Activity Tracker

Activity tracker is a web service build using grpc and protobuf.This application deals with creating new user and adding/updating new activities with user.The activities which can be added are Read,Play,Sleep and Eat.

Activity tracker service consist of 2 service:-
1)Activity Service
2)User Service

1)Activity Service:This service is build using protobuf file(activity_service.proto).This service is contains 6 endpoints or functions.Following are the endpoints available:-
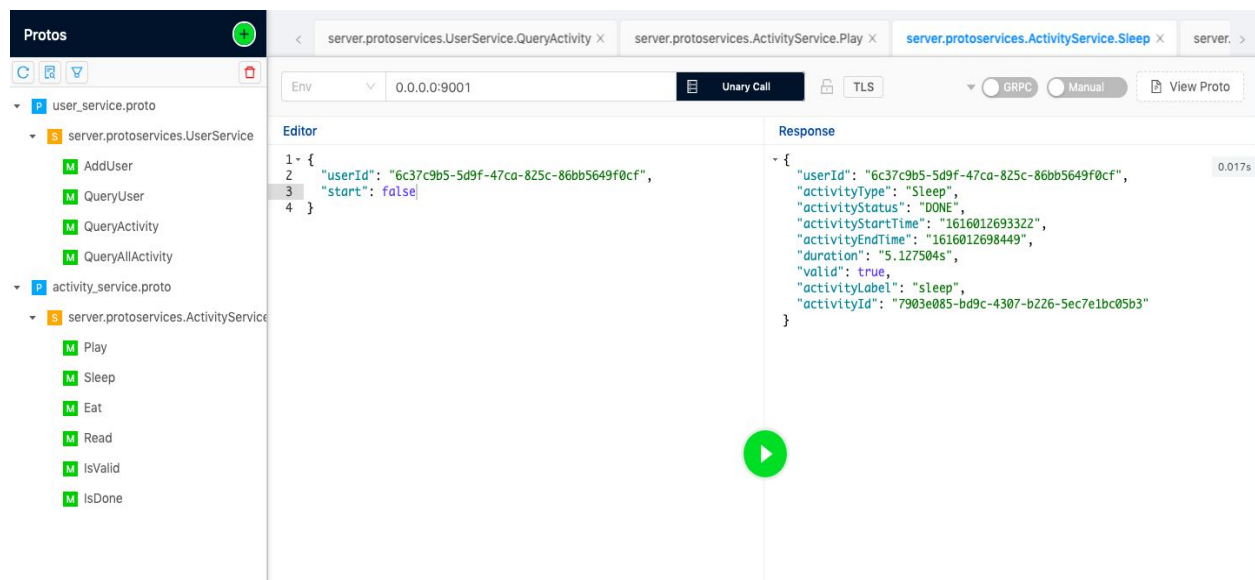
      -Play : This end point starts and stop play activity of user.

      -Sleep : This end point starts and stop sleep activity of user.

      -Eat : This end point starts and stop eat activity of user.

      -Read : This end point starts and stop read activity of user.

      -IsValid : This end point check that activity is valid or not and returns boolean value.True means activity is valid and false means activity is invalid.

      -IsDone : This end point check the activity is completed or currently running.Done means completed and Active means activity is still going on.

2)User Service:This service is build using protobuf(user_service.proto).This service contains 4 end point:-

      -AddUser :This will add new user to application.

      -QueryUser: This will query user details and returns user details.

      -QueryActivity: This will query user's activity details using user Id and activity Id.

      -QueryAllActivity: This will query all the activities of user using user Id.

How to use the application?

1)As activity tracker service is a web service so to access the end point you need to install Bloom RPC application.

2)After installing bloom Rpc application you need to click on + sign in protos section and browse to both the proto files.

3)Once you and loaded both the proto files you are good to go.After loading the proto file bloom rpc will look like following:-

4)To run the service open the terminal,go to the path of application and simply type following:
go run main.go

5)As we are not using any database so data is not persistent once the application is shut down so before calling and end point we need to create a new user by using AddUser end point.

6)Once user is created you can use the user Id and use other end points.