Medication Dispenser

Documentation

Assignment 3

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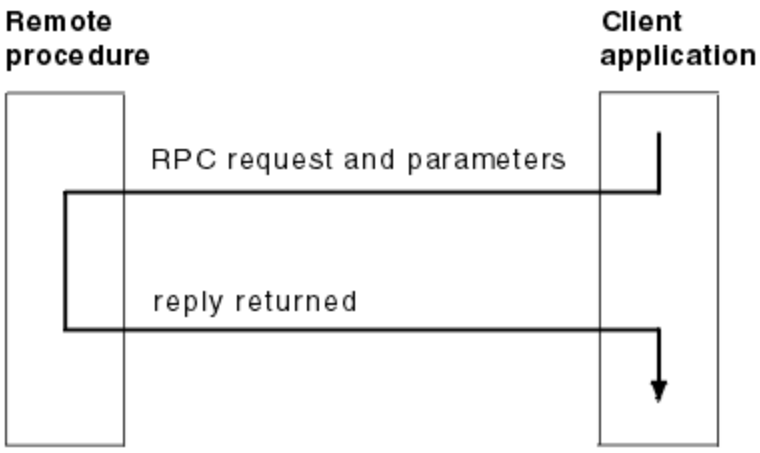
1. Introduction

Remote Procedure Call (RPC) is a protocol that one program can use to request a service from a program located in another computer on a network without having to understand the network's details.

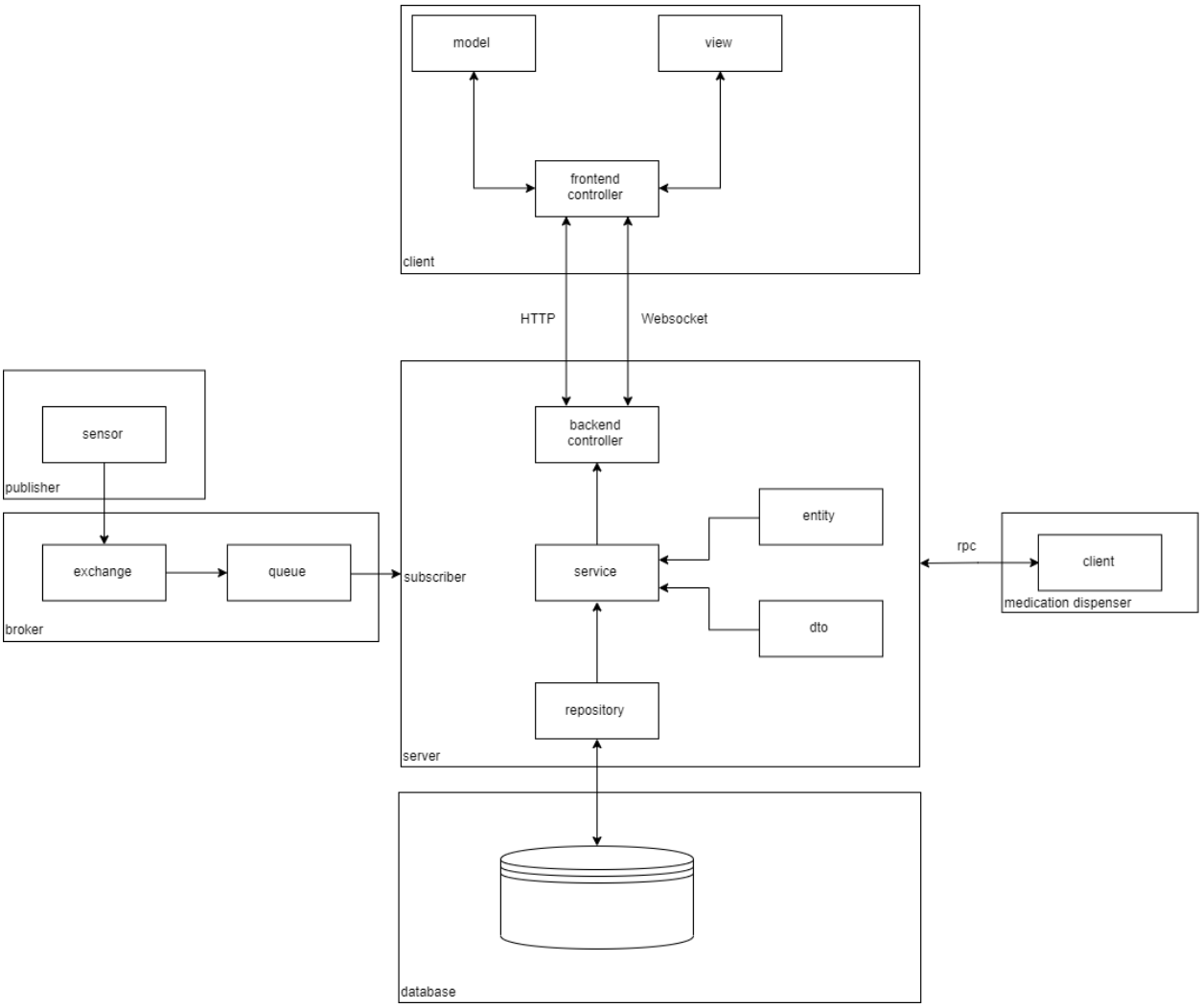
RPC (according to Wiki) '*is when a computer program causes a procedure (subroutine) to execute in a different address space (commonly on another computer on a shared network), which is coded as if it were a normal (local) procedure call, without the programmer explicitly coding the details for the remote interaction'*



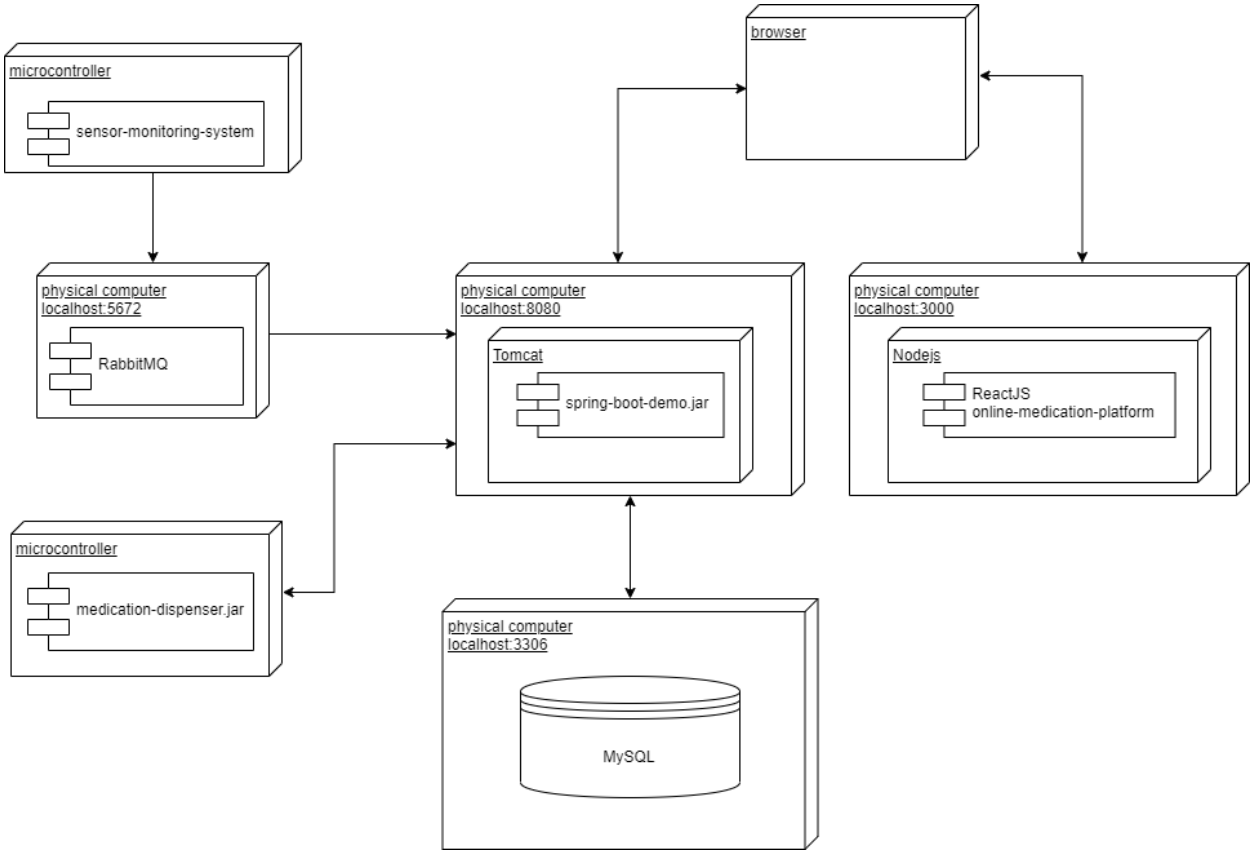
2. Conceptual Architecture

Starting from the previous online medication platform based on a client-server architecture, a new server that listens on other port was created.

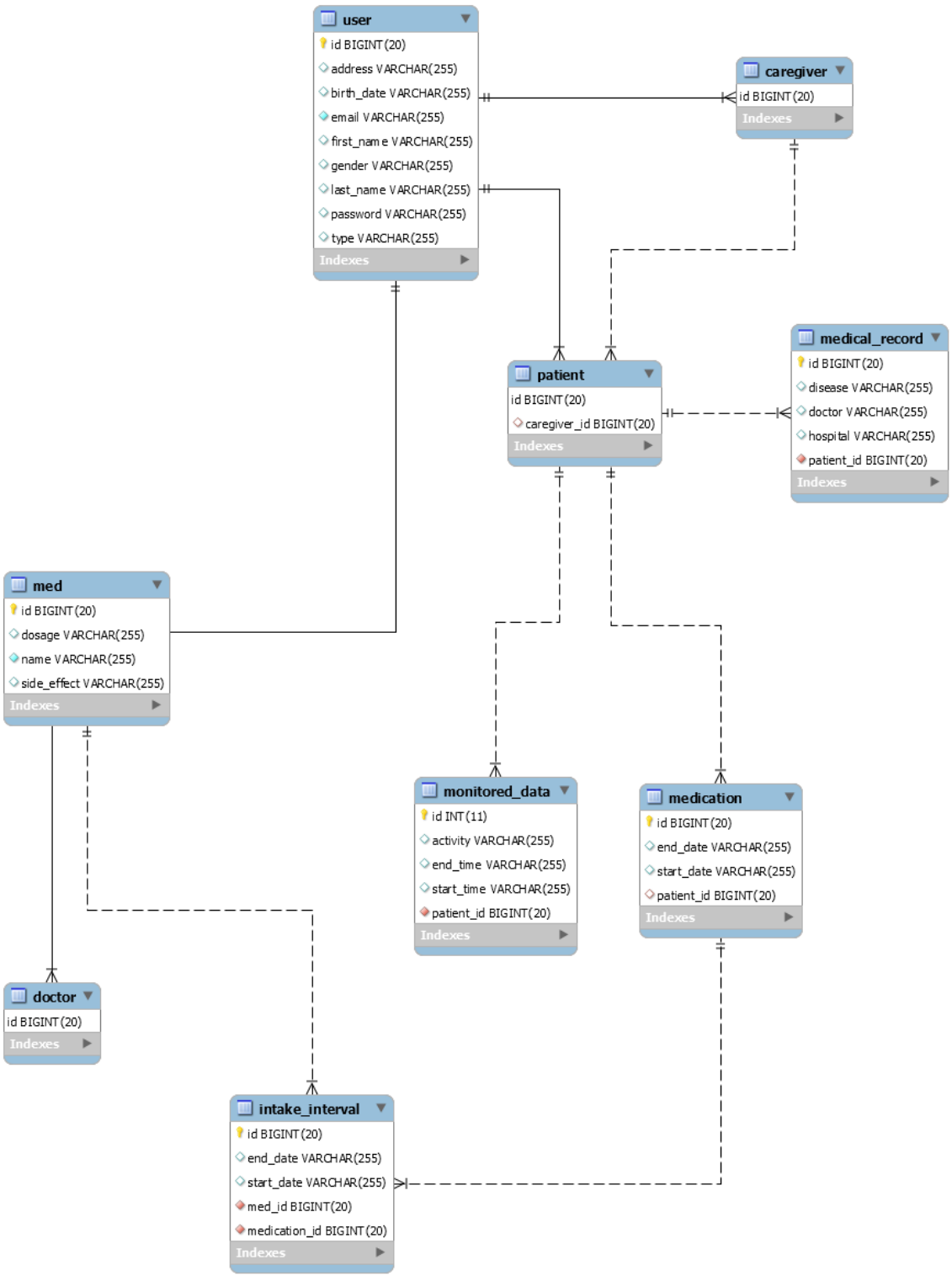
The medication dispenser represents the client and is configured on a separate project with its own GUI. It downloads the medication plan from the server and displays the information. The patient must take the medication at the prescribed interval and press the button. When the button is pressed, it calls the method on the server that sends the confirmation. If the user exceeds the interval, the application calls automatically the method with the corresponding data.



3. Deployment Diagram



4. Database Design



5. Build / Execution Considerations

Steps:

Server

1. Clone the **BitBucket** repository: **git clone**
2. Import the **spring-boot-demo** backend application in IDE (IntelliJ preferred) and let Maven install
3. the dependencies
4. Create the online-medication-platform schema in MySQL
5. Start the backend application

Medication Dispenser

1. Clone the **BitBucket** repository: **git clone**
2. Import the **medication-dispenser** application in IDE (IntelliJ preferred) and let Maven install the dependencies
3. Start the application