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.