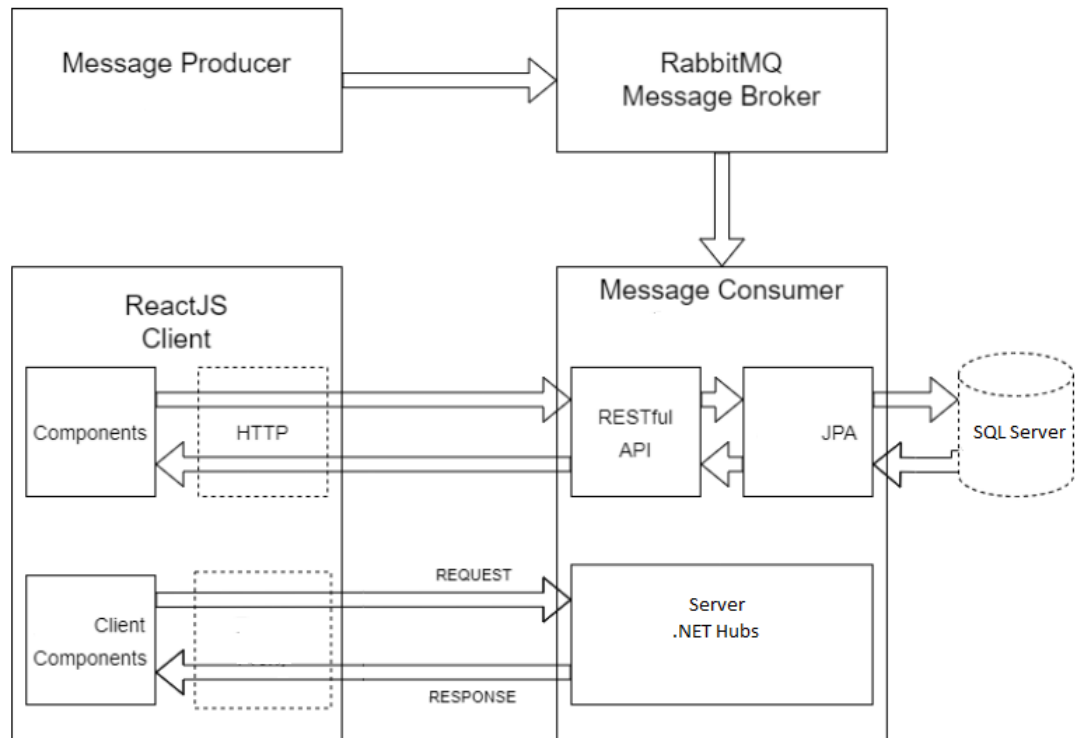


## DISTRIBUTED SYSTEMS

### Assignment 3

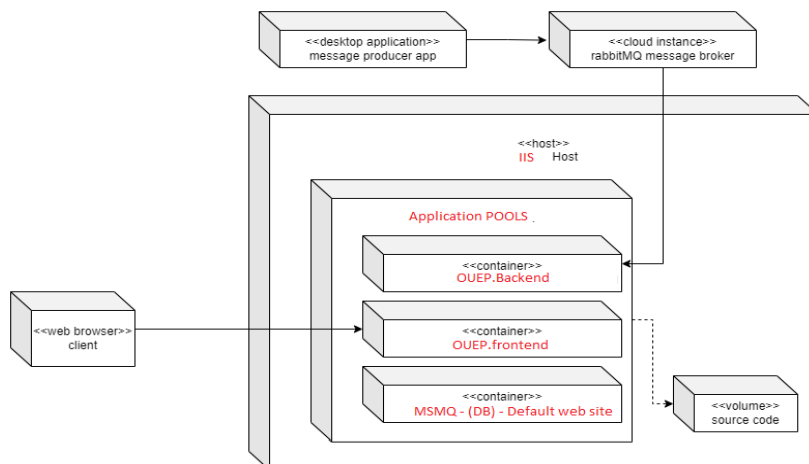
#### Chat System for Client Support

#### Conceptual architecture of the distributed system.



Figură 1 Diagrama conceptuală a arhitecturii aplicației dezvoltate

#### a) UML Deployment diagram.



Figură 5 Diagrama de deployment a aplicației

**b) Readme file containing build and execution considerations.**

Calculate the energy consumption against any user's device according to the respective Date.

Architecture:

Roles: Two Role is this App

- 1) Admin
- 2) Client

Responsibility:

Admin:

- To Create,Read,Delete,Update the User
- To Create,Read,Delete,Update the Devices
- Assign the Devices to Particular User
- Add Daily Energy Consumptions against every user devices
- Assign the Role to particular user

Client:

- Can we their devices which admin assigned
- check daily consumption in Barchart by selecting device and Date

How to Run the Project:

Our Application Consist of two parts

- 1) Frontend [ Developed in Angular]
- 2) Backend [ Developed in .NET Core Web APIs]

Frontend:

- 1) Clone the Application By Coping the Url
- 2) Go to 'Frontend' Directory and open it in VS CODE
- 3) Write Command 'npm i --force' in command prompt ( it will install all require packages)
- 4) Run 'ng s' in command prompt

Backend:

- 1) Open the 'Backend' Project in Visual studio
- 2) Goto 'Appsettings.json' and change the Data Source and Database name as you created in your Local SQL Server
- 3) Go Sql Server and open the datavase then go to ASPNETROLE Table and Edit it after that add new Role Admin ,Client
- 4) Then Run the App and put admin username and admin password then you will redirect to your Account of admin
- 5) After that you can create users and device and perform every task as define in portal