



King Fahd University of Petroleum and Minerals

College of Computer Science and Engineering

COE300: Principles of Computer Engineering Design

Progress Report 3

By:

Osama Bujwaied 201661700

Ali Al-Janbi 201615180

Taqi Al-Ajmi 201614820

For:

Dr. Yahya Osais

Assistant Professor

Descriptive Abstract

The objective of this report is to exhibit several diagrams and model designs to illustrate new kind of access lock system, and to identify our use case, activity, block definition, sequence designs mechanism for building this system.

25 April 2020

Table of Contents

MODEL DESIGN	3
1. Use case diagram	3
2. Activity diagram	4
3. Block definition diagram.....	5
4. Sequence diagram	6
Appendices	7
Meeting Notes.....	7

List of Illustrations

Figures

Figure 1: Use Case Diagram 1	3
Figure 2: Use Case Diagram 2.....	3
Figure 3: Activity Diagram	4
Figure 4: Block Definition Diagram	5
Figure 4: Sequence Diagram	6

3. MODEL DESIGN

3.1. Use Case Diagram

Figure 3 shows the use case diagram of our project. There two actor who may interact with the system, which are the user and the owner.

The user who has an access will be able to open the door lock , see the record of user information and receive a warning if someone try to break the lock.

The owner will have the ability to share the access to the user. He will be able to give an approval to the user to use the access control system. The owner can see the all the records of sharing information, he can also know if the sharing access was not successful.

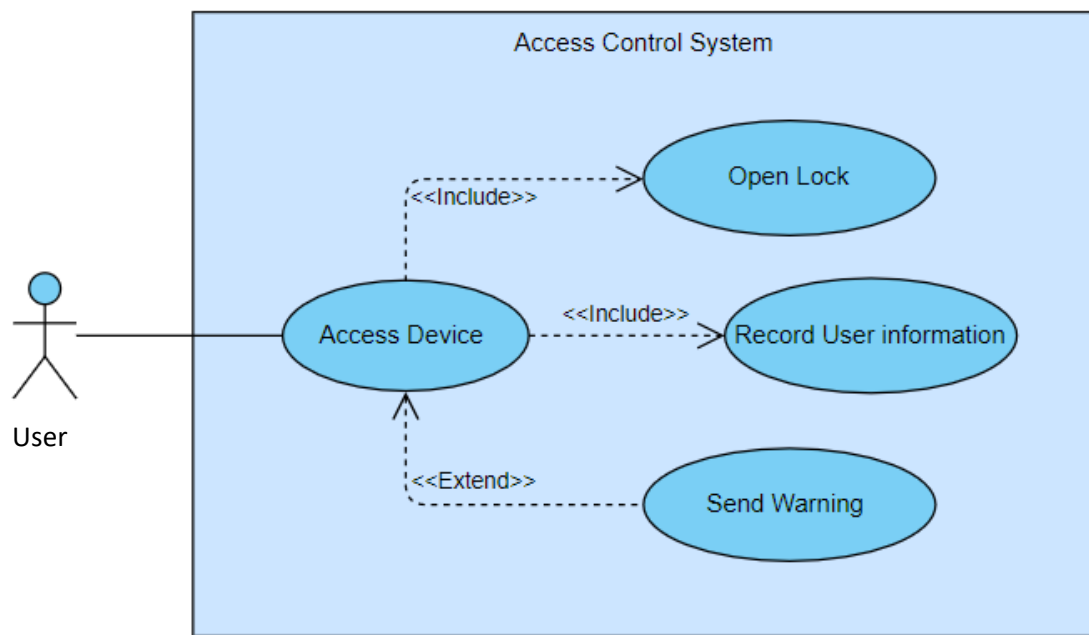


Figure 1: Use Case Diagram

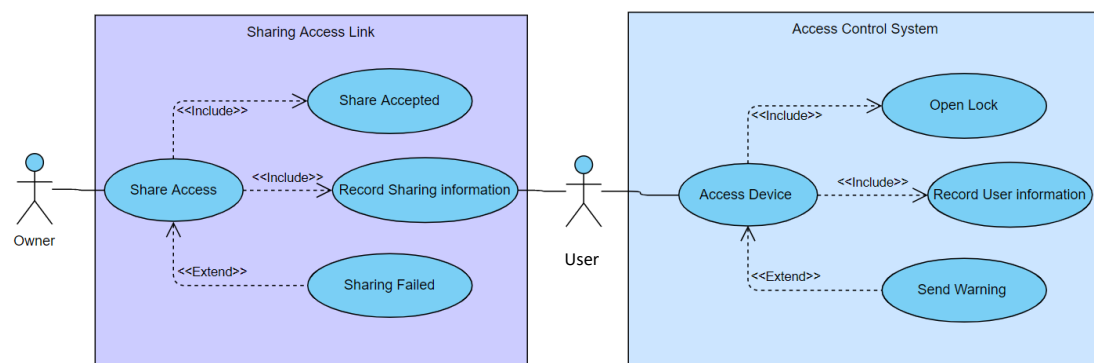


Figure 2: Use Case Diagram

3.2. Activity Diagram

Activity diagram explain what a use case should do to in order to achieve its objectives. Figure 4 shows the activity diagram of Access control system (ACS) use case.

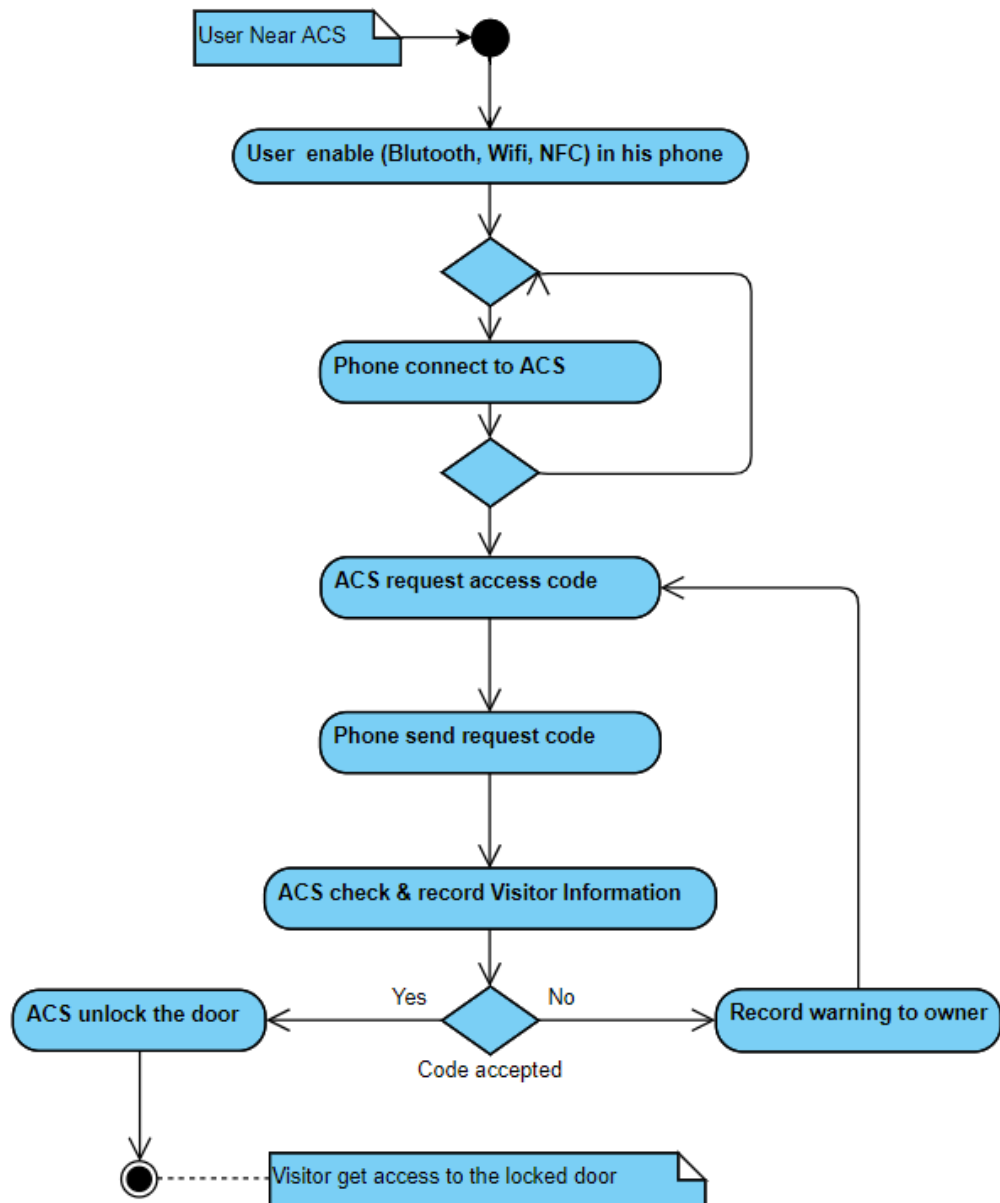


Figure 3: Activity Diagram

3.3. Block Definition Diagram

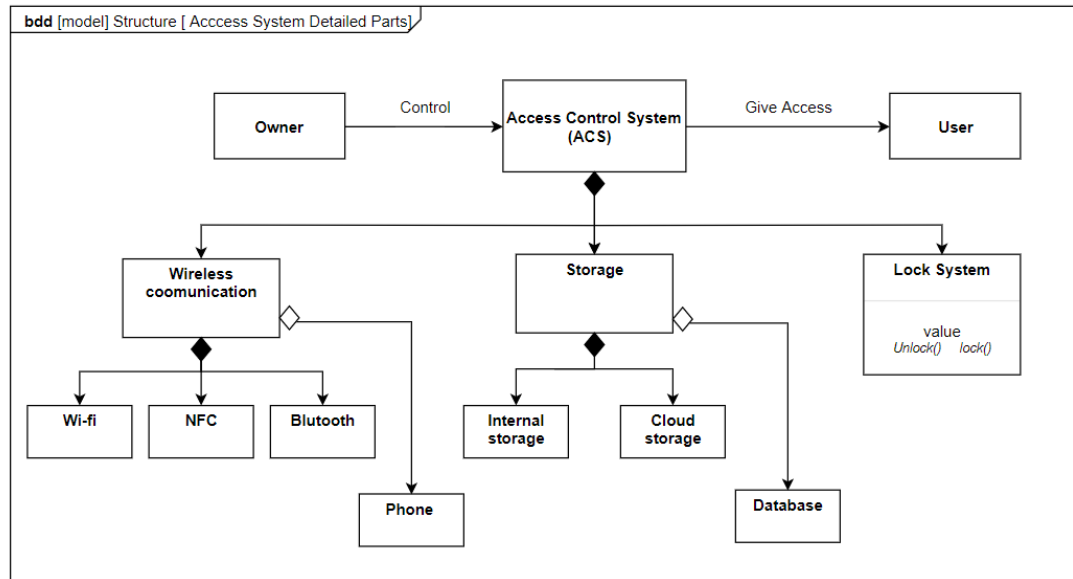


Figure 4: Block Defintion Diagram

3.4. Sequence Diagram

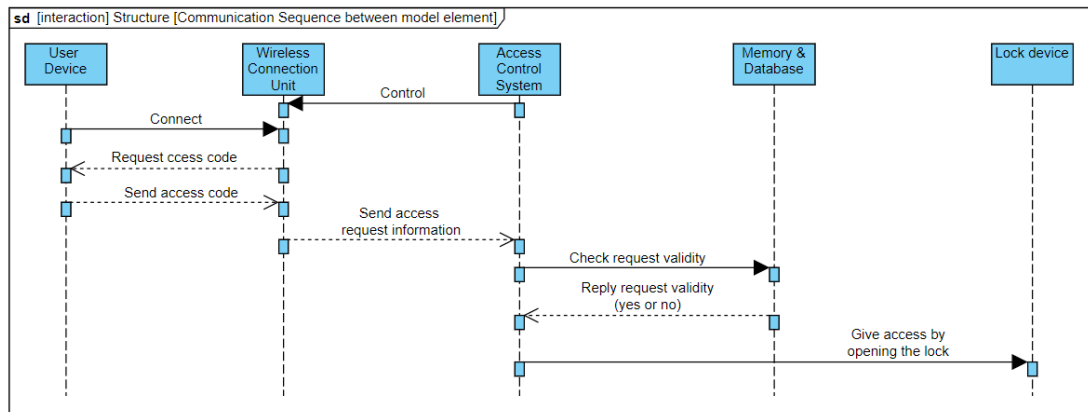


Figure 5: Sequence Diagram

4. Appendices

4.1. Meeting Notes

Meeting Notes					
Meeting No.	Day & Date		Start Time	End Time	
2	Wednesday 15/4/2020		11:55 AM	1:00 PM	
Purpose	Distribute the work among group members and assigning the responsibilities to each one for progress report 3.				
Agenda	1- Discuss works and diagram distribution. 2- Modify the use case diagrams. 3- Create the Activity diagrams. 4- Create the Block definition diagrams. 5- Create the sequence diagrams. 6- Discuss and create design model 7- Design the report file layout. 8- Discuss the diagrams mechanism of the product.				
Attendees	1- Osama Bujweied 2- Ali Aljanbi 3- Taqi Alajmi				
Discussion	1- Osama will organize the report document. He will also work on making the use case and activity diagram. 2- Taqi will work on writing description for the diagrams. 3- Ali will also work on making the sequence and block defintion diagram.				
Action Items	Task Name	Person(s)	Description	Deliverables	Deadline
	Report layout	Osama	organize the report document		2020/4/22
	Making 1 st & 2 nd diagram	Osama	Making use case and activity diagrams		2020/4/22
	Making 3 rd & 4 th diagram	Osama	Making sequence and block definition diagrams		2020/4/29
	Describe 1 st & 2 nd diagram	Taqi	writing description for use case and activity diagrams		2020/4/29

		Ali, Taqi				
--	--	-----------	--	--	--	--