

Request/Response

Request pattern:

```
{  
    command: ~The Command~,  
    data: ~Data If Required~  
}
```

-> Int
-> JSON Object

Response pattern:

```
{  
    command: ~The Command~,  
    code: ~Response Code~,  
    data: ~Data If Required~  
}
```

-> Int
-> Int
-> JSON Object

The list of requests/responses:

// Action: Log in the User

```
{  
    command: LOGIN,  
    data: ~Credentials~  
}  
{  
    command: LOGIN,  
    code: ~ResponseCode~,  
    data: {  
        error: ~Error Message~  
    }  
}
```

-> Credentials
-> String

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

```
{
    command: ADD_ROUTE,
    data: {
        info: ~Short Route Info~           -> RouteInfo
        polyline: ~Google Maps Polyline~,   -> String
        stops: [ ~Cities~ ],                -> City[]
    }
}
{
    command: ADD_ROUTE,
    code: ~Response Code~,
    data: {
        id: ~Route ID~                     -> Int
    }
}
```

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

```
{
    command: GET_ROUTE,
    data: {
        id: ~Route ID~                     -> Int
    }
}
{
    command: GET_ROUTE,
    code: ~Response Code~,
    data: {
        route: ~Route~                     -> Route
    }
}
```

```

// Action: Get a brief list of routes information
{
    command: GET_ROUTE_LIST,
    data: { <empty> } // may contain some filters later
}
{
    command: GET_ROUTE_LIST,
    code: ~Response Code~,
    data: {
        routes_list: [                                -> JSON array
            route: {                                    -> JSON object
                id: ~Route ID~,                          -> Int
                info: ~Route Info~                        -> RouteInfo
            }
        ]
    }
}

```

TODO LIST

- ➔ Add more information about the routes
- ➔ Add a request to register a new Driver
- ➔ Add some basic race scheduling features

**** Feel free to put your propositions and ideas here. ****

Glossary

blue - to be used for the current version

grey - for the future development

Common data types:

Credentials {

login : ~User Login~,	-> String
password : ~User Password~	-> String

}

Route {

id : ~Route ID~,	-> Int
info : ~Short Route Info~,	-> RouteInfo
polyline : ~Google Maps Polyline~,	-> String
stops : [~Cities~]	-> City[]
path : Path;	// * _ *

}

RouteInfo {

origin : ~From City~,	-> City
destination : ~To City~,	-> City
total_distance : ~Kilometers~	-> Double

}

City {

place_id : ~Google Maps Place~	-> String
formatted_address : ~City Name~	-> String
location : ~Location~	-> Location
population : Int;	

}

Location {

lat : ~Latitude~	-> Double
lng : ~Longitude~	-> Double

}

```

Path {                                     // * _ *
    roads:Road[];
    ???
}
Road {                                     // * _ *
    id: ~Road ID/Place ID~,               -> String
    name: ~Road Name~,                   -> String
                                           // M05 (Kiev-Odessa), M06 (Kiev-Lviv) etc.
    statistics: ~Road Statistics~         -> ???
                                           // quality, traffic etc.
    ???
}

```

Response codes:

OK	= 200
BadRequest	= 400
Unauthorized	= 401
Forbidden	= 403
NotFound	= 404

Request codes:

LOGIN	= 0
ADD_ROUTE	= 1
GET_ROUTE	= 2
GET_ROUTE_LIST	= 3