

1. User Login

- **POST** request URL <https://128.199.204.199/users/login> with Json data
 - POST with parameters

```
{
  "mail" : "the user email",
  "passwd" : "user password"
}
```
 - Server return in Json format

```
{
  "status" : "success of fail",
  "uid" : "user id or null",
  "token": "user token or null"
  "wineries":{
    {"wid ": "winery id 1", "wname":"winery name"},
    {"wid ": "winery id 2", "wname":"winery name"}
    ...
  }
}
```

2. Load Ferments

- **POST** request URL <https://128.199.204.199/ferments/pull>
 - Post with parameters

```
{
  "uid": "user id",
  "token" : "user token",
  "wid" : "winery id"
}
```
 - Return in JSON format

```
{
  "status": "success or fail",
  {"fid ": "ferment id 1", "tank_num": " tank number", "mid": "mote
local id", "wname": "winery name", "t_s": "start time"},

  {"fid ": "ferment id 2", "tank_num": " tank number", "mid": "mote
local id", "wname": "winery name", "t_s": "start time"}
  ...
}
```

3. Load Temperature

- **Post** request URL <https://128.199.204.199/temp/pull>
 - POST with parameters

```
{
  "uid" : "user id",
  "token" : "user token",
  "fid" : "ferment id",
  "wid" : "winery id"
}
```
 - Return in JSON format

```
{
  "status": "success or fail",
```

```

    "reading":{
        "temp":{"t0":t0, "t1":t1, ... "t7": t7},
        "update_time":"last time updating the temperature"
    }
}

```

4 . Add Ferment

- **Post** request to URL https://128.199.204.199/ferments/add_ferment
 - POST with parameters


```

          {
            "uid" : "user id",
            "token" : "user token",
            "wid" : "winery id",
            "tank_num" : "tank number",
            "bid" : "base station id",
            "mid" : "mote id",
            "type" : "ferment type",
          }
          
```
 - Return in JSON format


```

          {
            "status" : "success or fail"
          }
          
```