NAME: VISHWAKARMA MANISHKUMAR DURBHASH

REGNO.19BCE10303 CAMPUS: VIT BHOPAL

EMAIL: mdv932453@gmail.com

Phone: 8828071175

# Task details: Instagram Backend API.

- Whole project is done with the help of standard libraries only no external libraries are used.
- All the APIs are successfully implemented.
- All the APIs are thread safe
- Passwords are encrypted.
- MongoDB is used for storage.

### How to run this project?

- Download Golang , MongoDB, MongoDB drivers
- Create Database with name Instagram
- Create collections Users and Posts
- Start the server by running main.go file using command: go run main.go

### Note:

The server will listen to localhost:9094 (as written in program)

The Mongodb database will run on localhost:27017

Visit the following url to see the endpoints:

#### 1. Create an User

**URL:** <a href="http://localhost:9094/users">http://localhost:9094/users</a>

Request Parameter	Data Type	Status	Remark
id	String	Mandatory	Method= POST
name	String	Mandatory	
email	String	Mandatory	
password	String	Mandatory	

Note: (Passwords are stored Encrypted)

## 2. Get a user using id

```
Method = GET
```

**URL:** http://localhost:9094/users/ <id here> **Sample URL:** http://localhost:9094/users/125
Response Sample:

```
{
  "id": "125",
  "name": "manish vishwakarma",
  "email": "mdv932453@gmail.com",
  "password": "Manish@2000"
}
```

Note: (Password is decrypted and then returned)

#### 3. Create a Post

**URL:** <a href="http://localhost:9094/posts">http://localhost:9094/posts</a>

Request Parameter	Data Type	Status	Remark
id	String	Mandatory	Method= POST
caption	String	Mandatory	
image_url	String	Mandatory	
timestamp			

Note: Timestamp is automatically stored

# Request sample:

```
"id": "110",
   "caption": "Hii my first post",
   "image_url": "jhjshjdskjdkjkajkkjdk"
```

Response sample: status 200 ok

#### In database:

```
_id:ObjectId("61615525b9cb7a9bcdb0100d")
id:"110"
caption:"Hii my first post"
image_url:"jhjshjdskjdkjkajkkjdk"
timestamp:"2021-10-09T14:09:01+05:30"
```

# 4. Get a post using id

Method = **GET** 

URL: http://localhost:9094/posts/ <id here>
Sample URL: http://localhost:9094/posts/110

### Response sample:

```
"id": "115",
   "caption": "Hii my first post",
   "image_url": "jhjshjdskjdkjkajkkjdk",
   "timestamp": "2021-10-09T14:09:01+05:30"
```

## 5. List all posts of a user

Method = **GET** 

**URL:** http://localhost:9094/posts/users/ <id here> **Sample URL:** http://localhost:9094/posts/users/110

## Response sample:

```
[
    "id": "110",
    "caption": "Hii my first post",
    "image_url": "jhjshjdskjdkjkajkkjdk",
    "timestamp": "2021-10-09T14:09:01+05:30"
},
```

```
{
  "id": "110",
  "caption": "Hii my second post",
  "image_url": "jhjshjdskjdkjkajkkjdk",
  "timestamp": "2021-10-09T18:57:17+05:30"
},
{
  "id": "110",
  "caption": "Hii my third post",
  "image_url": "jhjshjdskjdkjkajkkjdk",
  "timestamp": "2021-10-09T18:58:17+05:30"
},
{
  "id": "110",
  "caption": "Hii my fourth post",
  "image_url": "jhjshjdskjdkjkajkkjdk",
  "timestamp": "2021-10-09T18:58:26+05:30"
},
{
  "id": "110",
  "caption": "Hii my fifth post",
  "image_url": "jhjshjdskjdkjkajkkjdk",
  "timestamp": "2021-10-09T18:58:34+05:30"
}
```

(Assumed that post id and user id are same since post can be uniquely identified by using "\_id" parameter in mongoDB)