LOGIN

CLIENT -> SERVER

POST

```
{
    "command_code": "LOGIN",
    "info": {
        "username": "duongdz",
        "password": "abcdef"
    }
}
```

SERVER -> CLIENT

• METHOD: GET

REGISTER

CLIENT -> SERVER

```
{
    "command_code": "REGISTER",
    "info": {
         "username": "abc",
         "password": "xyz",
    }
}
```

SERVER -> CLIENT

MATCH-MAKING

CLIENT -> SERVER

POST METHOD

SERVER -> CLIENT

```
{
    "command_code":"JOIN_QUEUE",
    "info":{
        "session_id": "AOSJHBGASLGJB"/"ASLJGLJSBGEF",
    "username": "duongdz"/"anon1234",
    }
    "status_code": "success",
    "error": "",
}
```

```
{
    "command_code":"MATCH_FOUND",
    "info":{
    "match_id": 1234,
```

MOVES

CLIENT -> SERVER

POST METHOD

```
{
    "command_code": "DRAW_REQUEST",
    "info": {
    "match_id": 1234,
        "session_id": "AOSJHBGASABCD",
        "move_player": "phuc",
    }
}
```

```
{
    "command_code": "DRAW_CONFIRM",
    "info": {
    "match_id": 1234,
        "session_id": "AOSJHBGASLGJB",
        "move_player": "duongdz",
        "acceptance": true/false
    }
}
```

SERVER -> CLIENT (client hears from server)

• GET

```
{
    "command_code": "ENDGAME",
    "info": {
    "match_id": 1234,
        "winner":{
            "username": "duongdz",
            "elo": 1510
        },
        "loser":{
            "username": "phuc",
            "elo": 1490
        },
        "draw": true/false
    "status_code": "success"/"error",
    "error": ""
}
```

```
{
    "command_code": "DRAW_REQUEST",
    "info": {
    "match_id": 1234,
        "move_player": "phuc",
    },
    "status_code": "success"/"error",
    "error": ""
}
```

LEADERBOARD

CLIENT -> SERVER

```
{
"command_code": "LEADERBOARD"

   "info": {
        "session_id": "AOSJHBGASLGJB",
        "username": "duongdz"
      },
}
```

SERVER -> CLIENT

```
{
    "command_code": "LEADERBOARD",
    "info": {
        "username": ["duongdz", "phuc", "einh", "lanhonglee"],
        "elo": [1390, 1490, 1470, 1460],
        "rank": [69, 1, 2, 3]
    },
        "status_code": "success"/"error",
        "error": ""
}
```

CHAT

CLIENT -> SERVER

```
{
   "command_code": "CHAT",
   "info": {
        "from_user": "duongdz",
        "to_user": "phuc",
        "message": "hellooooooooooo",
        "message_id": "CHAT1234",
        "match_id": 1234
}
}
```

SERVER -> CLIENT

```
{
  "command_code": "CHAT",
  "info": {
        "from_user": "duongdz",
        "to_user": "phuc",
        "message": "hellooooooooooo",
        "message_id": "CHAT1234",
        "match_id": 1234
}
  "status_code": "success"/"error",
        "error": ""
}
```

Acknowledgement

CLIENT -> SERVER

```
{
  "command_code": "CHATACK",
  "info": {
      "message_id": "CHAT1234",
      "status": "success"/"error",
      "error": "",
   }
}
```

SERVER -> CLIENT

```
{
    "command_code": "CHATACK",
```

```
"info": {
          "message_id": "CHAT1234",
    }
    "status": "success"/"error",
    "error": "",
}
```