

Documentatie

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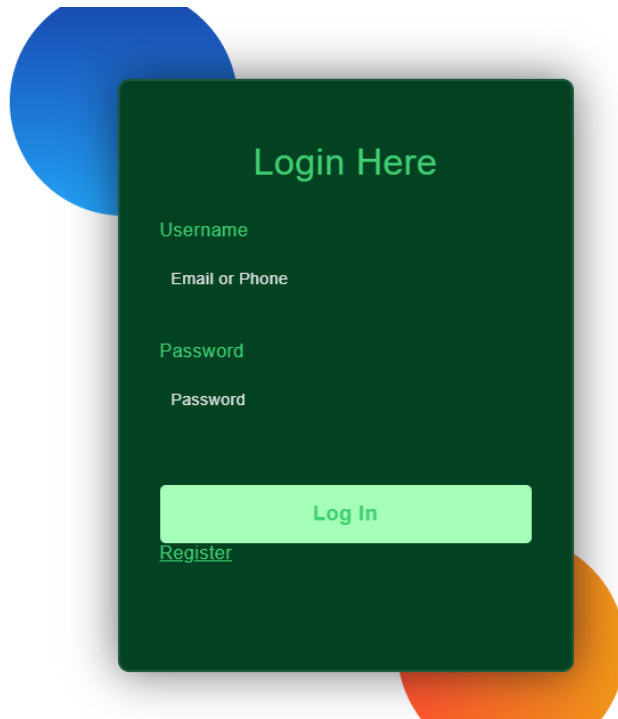
1 Content

1.....	Content
1.....	Introduction
2.....	How the app looks like
2.....	Implementation
3.....	Database
4.....	Deploy
4.....	Conclusion

2 Introduction

An online platform that connects users with his smart devices. This monitoring devices store data in a database that is stored in the cloud. We guarantee really good protection against anyone that wants to steal your data. An admin takes care of you and your devices so you can just use the devices without worrying about anything else.

3 How the app looks like



This is the login page, we also provide a register page Really important is your user page where you can see your devices, with their informations.

Log Out			
Description	Address	Consumption	Username
aproximativ	strada persuasiunii	55	vlad
sad	strada dsad	55	vlad
grgsf	ghghd	3	vlad

4 Implementation

Node.js lets developers use JavaScript to write command line tools and for server-side scripting. The functionality of running scripts server-side produces dynamic web page content before the page is sent to the user's web browser. Consequently, Node.js represents a "JavaScript everywhere" paradigm, unifying web-application development around a single programming language, rather than different languages for server-side and client-side scripts.



The project is build using node.js for the backend part, also using typescript because of the fact that solves a lot of errors by using types.

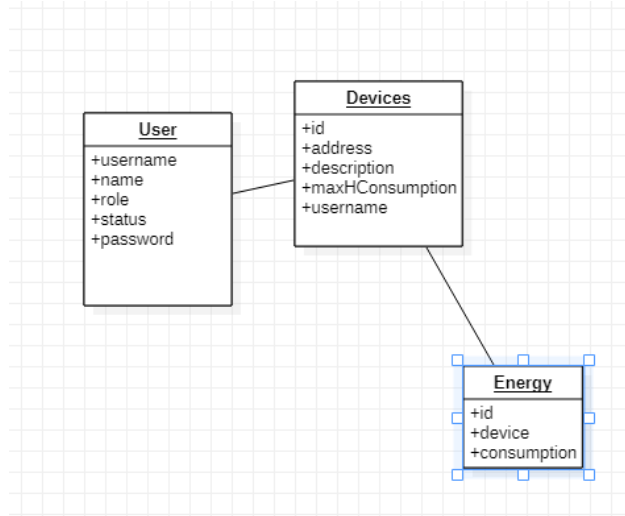
Using mongoDB and more important, using mongo atlas, our database is already located in the cloud, so we do not have to deploy it.

For frontend was wased angular, being one of the best frameworks for this kind of job.



5 Database

We have 3 tables that look like that:



6 Deploy

The deploy was made with docker

Docker can package an application and its dependencies in a virtual container that can run on any Linux, Windows, or macOS computer. This enables the application to run in a variety of locations, such as on-premises, in public (see decentralized computing, distributed computing, and cloud computing) or private cloud. When running on Linux, Docker uses the resource isolation features of the Linux kernel (such as cgroups and kernel namespaces) and a union-capable file system (such as OverlayFS) to allow containers to run within a single Linux instance, avoiding the overhead of starting and maintaining virtual machines. Docker on macOS uses a Linux virtual machine to run the containers.

7 Conclusion

This was a really interesting project, i have learned and master a lot of new skills!