# <u>Integrative Software Engineering - Specifications for RESTful API - sprint 2</u>

#### **Users related API**

Description	HTTP Method	URL	Input	Output
Create a new user	POST	/iob/users	New User Boundary	User Boundary
Login valid user and retrieve user details	GET	/iob/users/login/{userDomain}/{userEmail}		User Boundary
Update user details	PUT	/iob/users/{userDomain}/{userEmail}	User Boundary	

#### Instances API

Description	HTTP Method	URL	Input	Output
Create an instance	POST	/iob/instances/{userDomain}/{userEmail}	Instance Boundary with no instanceId	Instance Boundary
Update an instance	PUT	/iob/instances/{userDomain}/{userEmail}/{instanceDomain}/{instanceId}	Instance Boundary	
Retrieve instance	GET	/iob/instances/{userDomain}/{userEmail}/{instanceDomain}/{instanceId}		Instance Boundary
Get all instances	GET	/iob/instances/{userDomain}/{userEmail}		Array of <mark>Instance</mark> Boundary

## **Activities API**

Description	HTTP Method	URL	Input	Output
Invoke an instance activity	POST	/iob/activities	Activity Boundary with null activityId	Any JSON Object

Note Admin API on the next page...

## **Admin API**

Description	HTTP Method	URL	Input	Output
Delete all users in the domain	DELETE	/iob/admin/users/{userDomain}/{userEmail}		
Delete all instances in the domain	DELETE	/iob/admin/instances/{userDomain}/{userEmail}		
Delete all activities in the domain	DELETE	/iob/admin/activities/{userDomain}/{userEmail}		
Export all users	GET	/iob/admin/users/{userDomain}/{userEmail}		Array of <mark>User Boundaries</mark>
Export all activities	GET	/iob/admin/activities/{userDomain}/{userEmail}		Array of Activity Boundaries

Note the Boundary samples on the following pages...

## **Sample JSON Boundaries**

```
NewUserBoundary sample JSON:
{
    "email":"user@demo.com",
    "role":"PLAYER",
    "username":"Demo User",
    "avatar":"J"
}

UserBoundary sample JSON:
{
    "userId":{
        "domain":"2022a.demo",
        "email":"user@demo.com"
    },
    "role":"PLAYER",
    "username":"Demo User",
    "avatar":"J"
}
```

```
InstanceBoundary sample JSON
     "instanceId":{
          "domain": "2022a.demo",
          "id":"352"
     },
     "type": "dummyInstanceType",
     "name": "demo instance",
     "active":true,
     "createdTimestamp":"2021-10-24T19:55:05.248+0000",
     "createdBy":{
          "userId":{
               "domain": "2022a.demo",
               "email": "user2@demo.com"
     },
     "location":{
          "lat":32.115139,
          "lng":34.817804
     "instanceAttributes":{
          "key1": "can be set to any value you wish",
          "key2": "you can also name the attributes any name you like",
          "key3":6.2,
          "key4":false
```

```
ActivityBoundary sample JSON:
     "activityId":{
          "domain":"2022a.demo",
          "id":"112"
     } ,
     "type": "demoActivityType",
     "instance":{
          "instanceId":{
               "domain": "2022a.demo",
               "id":"352"
     },
     "createdTimestamp":"2021-10-24T19:57:23.114+0000",
     "invokedBy":{
          "userId":{
               "domain": "2022a.demo",
               "email":"user3@demo.com"
     "activityAttributes":{
          "key1": "can be set to any value you wish",
          "key2":{
               "key2Subkey1":"can be nested json"
```