for Railway Information Systems <https://apps.apple.com/in/app/uts/id1357055366>
- [7] QR Code for Train Ticket Booking <https://www.irctchelp.in/qr-code-for-train-ticket-booking/>



**THANK YOU FOR  
LISTENING**

