

# REST API Assignment

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## Introduction

- REST is acronym for Representational State Transfer
- It is architectural style for distributed hypermedia systems and was first presented by Roy Fielding in 2000.
- It is a set of rules that developers follow when they create their API

## Chi

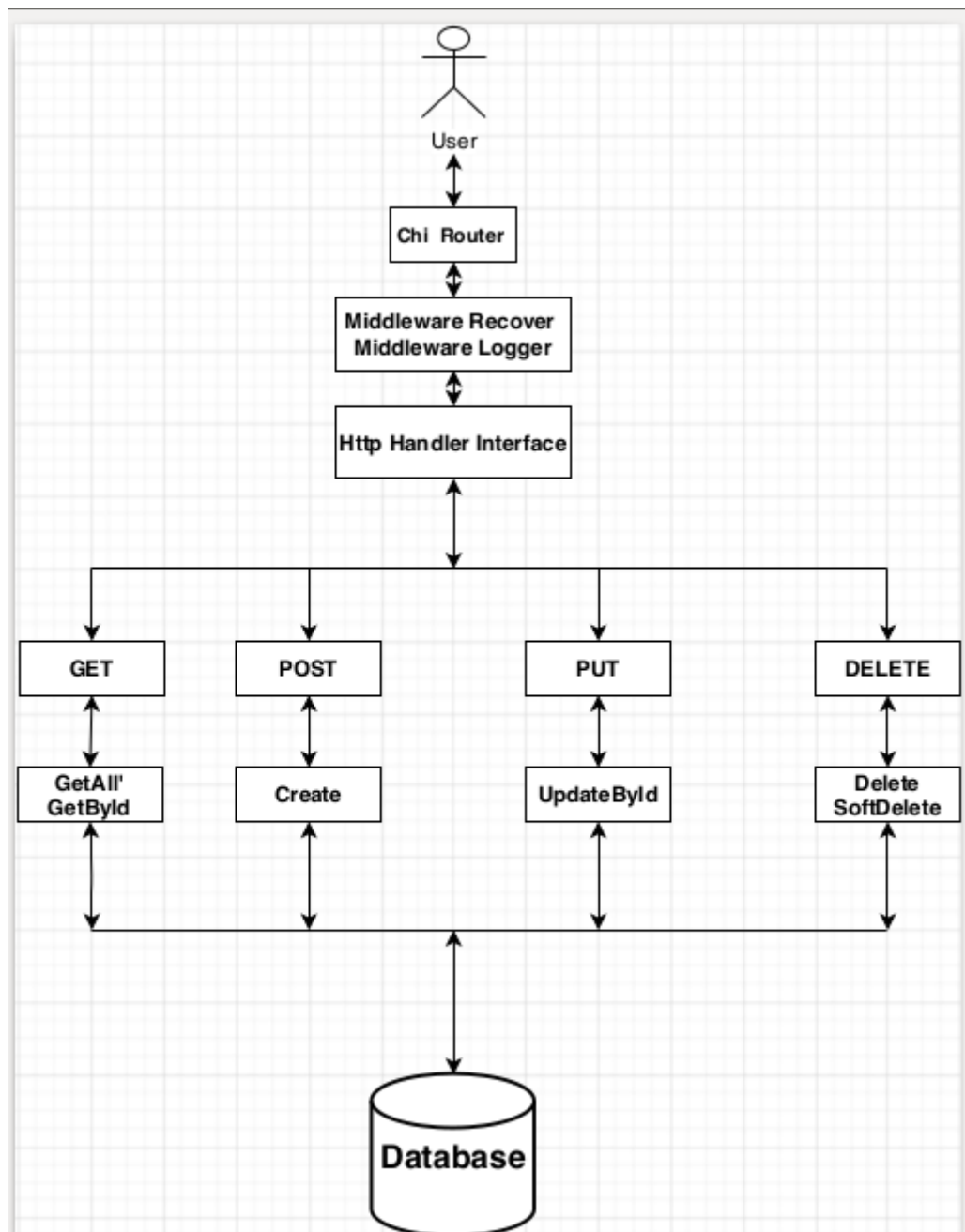
- chi is a lightweight, idiomatic and composable router for building Go HTTP services.
- It's especially good at helping you write large REST API services that are kept maintainable as your project grows and changes.
- Chi is built on the new context package introduced in Go 1.7 to handle signaling, cancelation and request-scoped values across a handler chain.

## Overview Of Assignment

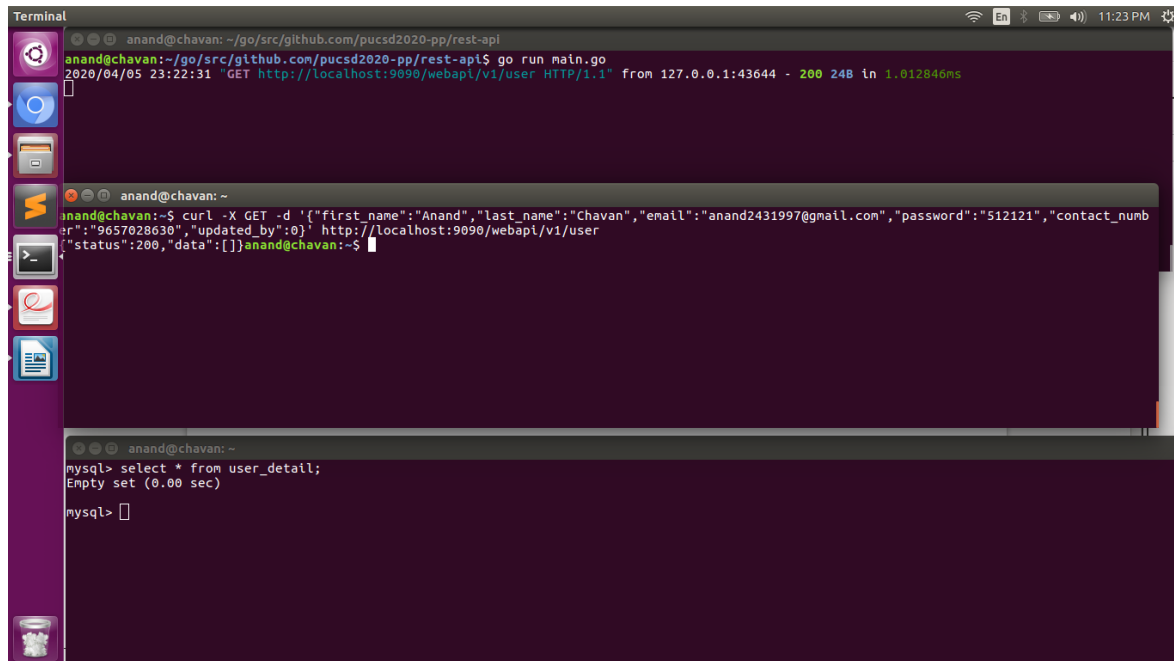
- Challenge 1
  - Write the execution flow diagram of given code
- Challenge 2
  - Run the service and perform get/put/delete/update operation on user object
- Challenge 3
  - Design UI for given problem

## Challenge 1

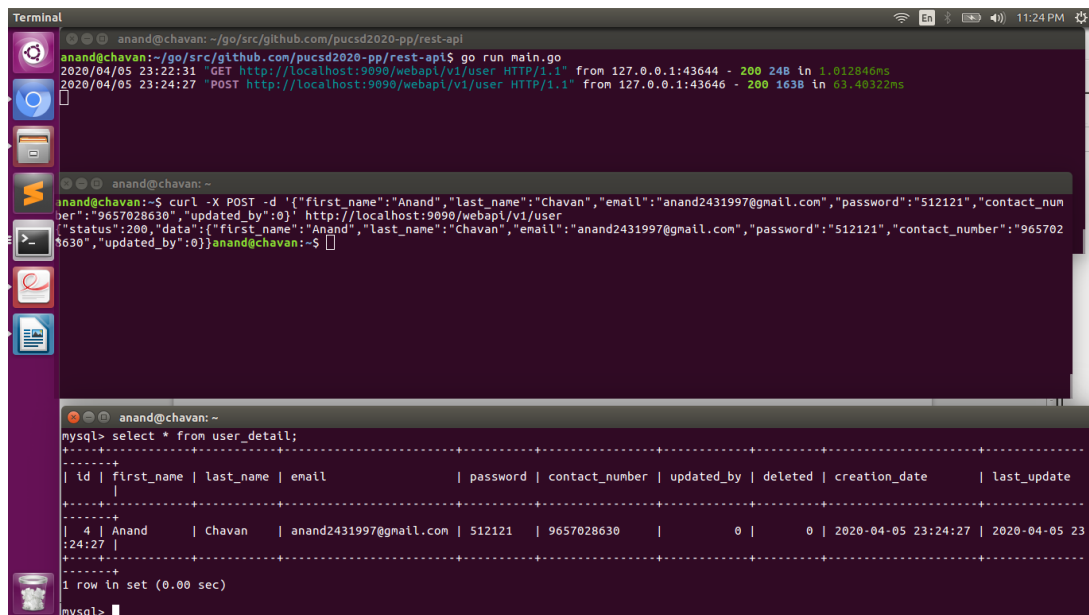
Write the execution flow diagram of given code



## GET



## POST



```
Terminal
anand@chavan: ~/go/src/github.com/pucsd2020-pp/rest-api$ go run main.go
2020/04/05 23:22:31 "GET http://localhost:9090/webapi/v1/user HTTP/1.1" from 127.0.0.1:43644 - 200 24B in 1.012846ms
2020/04/05 23:24:27 "POST http://localhost:9090/webapi/v1/user HTTP/1.1" from 127.0.0.1:43646 - 200 163B in 63.40322ms
2020/04/05 23:26:27 "PUT http://localhost:9090/webapi/v1/user HTTP/1.1" from 127.0.0.1:43648 - 405 0B in 18.901µs

anand@chavan: ~
anand@chavan:~$ curl -X PUT -d '{"first_name":"Deva","last_name":"Suewase","email":"deva@gmail.com","password":"512121we","contact_number":"96570286355","updated_by":0}' http://localhost:9090/webapi/v1/user
anand@chavan:~$

mysql> select * from user_detail
-> ;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | first_name | last_name | email | password | contact_number | updated_by | deleted | creation_date | last_update |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 4 | Anand | Chavan | anand2431997@gmail.com | 512121 | 9657028630 | 0 | 0 | 2020-04-05 23:24:27 | 2020-04-05 23:24:27 |
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```

[illegible]