# **IOU API Specification Doc**

# User

## Create a new user

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/user/signup |

Sample Input:

username: hang

password: 123456

* Sample API response

{

"success": **true**,

"token": "Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyTmFtZSI6ImhhbmciLCJpYXQiOjE2MDQzMTM0ODYsImV4cCI6MTYwNDMxNzA4Nn0.x35RUYQ4vnaGy5WnEyI0zvZRfwVqm14LiEKBYKO4wNc",

"userName": "hang",

"userID": "5f9fe18e9dd6c10e19010e6d"

}

## Login

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/user/login |

Sample Input:

username: hang

password: 123456

* Sample API response

{

"success": **true**,

"token": "Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyTmFtZSI6ImhhbmciLCJpYXQiOjE2MDQzMTM0ODYsImV4cCI6MTYwNDMxNzA4Nn0.x35RUYQ4vnaGy5WnEyI0zvZRfwVqm14LiEKBYKO4wNc",

"userName": "hang",

"userID": "5f9fe18e9dd6c10e19010e6d"

}

## Get all users

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/user/users |

Header:

Authorization: user token

* Sample API response

[

{

"completedRequest": 1,

"\_id": "5f9016d3fadc1b071601b9b1",

"userName": "tracy"

},

{

"completedRequest": 2,

"\_id": "5f901726fadc1b071601b9b5",

"userName": "peter"

},

{

"completedRequest": 1,

"\_id": "5f901759fadc1b071601b9b9",

"userName": "leesin"

},

]

## Verify user

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/user/verify |

Header:

Authorization: user token

* Sample API response

Session available

# Prize

## Create new prize

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/prize/add |

## Get all prizes

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/prize |

* Sample API response

[

{

"\_id": "5f8ea85ffadc1b071601b901",

"prize": "Coke",

"\_\_v": 0

},

{

"\_id": "5f8eaa5dfadc1b071601b911",

"prize": "Pizza",

"\_\_v": 0

},

]

# Request

## Get all public requests

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/request |

## Create new request

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/request/create |

Header:

Authorization: user token

## Update a request

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **PATCH** | api/request/update/:id |

Header:

Authorization: user token

Sample API call: api/request/update/5f9fe9de9dd6c10e19010e6f

## Resolve a request

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **PATCH** | api/request/resolve/:id |

Header:

Authorization: user token

Sample API call:

api/request/ resolve /5f9fe9de9dd6c10e19010e6f

## Delete a request

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **DELETE** | api/request/delete/:id |

Header:

Authorization: user token

Sample API call: api/request/delete/5f9fe9de9dd6c10e19010e6f

* Sample API response

[

{

"\_id": "5f90ddd71b9f090642c5a51c",

"requestContent": "Clean my room",

"requestFavors": [

{

"rewards": [

{

"\_id": "5f90ddd71b9f090642c5a51e",

"id": {

"\_id": "5f8eaa5dfadc1b071601b911",

"prize": "Pizza"

},

"quantity": 2

}

],

"\_id": "5f90ddd71b9f090642c5a51d",

"from": {

"\_id": "5f90dd141b9f090642c5a515",

"userName": "lekang"

}

}

],

"resolverID": **null**,

"resolverProof": **null**,

"\_\_v": 0

}

]

# Favor

## Get all uncompleted favors

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/favor/uncompleted |

Header:

Authorization: user token

## Get all favors for a specific user

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/favor/user/:userID |

Header:

Authorization: user token

Sample API call: api/favor/user/5f90dd141b9f090642c5a515

## Create new favor

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/favor/create |

Header:

Authorization: user token

## Update a favor

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **PATCH** | api/favor/update/:id |

Header:

Authorization: user token

Sample API call: api/favor/update/5f9017b1fadc1b071601b9c1

## Delete a favor

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **DELETE** | api/favor/delete/:id |

Header:

Authorization: user token

Sample API call: api/favor/delete/5f9017b1fadc1b071601b9c1

## Get all debts for a specific user

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/favor/debt |

Header:

Authorization: user token

Sample API call: api/favor/debt

* Sample API response

[

{

"isComplete": **false**,

"\_id": "5f9017b1fadc1b071601b9c1",

"ownerID": {

"\_id": "5f901726fadc1b071601b9b5",

"userName": "peter"

},

"debtorID": {

"\_id": "5f901759fadc1b071601b9b9",

"userName": "leesin"

},

"items": [

{

"\_id": "5f901765fadc1b071601b9bc",

"id": "5f8eaa5dfadc1b071601b911",

"quantity": 1

}

],

"createdImage": "https://i.imgur.com/Kudd32k.jpeg",

"createdAt": "2020-10-21T11:12:49.145Z",

"updatedAt": "2020-10-21T11:12:49.145Z",

"\_\_v": 0

},

]

## Get all resolved debts

### API call

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | api/favor/top |

Header:

Authorization: user token

Sample API call: api/favor/top

* Sample API response

[

{

"\_id": "5f901759fadc1b071601b9b9",

"totalDebt": 1,

"userDetail": [

{

"\_id": "5f901759fadc1b071601b9b9",

"completedRequest": 1,

"userName": "leesin",

"password": "$2a$10$xLypXqs3csoHlmuDSwCRJ.oC6MJZdN43jsCmyPiuADDst2yOxyMvW",

"\_\_v": 0

}

]

},

{

"\_id": "5f90c8001b9f090642c5a4ec",

"totalDebt": 3,

"userDetail": [

{

"\_id": "5f90c8001b9f090642c5a4ec",

"completedRequest": 0,

"userName": "seconduser",

"password": "$2a$10$EKtzgiLIdXS0P0E82aloEOjD8n.MqhKS0n/bqB/cR2gQJr2580T/2",

"\_\_v": 0

}

]

},

]