Documentation On the Coding Challenge

EC2 Instance : [http://ec2-13-59-5-180.us-east-2.compute.amazonaws.com:8080/](https://www.google.com/url?q=http://ec2-13-59-5-180.us-east-2.compute.amazonaws.com:8080/&sa=D&source=hangouts&ust=1542709783192000&usg=AFQjCNGj2fkbg2VpFH7KgrOCP6IzTec-vg)

1. Ngrok.io Instance: <https://12f462ee.ngrok.io/>

GIT Instance : [https://github.com/aishupartha/IntuitiveSurgical](https://www.google.com/url?q=https://github.com/aishupartha/IntuitiveSurgical&sa=D&source=hangouts&ust=1542695809217000&usg=AFQjCNE0TInwqebTZpadQLxcKMAsd6Ok3A)

REST FUL API EndPoints For EC2 Instance :

API 1 : Users List : <http://ec2-13-59-5-180.us-east-2.compute.amazonaws.com:8080/userlist>

API 2 : Exercise List for User:

<http://ec2-13-59-5-180.us-east-2.compute.amazonaws.com:8080/user/1/exercise>

API 3: Exercise List for User for a Exercise

<http://ec2-13-59-5-180.us-east-2.compute.amazonaws.com:8080/user/1/exercise/59>

REST FUL API EndPoints For Ngrok Instance :

API 1: : <https://12f462ee.ngrok.io/userlist>

API 2: <https://12f462ee.ngrok.io/user/1/exercise>

API 3: [https://12f462ee.ngrok.io/user](%22)/1/exercise/59

DESIGN DIAGRAM FOR THE PROJECT

Model View Controller Architecture is followed where Client Request is Handled by dispatcher servlet and the request is sent to Controller Which serves the API endpoint request .

The Model is created to reuse the objects created from the database.

DAO or the Repository is the layer which makes all the Database connection and fetches Data and is passed to the Service and the Service fulfils the request and send the response to Controller

A view can be any output representation of information, such as a chart or a diagram. Multiple views of the same information are possible

DAO Repository

Handler Mapping

Model View

View Resolver

(Angular JS UI APP)

Tomcat Embedded Server

Service

Controller

Spring Boot Application

Dispatcher Servlet

PostGres Database

Amazon EC2 Instance : Amazon Linux

CLIENT REQUEST