**Backend Test**

**The following tasks should take about 1.5 hours with moderate experience using Golang Gin:** (we would like you to create a repository on GitHub and push your code there)

**using Golang Gin and a MySQL database:**

**write a REST API with the following tables:**

**Table 1 :**

create table person(id int not null key auto\_increment, name varchar(255), age int);

**You can assume the following data in person:**

| **Name** | **Age** | **ID** |
| --- | --- | --- |
| mike | 31 | 1 |
| John | 45 | 2 |
| Joseph | 20 | 3 |

**Table 2 :**

create table phone(id int not null key auto\_increment, number varchar(255), person\_id int);

**You can assume the following data in phone:**

| **Person\_id** | **ID** | **Number** |
| --- | --- | --- |
| 1 | 1 | 444-444-4444 |
| 2 | 8 | 123-444-7777 |
| 3 | 3 | 445-444-4444 |

**Table 3:**

create table address(id int not null key auto\_increment, city varchar(255), state varchar(255), street1 varchar(255), street2 varchar(255), zip\_code varchar(255));

**You can assume the following data in address:**

| **ID** | **City** | **State** | **Street1** | **Street2** | **Zip\_code** |
| --- | --- | --- | --- | --- | --- |
| 1 | Eugene | OR | "111 Main St" | "" | 98765 |
| 2 | Sacramento | CA | 432 First St | Apt 1 | 22221 |
| 3 | Austin | TX | 213 South 1st St | “” | 78704 |

**Table 4:**

create table address\_join(id int not null key auto\_increment, person\_id int, address\_id int);

**You can assume the following data in address\_join:**

| **ID** | **Person\_id** | **Address\_id** |
| --- | --- | --- |
| 1 | 1 | 3 |
| 2 | 2 | 1 |
| 3 | 3 | 2 |

**Task 1:make a REST endpoint (GET)** */person/{person\_id}/info*

GET /person/1/info returns:

{

"name": "mike",

"phone\_number": "444-444-4444",

"city" : "Eugene",

"state" : "OR",

"street1": "111 Main St",

"street2": "",

"zip\_code": "98765",

}

**Task 2:make a REST endpoint (POST) / Create**

/person/create

POST /person/create accepts body:

{

"name": "mike",

"phone\_number": "444-444-4444",

"city" : "Eugene",

"state" : "OR",

"street1": "111 Main St",

"street2": "",

"zip\_code": "98765",

}

returns 200