Sri Lanka Institute of Information Technology

Application Frameworks (AF)

TECHNICAL REPORT

ONLINE PHARMACY MODULE

Submitted by:

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Introduction

Online Pharmacy systems are being launched due to the need for a destination that is beneficial for all the concerned parties in the health sector such as doctors, patients, pharmacists etc. With our Pharmacy Module, mainly pharmacists (Chief and Assistant) can register and host online pharmacy inventories for the benefit of all the above mentioned concerned parties. Using this system any pharmacy from any location can register and can carry out their day to day tasks very easily and efficiently.

As long as the system functionalities are concerned, in the request management section, the assistant pharmacists can view their stock details and place requests for drugs accordingly. They also can cancel a request placed by them. The Chief pharmacist can view these requests and approve or reject these requests.

When the patient management section is concerned the assistant pharmacist can maintain patient details, create prescriptions for patients,

In the stock management section the chief pharmacist can manage the drug stock information and he can add stock batches to the inventory.

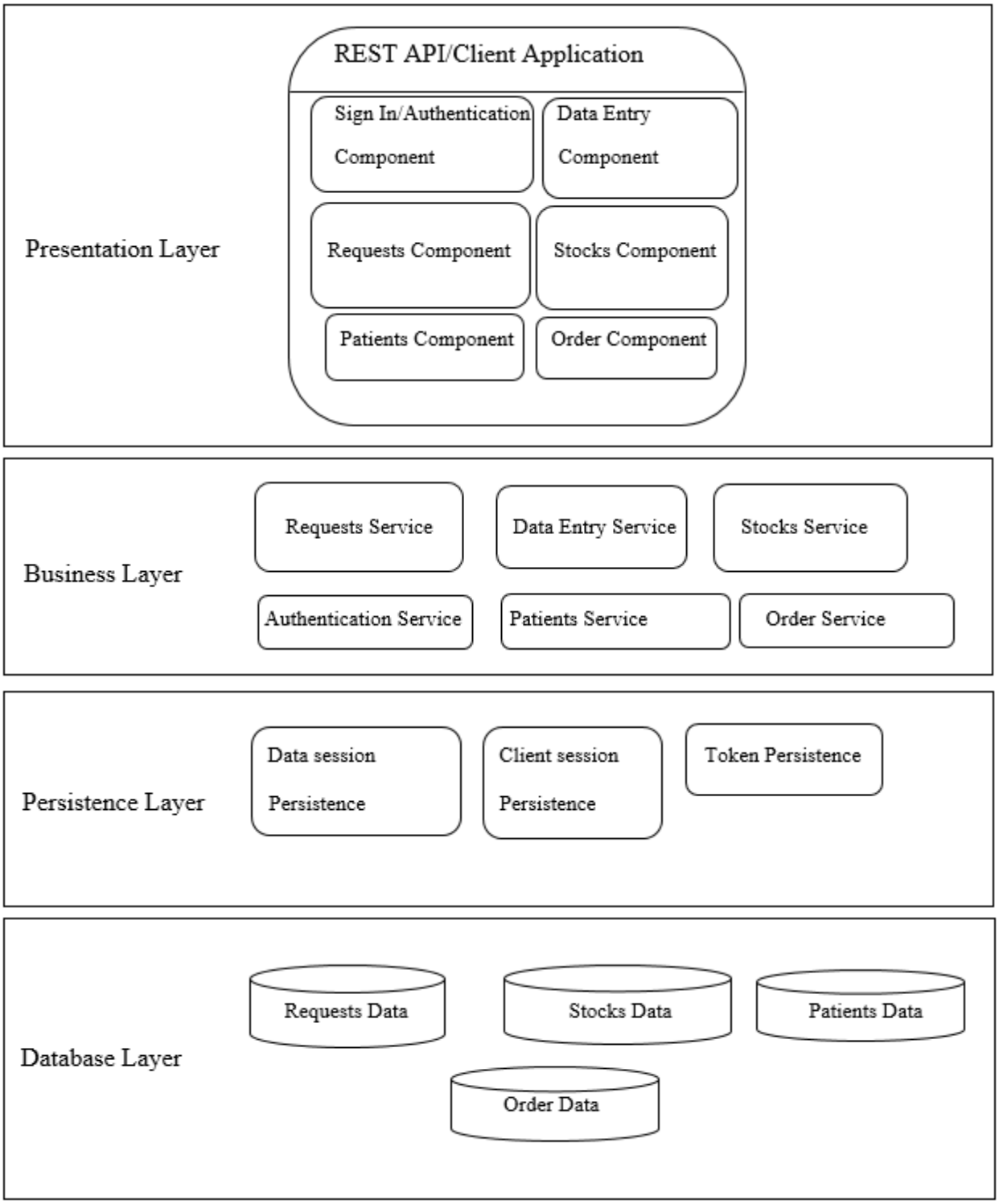
The supplier management section is responsible for helping the chief pharmacist to maintain supplier details and track order information.

In a nutshell the main functionalities of our Pharmacy Module are requests management, patients management, stocks management and supplier management.

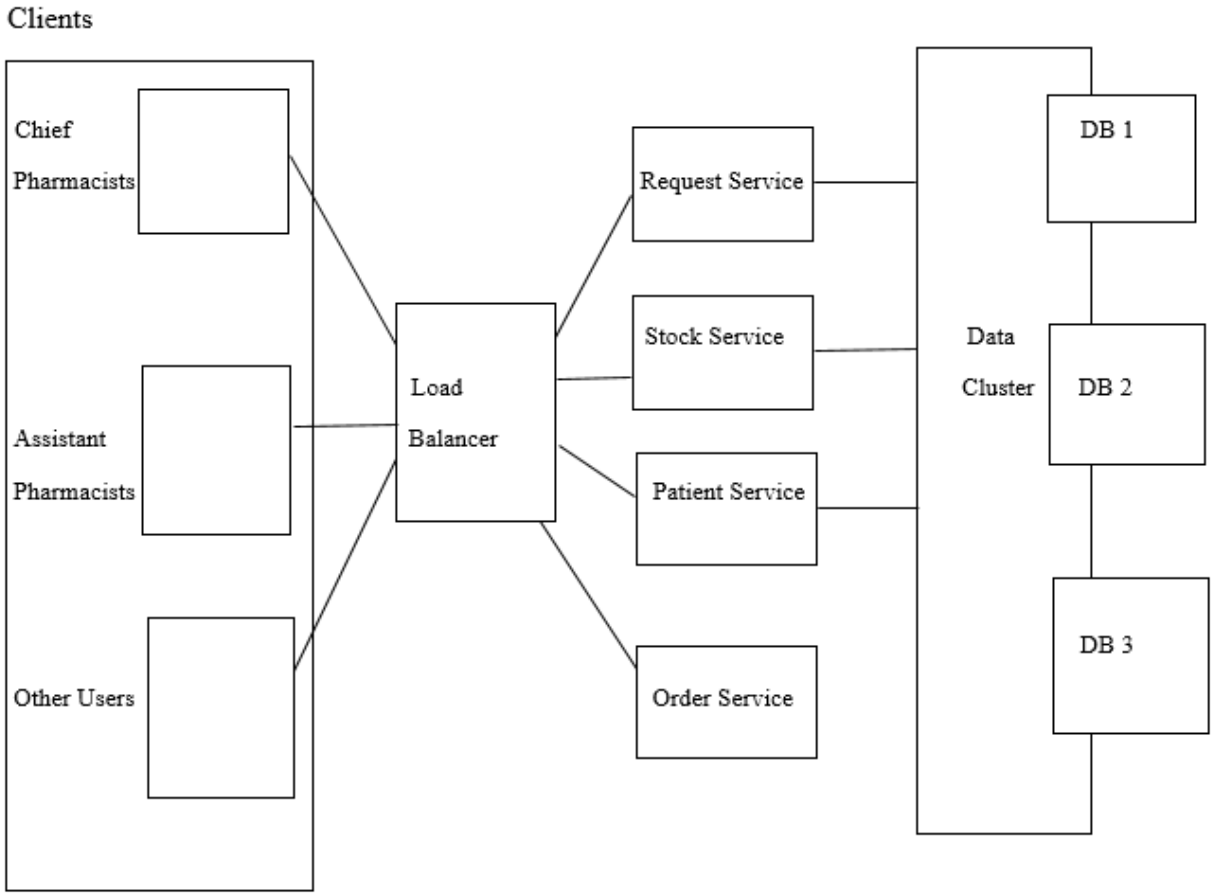
This Pharmacy Module is an attempt to remove the existing flaws in the manual systems of managing pharmacies. This online pharmacy module fulfills the requirements of the pharmacies to carry out their tasks online from any location by just registering with the system. They do not have to go by themselves to service providers or manually request services to fulfill their daily needs. They can perform lots of tasks by just one click after registering with this system.

This system is developed mainly using the MEAN stack (MongoDB, ExpressJS, AngularJS and NodeJS). For parts like authentication mechanisms Spring Boot is used.

Software Architecture Diagram
(Layered Architecture)



System Architecture
(Micro Services Architecture)



Deployment Guide

Restoring Databases

1. Create two databases pharmacy and pharmacy_requests in MongoDB server.
2. Restore JSON dumps in Database folder to the above two databases.

Deploying Microservices

1. Go to Microservices folder. All services are separately available there.
2. If you want to deploy them separately. You can deploy each folder.
3. There are five .bat (Windows shell script) files in root folder. Run each of them. These files will start all the services.

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