Request/Response

**Request pattern:**

{

request: String;

data: JSON Object;

}

**Response pattern:**

{

response: String;

code: Int;

data: JSON Object;

}

// we have no intention to make requests from server, right?

- Right.

**The list of requests/response:**

// Action: Log in the User

{

request: "login",

data: {

name: ~UserName~, -> String

pasword: ~Password~ -> String

}

}

{

response: "login",

code: ~ResponseCode~,

data: {

error: ~ErrorMessage~ -> String

}

}

// Action: Add the last created route to the database

{

request: "addRoute",

data: {

info: { -> JSON object

origin: { -> JSON object

placeID: ~GoogleMapsPlaceID~ -> String

name: ~CityName~ -> String

},

destination: { -> JSON object

placeID: ~GoogleMapsPlaceID~,-> String

name: ~CityName~ -> String

},

length: ~RouteMilage~ -> Double

},

hash: ~GoogleMapsHash~, -> String

stops: [{ -> JSON array

placeID: ~GoogleMapsPlaceID~, -> String

name: ~CityName~ -> String

}]

}

}

{

response: "addRoute",

code: ~ResponseCode~,

data: {

id:~RouteID~ -> Int

}

}

// Action: Get a brief list of routes information

{

request:"getRouteList",

data: { <empty> } // for now -> JSON object

}

{

response:"getRouteList",

code: ~ResponseCode~,

data: { -> JSON object

routesList: [{ -> JSON array

origin: ~CityName~, -> String

destination: ~CityName~, -> String

length: ~Kilometers~ -> Double

}]

}

}

// Action: Get a complete information of a route from the database

{

request: "getRoute",

data: {

id: ~RouteID~ -> Int

}

}

{

response: "getRoute",

code: ~ResponseCode~

data: {

hash: ~GoogleMapsHash~, -> String

stops: [{ -> JSON array

placeID: ~GoogleMapPlaceID~, -> String

name: ~CityName~ // optional? -> String

}]

}

}

Glossary

**Data structures:**

Credentials {

name:String;

password:String;

}

Route {

id:Int;

info:RouteInfo;

googleMapsHash:String;

stops:City[];

path:Path; // \*\_\*

}

RouteInfo {

origin:City;

destination:City;

length:Double;

}

City {

placeID:String;

name:String;

population:Int;

}

Path { // \*\_\*

roads:Road[];

}

Road { // \*\_\*

id:String;

name:String; // M05 (Kiev-Odessa), M06 (Kiev-Lviv) etc.

statistics:RoadStatistics; // quality, traffic etc.

???

}

**\*\*Add your argumented propositions here.\*\***