1. **Insert Gift**

POST /api/gifts

{"name":"小台灯",”picture”:”/gift1.png”,"description":"实用，方便","coin":2,"price":1.0,"giftType":"TYPE\_1"}

Return status=200：

1. **Get gifts**

GET /api/gifts?page=:page&size=:size

Return status=200

{

"links": [

{

"rel": "next",

"href": "http://localhost:8080/api/gifts?page=1&size=2"

},

{

"rel": "first",

"href": "http://localhost:8080/api/gifts?page=0&size=2"

},

{

"rel": "last",

"href": "http://localhost:8080/api/gifts?page=1&size=2"

},

{

"rel": "self",

"href": "http://localhost:8080/api/gifts?page=0&size=2"

}

],

"size": 2,

"number": 0,

"content": [

{

"id": 2,

"creationTime": "21-04-2015",

"name": "小台灯",

"description": "实用，方便",

"price": 1.0,

"coin": 2,

"exchangeable": false,

"giftType": "TYPE\_1"

},

{

"id": 3,

"creationTime": "21-04-2015",

"name": "小台灯1",

"description": "实用，方便",

"price": 1.0,

"coin": 2,

"exchangeable": false,

"giftType": "TYPE\_1"

}

],

"sort": [

{

"direction": "ASC",

"property": "id",

"ascending": true

}

],

"totalElements": 3,

"totalPages": 2,

"numberOfElements": 2,

"firstPage": true,

"lastPage": false

}

1. **delete Gift**

DELETE /api/gifts/:giftId?count=:count

Return status=200 or status= 507 (insufficient coins)

1. **exchange gift**

PUT /api/students/:studentId/gifts/:giftId

Return status=200 or status= 507 (insufficient coins)

1. **get exchange history**

GET /api/students/:studentId/exchanges?page=:page&size=size

Return status=200

{

"links": [

{

"rel": "next",

"href": "http://localhost:8080/api/students/1/exchanges?page=1&size=2"

},

{

"rel": "first",

"href": "http://localhost:8080/api/students/1/exchanges?page=0&size=2"

},

{

"rel": "last",

"href": "http://localhost:8080/api/students/1/exchanges?page=1&size=2"

},

{

"rel": "self",

"href": "http://localhost:8080/api/students/1/exchanges?page=0&size=2"

}

],

"size": 2,

"number": 0,

"content": [

{

"id": 1,

"creationTime": "21-04-2015",

"gift": {

"id": 2,

"creationTime": "21-04-2015",

"name": "小台灯",

"description": "实用，方便",

"price": 1.0,

"coin": 2,

"exchangeable": false,

"giftType": "TYPE\_1"

},

"status": "DELIVERED",

"count": 1,

"studentId": 1,

"modifier": 0,

"modificationTime": "21-04-2015"

},

{

"id": 2,

"creationTime": "21-04-2015",

"gift": {

"id": 3,

"creationTime": "21-04-2015",

"name": "小台灯1",

"description": "实用，方便",

"price": 1.0,

"coin": 2,

"exchangeable": false,

"giftType": "TYPE\_1"

},

"status": "SUCCESSED",

"count": 1,

"studentId": 1,

"modifier": 0,

"modificationTime": "21-04-2015"

}

],

"sort": [

{

"direction": "ASC",

"property": "id",

"ascending": true

}

],

"totalElements": 4,

"totalPages": 2,

"numberOfElements": 2,

"firstPage": true,

"lastPage": false

}

1. **change giftHistory status to delivered status**

PUT /api/users/:userId/exchanges/:exchangeId

Return status=200