INTERNET OF THINGS PROJECT

*CONTACT TRACING APPLICATION*

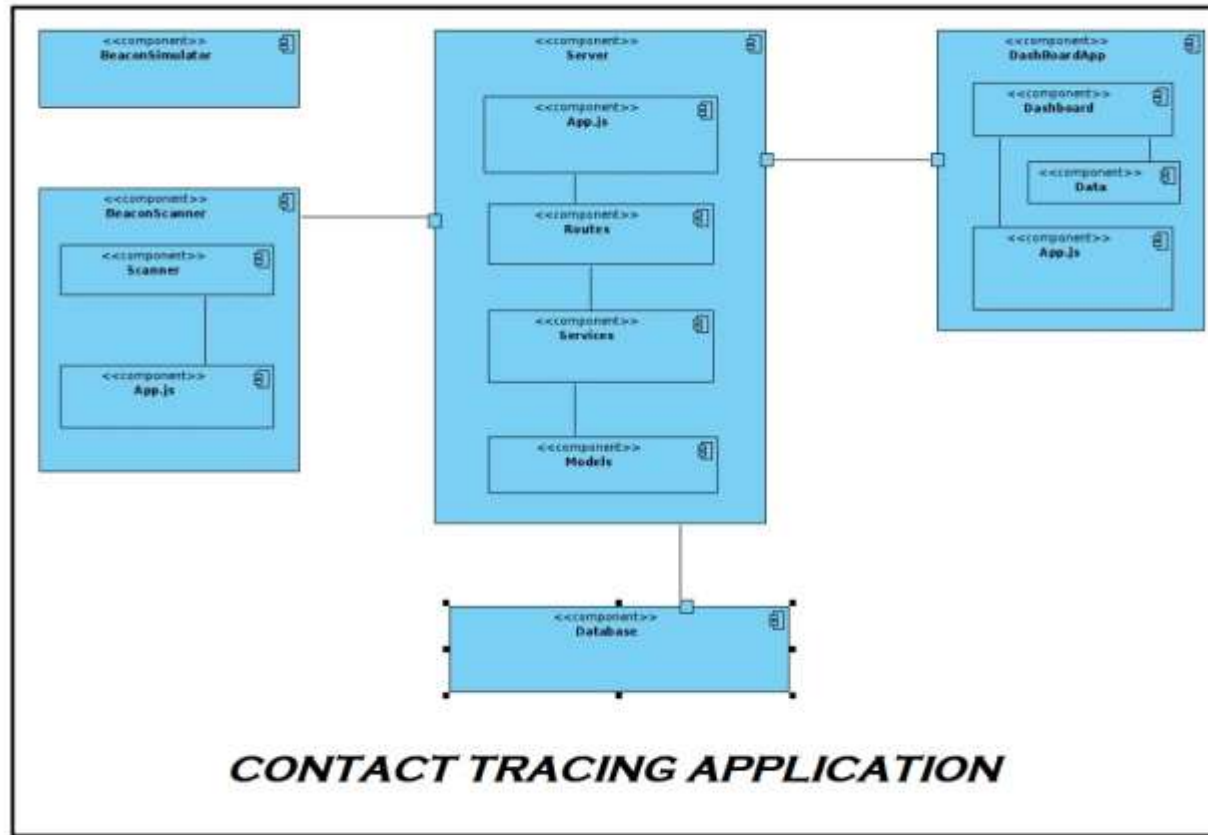NAME: JYOTI DHIMAN

MATRICOLA:4853961

INTRODUCTION

The goal of the project is to make an application that counts the number of people entering a room in building to maintain social distancing. The application consist of 5 main parts:

- Bluetooth Beacon simulator

- Scanner

- Server

- Dashboard
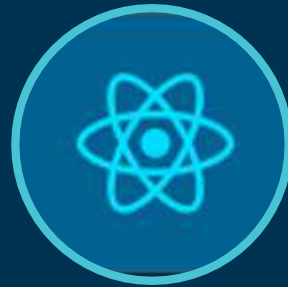
- Database

ARCHITECTURE

COMPONENT DIAGRAM

CONTACT TRACING APPLICATION
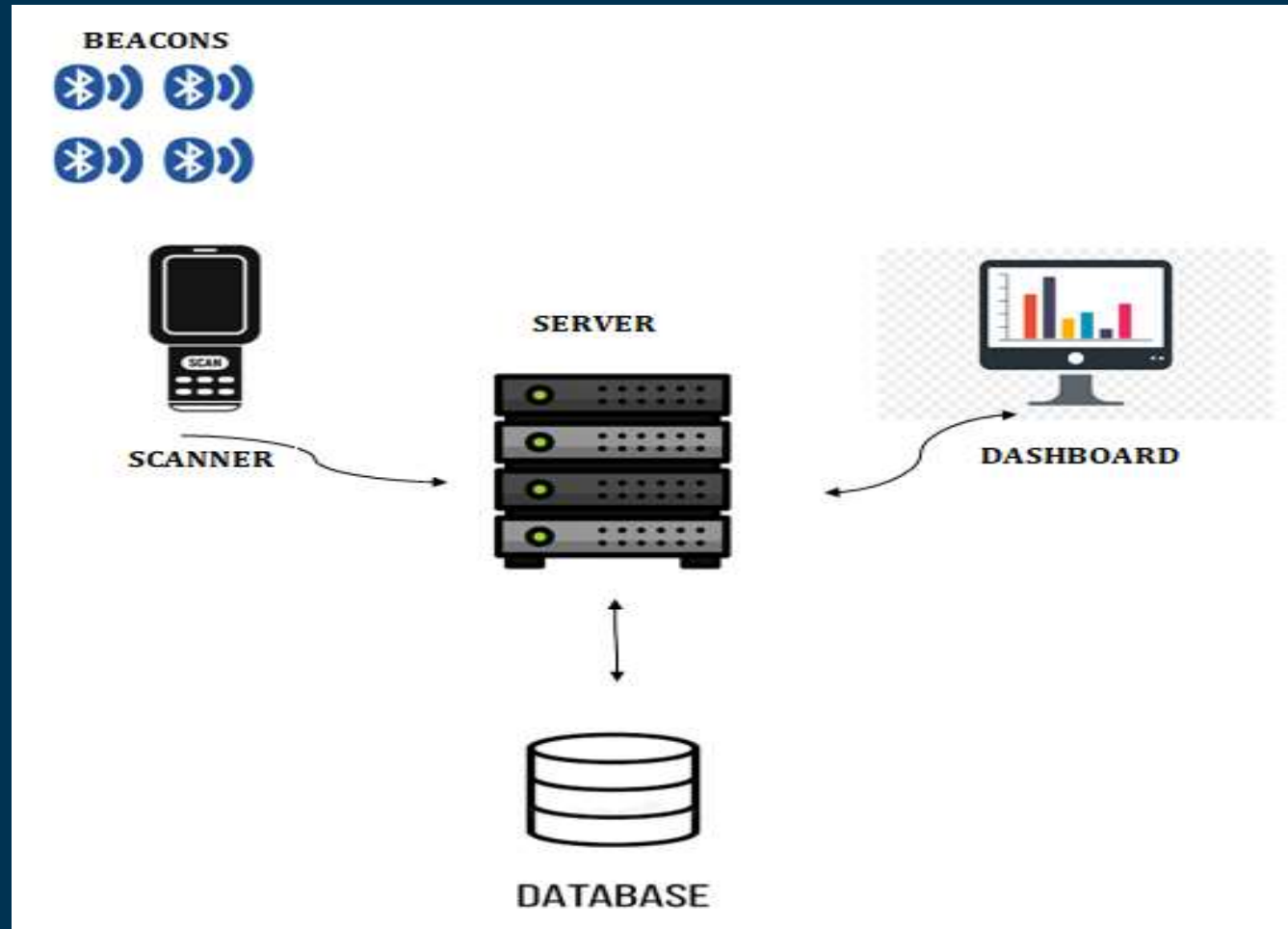
MERN

MONGODB   EXPRESS   REACT   NODE JS

LIBRARIES USED

SIMULATOR	SCANNER	BACKEND-SERVER	DASHBOARD
Noble	Node-beacon-scanner	Express	Mqtt
Bluetooth-hci-socket	Mqtt	Mongoose	Recharts
	Bluetooth-hci-socket	Mqtt	Mdbreact
		Mosca	

DASHBOARD
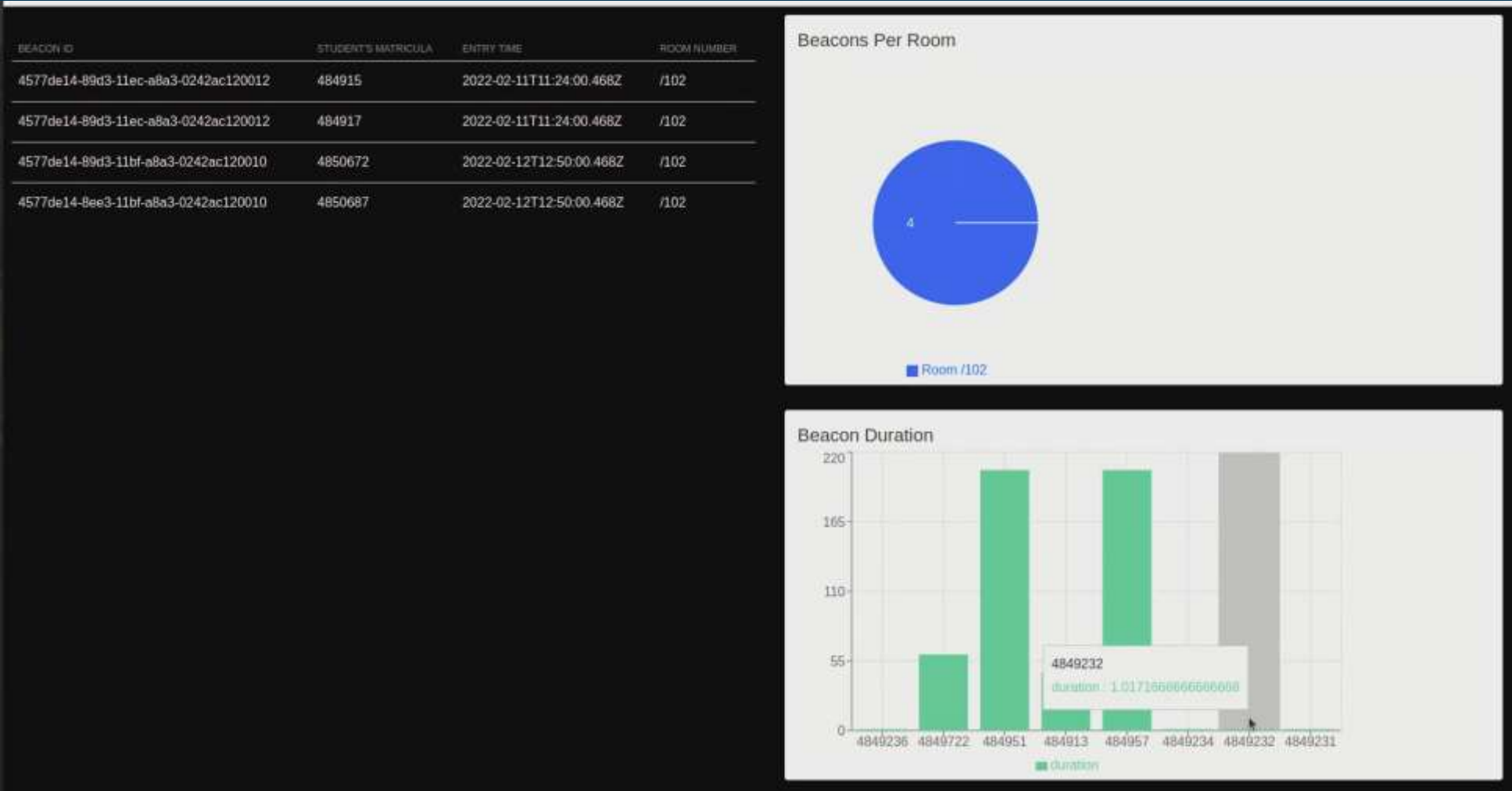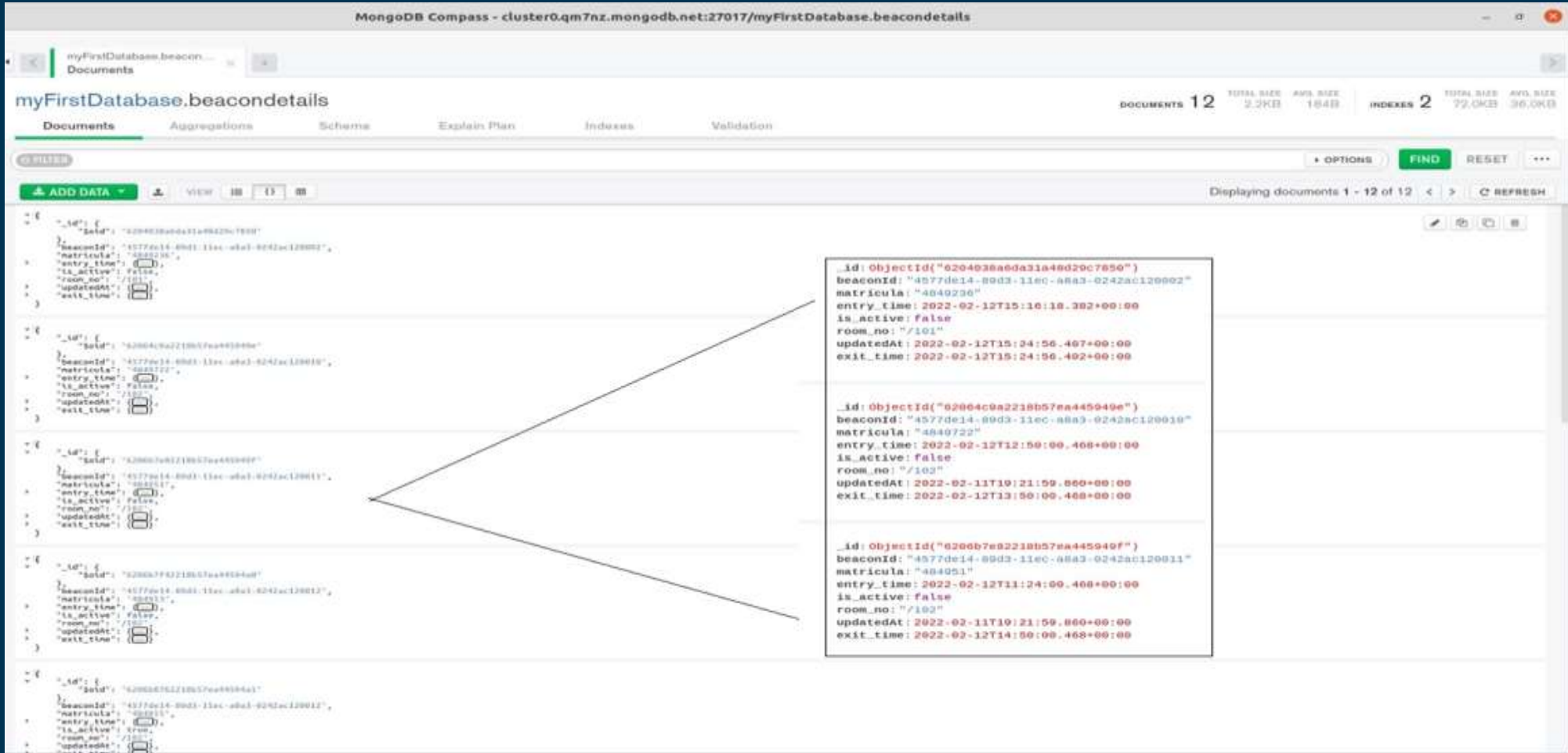
DASHBOARD

DATABASE

DEMO

LINK TO VIDEO:

https://unigeit-my.sharepoint.com/:v:/g/personal/s4853961_studenti_unige_it/Ebge4o9aw09KrHvOGs2997ABARGbhk29cbgM9qH9Uc6LMg?e=K42Zn3

FINAL THOUGHTS

❑ Good learning experience
❑ Learned about a lot of new technologies.
❑ Contact tracing app concept is very relevant nowadays.
❑ Bluetooth version compatibility was an issue that I faced.
❑ Version compatibility issue with certain modules.

Thank You