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# Data Response Buffers

The requested data is returned in the “data” object of the response buffer as this example shows.

{

"data": [

{

"studyId": "12345",

"sessionName": "AutomatedTest",

"email": "test@example.com",

"comments": null

}

]

}

# Error Response Buffers

All calls should return an HTTP error status of 200 whenever possible. Errors that occur within the command should return the corresponding HTTP error and message in an “error” object as this example shows.

{

"error": {

"status": 501,

"message": "Command not recognized.",

}

}

* **Status** = HTTP Status of request
* **Message** = Error explanation in text

# Debug Response Buffers

These can be defined as required by the module. The only requirement is that the debug information is included in the “debug” object as shown in this example.

The debug buffer should also include a “module” field that contains the filename of the module returning the debug buffer.

{

"debug": {

"module": "C:\\wlux\_web\_service\\website\\data\\gratuity\_get\_study.php",

"cmdData": {

"studyId": "12345",

"sessionName": "AutomatedTest"

},

"sqlSelect1": {

"sqlQuery": "SELECT studyId, sessionName, email, comments FROM gratuity\_log WHERE studyId = 12345 AND sessionName = \"AutomatedTest\"",

"sqlError": "00000",

"message": ""

}

},

"data": [

{

"studyId": "12345",

"sessionName": "AutomatedTest",

"email": "test@example.com",

"comments": null

}

]

}

# Account access and authorization

Initially, only basic account authorization is supported as follows:

1. The user must log into the WebLabUX web site using their web site credentials. This is configured through the web server (e.g. .htaccess) and provides access to the WebLabUX app and home page.
2. On the WebLabUX home page, the user must log in to their WebLabUX account. This limits their access to WebLabUX information as follows:
   1. Admin accounts: all access to all information
   2. Researcher accounts: all access to protected information they own (ownerId = the researcher’s accountId)
   3. Reviewer accounts: read access to protected information to which a Researcher or Admin account has granted access. (This can be added later. For now, admin and researcher access are sufficient)
3. WebLabUX sessions expire after a system-configured time.
4. Web site access is managed and configured through the web server.

Access to protected information is determined by the authorization header passed in the request. The calling application must supply a valid authorization header when requesting protected information. When protected information is requested:

1. The Authentication header is parsed
2. The username and password are decoded
3. The username and password are used to determine the allowed access of that account
4. The access allowed is compared to the request and
   1. The request is allowed and processed
   2. The request is denied and a 401 Unauthorized status is returned

# study

Information about a study configuration

Protected data—authorization header required

## config

Process elements of a study definition

A study can be specified by the *studyId* (alone) or by the *ownerID* and *studyName*.

### GET

Gets a study definition

Protected data—Read access required

#### REQUEST

{

"conifg": {

"studyId": 9999

}

}

Or

{

"conifg": {

"studyName": "My favorite study",

"ownerId": 1234

}

}

#### RESPONSE

{

"data": {

"studyId": 9999,

"ownerId": 1234,

"studyName": "My favorite study",

"studyDescription": "A long description",

"researcherOrg": "org",

"researcherFirstName": "Alex",

"researcherLastName": "Researcher",

"researcherEmail": "aResearcher@example.com",

"defaultTimeZone": "UTC+08",

"defaultVariationMethod": "randomSequential",

"defaultTaskBarRoot": "wlux",

"defaultTaskBarCssPath": "css\\taskbar.css",

"defaultVariationRoot": "client",

"defaultVariationCssPath": "css\\vars\\var1.css",

"defaultExitButtonText": "Exit task",

"defaultTabShowText": "Show",

"defaultTabHideText": "Hide",

"clientTimeStampFormat": "unixtime",

"dateCreated": 9992999203,

"dateModified": 9992999203,

"studyStatus": "draft"

}

}

#### ERRORS

* Study not found
* Access denied

### POST

Creates a new study definition

Protected data—Write access required

#### REQUEST

{

"config": {

"studyId": 9999,

"ownerId": 1234,

"studyName": "My favorite study",

"defaultTaskBarCssPath": "css\\taskbar.css",

"defaultVariationCssPath": "css\\vars\\var1.css"

}

}

OR

{

"config": {

"ownerId": 1234,

"studyName": "My favorite study",

"defaultTaskBarCssPath": "css\\taskbar.css",

"defaultVariationCssPath": "css\\vars\\var1.css"

}

}

#### RESPONSE

{

"data": {

"studyId": 9999,

"ownerId": 1234,

"studyName": "My favorite study",

"studyDescription": "A long description",

"researcherOrg": "org",

"researcherFirstName": "Alex",

"researcherLastName": "Researcher",

"researcherEmail": "aResearcher@example.com",

"defaultTimeZone": "UTC+08",

"defaultVariationMethod": "randomSequential",

"defaultTaskBarRoot": "wlux",

"defaultTaskBarCssPath": "css\\taskbar.css",

"defaultVariationRoot": "client",

"defaultVariationCssPath": "css\\vars\\var1.css",

"defaultExitButtonText": "Exit task",

"defaultTabShowText": "Show",

"defaultTabHideText": "Hide",

"clientTimeStampFormat": "unixtime",

"dateCreated": 9992999203,

"dateModified": 9992999203,

"studyStatus": "draft"

}

}

#### ERRORS

* Study already exists
* Invalid field value
* Access denied

### PUT

Modifies fields in an existing study definition

Protected data—Update access required

#### REQUEST

{

"config": {

"studyId": 9999,

"studyDescription": "A long description that was made even longer"

}

}

#### RESPONSE

{

"data": {

"studyId": 9999,

"ownerId": 1234,

"studyName": "My favorite study",

"studyDescription": "A long description that was made even longer",

"researcherOrg": "org",

"researcherFirstName": "Alex",

"researcherLastName": "Researcher",

"researcherEmail": "aResearcher@example.com",

"defaultTimeZone": "UTC+08",

"defaultVariationMethod": "randomSequential",

"defaultTaskBarRoot": "wlux",

"defaultTaskBarCssPath": "css\\taskbar.css",

"defaultVariationRoot": "client",

"defaultVariationCssPath": "css\\vars\\var1.css",

"defaultExitButtonText": "Exit task",

"defaultTabShowText": "Show",

"defaultTabHideText": "Hide",

"clientTimeStampFormat": "unixtime",

"dateCreated": 9992999203,

"dateModified": 9992999203,

"studyStatus": "draft"

}

}

#### ERRORS

* Study not found
* Invalid field value
* Access denied

### DELETE

Removes an existing study definition and all related task and variable definitions.

Protected data—Delete access required

#### REQUEST

{

"config": {

"studyId": 9999

}

}

Or

{

"config": {

"ownerId": 1234,

"studyName": "My favorite study"

}

}

#### RESPONSE

Returns the number of study records deleted

{

"data": {

"deleted": 1,

"schedule": 10,

"variable": 4,

"task": 5

}

}

#### ERRORS

* Study not found
* Access denied

## allStudyIds

Gets information about the studies defined in the database.

Protected data—Authorization required

### GET

Get the requested study or study element IDs.

Protected data—Read access required

#### REQUEST

{

"allStudyIds": {}

}

#### RESPONSE

{

"data": {

"count": 4,

"studyIds": [

"1234",

"2525",

"1999",

"2001"

]

}

}

#### ERRORS

* Access denied

## studyElements

Gets information about the contents of a study defined in the database.

Protected data—Authorization required

### GET

Get the requested study or study element IDs.

Protected data—Read access required

#### REQUEST

{

"studyElements": {

"studyId": 1234

}

}

#### RESPONSE

Returns the variables, sessions, and the tasks and their variations for the specified study

{

"data": {

"studyId": "1234",

"variables": {

"variable 1": "varType",

"variable 2": "varType"

},

"sessions": {

"First session": {

"startDate": 9992999203,

"endDate": 9992999403

},

"Second session": {

"startDate": 9992999503,

"endDate": 9992999803

}

},

"tasks": {

"1": [

"1",

"2",

"3",

"4"

],

"2": [

"1",

"2"

],

"3": [

"1",

"2",

"3"

]

}

}

}

#### ERRORS

* Study not found
* Access denied

## name

Get information about a study by name

Protected data—Authorization required

### GET

Returns information about the specified study. Used to simply check to see if a study with a specified name already exists.

Protected data—Read access required

#### REQUEST

{

"name": {

"ownerId": 1234,

"studyName": "My Favorite study"

}

}

#### RESPONSE

Returns the study ID if a study with the study name already exists

{

"data": {

"studyId": 9999,

"ownerId": 1234,

"studyName": "My Favorite study"

}

}

Or, if the study name has not been used by this account, the study ID value returned is 0.

{

"data": {

"studyId": 0,

"ownerId": 1234,

"studyName": "My Favorite study"

}

}

#### ERRORS

* Access denied

## task

Information about study task definitions.

Protected data—Authorization required

A task is uniquely identified by:

* studyId
* taskId
* variationId

### GET

Gets information about a study task or tasks.

Protected data—Read access required

#### REQUEST

Initially, the *studyId* is required.

{

"task": {

"studyId": 9999,

"taskId": 1,

"variationId": 0

}

}

Later, we can find the *studyId* for the caller by looking it up from the *ownerId* and *studyName* as in this example.

{

"task": {

"ownerId": 1234,

"studyName": "My Favorite study",

"taskId": 1,

"variationId": 0

}

}

A Wildcard value (“\*”) for taskId and variationId could also be supported later on to return a collection of task records (e.g. all variations of taskId=2, all tasks and variations for studyId=1234)

#### RESPONSE

For a response that returns a single object:

{

"data": {

"task": {

"studyId": 1234,

"taskId": 1,

"variationId": 1,

"defaultVariationRoot": "wlux",

"variationCssPath": "/css/var1.css",

"defaultTaskBarRoot": "wlux",

"taskBarCssPath": "/css/taskbar.css",

"taskStartUrl": "http://www.example.com/test.html",

"taskReturnUrl": "http://wlux.uw.edu/taskFinish.html",

"exitButtonText": "Exit task",

"tabShowText": "show",

"tabHideText": "hide",

"taskHtml": "<p>Do the task and then click <b>Exit task</b>.</p>",

"startPageHtml": "http://wlux.uw.edu/taskStart.html",

"finishPageHtml": "http://wlux.uw.edu/taskFinish.html",

"startPageNextUrl": "http://www.example.com/test.html",

"finishPageNextUrl": "http://wlux.uw.edu/taskFinish.html",

"measuredTask": 1,

"taskType": "prePostTask"

}

}

}

For a response that returns multiple task objects:

{

"data": {

"count": 2,

"task": [

{

"studyId": 1234,

"taskId": 1,

"variationId": 1,

"defaultVariationRoot": "wlux",

"variationCssPath": "/css/var1.css",

"defaultTaskBarRoot": "wlux",

"taskBarCssPath": "/css/taskbar.css",

"taskStartUrl": "http://www.example.com/test.html",

"taskReturnUrl": "http://wlux.uw.edu/taskFinish.html",

"exitButtonText": "Exit task",

"tabShowText": "show",

"tabHideText": "hide",

"taskHtml": "<p>Do the task and then click <b>Exit task</b>.</p>",

"startPageHtml": "http://wlux.uw.edu/taskStart.html",

"finishPageHtml": "http://wlux.uw.edu/taskFinish.html",

"startPageNextUrl": "http://www.example.com/test.html",

"finishPageNextUrl": "http://wlux.uw.edu/taskFinish.html",

"measuredTask": 1,

"taskType": "prePostTask"

},

{

"studyId": 1234,

"taskId": 1,

"variationId": 2,

"defaultVariationRoot": "wlux",

"variationCssPath": "/css/var1.css",

"defaultTaskBarRoot": "wlux",

"taskBarCssPath": "/css/taskbar.css",

"taskStartUrl": "http://www.example.com/test.html",

"taskReturnUrl": "http://wlux.uw.edu/taskFinish.html",

"exitButtonText": "Exit task",

"tabShowText": "show",

"tabHideText": "hide",

"taskHtml": "<p>Do the task and then click <b>Exit task</b>.</p>",

"startPageHtml": "http://wlux.uw.edu/taskStart.html",

"finishPageHtml": "http://wlux.uw.edu/taskFinish.html",

"startPageNextUrl": "http://www.example.com/test.html",

"finishPageNextUrl": "http://wlux.uw.edu/taskFinish.html",

"measuredTask": 1,

"taskType": "prePostTask"

}

]

}

}

#### ERRORS

* Study not found
* Task not found
* Variation not found
* Access denied

### POST

Create a new study task definition.

Protected data—Write access required

#### REQUEST

{

"task": {

"studyId": 1234,

"taskId": 1,

"variationId": 1,

"defaultVariationRoot": "wlux",

"variationCssPath": "/css/var1.css",

"defaultTaskBarRoot": "wlux",

"taskBarCssPath": "/css/taskbar.css",

"taskStartUrl": "http://www.example.com/test.html",

"taskReturnUrl": "http://wlux.uw.edu/taskFinish.html",

"taskHtml": "<p>Do the task and then click <b>Exit task</b>.</p>",

"startPageHtml": "http://wlux.uw.edu/taskStart.html",

"finishPageHtml": "http://wlux.uw.edu/taskFinish.html",

"startPageNextUrl": "http://www.example.com/test.html",

"finishPageNextUrl": "http://wlux.uw.edu/taskFinish.html",

"taskType": "prePostTask"

}

}

#### RESPONSE

{

"data": {

"task": {

"studyId": 1234,

"taskId": 1,

"variationId": 1,

"defaultVariationRoot": "wlux",

"variationCssPath": "/css/var1.css",

"defaultTaskBarRoot": "wlux",

"taskBarCssPath": "/css/taskbar.css",

"taskStartUrl": "http://www.example.com/test.html",

"taskReturnUrl": "http://wlux.uw.edu/taskFinish.html",

"exitButtonText": "Exit task",

"tabShowText": "show",

"tabHideText": "hide",

"taskHtml": "<p>Do the task and then click <b>Exit task</b>.</p>",

"startPageHtml": "http://wlux.uw.edu/taskStart.html",

"finishPageHtml": "http://wlux.uw.edu/taskFinish.html",

"startPageNextUrl": "http://www.example.com/test.html",

"finishPageNextUrl": "http://wlux.uw.edu/taskFinish.html",

"measuredTask": 1,

"taskType": "prePostTask"

}

}

}

#### ERRORS

* Study not found
* Task already exists
* Variation already exists
* Access denied

### PUT

Update fields in an existing study task definition.

Protected data—Update access required

The required fields in the request are:

* Those that identify the task and variation to update
* Those that you want to change

Unspecified fields are unchanged.

#### REQUEST

{

"task": {

"studyId": 1234,

"taskId": 1,

"variationId": 1,

"taskHtml": "<p>Do the new task and then click <b>Exit task</b>.</p>"

}

}

#### RESPONSE

{

"data": {

"task": {

"studyId": 1234,

"taskId": 1,

"variationId": 1,

"defaultVariationRoot": "wlux",

"variationCssPath": "/css/var1.css",

"defaultTaskBarRoot": "wlux",

"taskBarCssPath": "/css/taskbar.css",

"taskStartUrl": "http://www.example.com/test.html",

"taskReturnUrl": "http://wlux.uw.edu/taskFinish.html",

"exitButtonText": "Exit task",

"tabShowText": "show",

"tabHideText": "hide",

"taskHtml": "<p>Do the new task and then click <b>Exit task</b>.</p>",

"startPageHtml": "http://wlux.uw.edu/taskStart.html",

"finishPageHtml": "http://wlux.uw.edu/taskFinish.html",

"startPageNextUrl": "http://www.example.com/test.html",

"finishPageNextUrl": "http://wlux.uw.edu/taskFinish.html",

"measuredTask": 1,

"taskType": "prePostTask"

}

}

}

#### ERRORS

* Study not found
* Task not found
* Variation not found
* Access denied

### DELETE

Remove a task definition from a study.

Protected data—Delete access required

#### REQUEST

Initially, the *studyId* is required.

{

"task": {

"studyId": 9999,

"taskId": 1,

"variationId": 0

}

}

Later, we can find the *studyId* for the caller by looking it up from the *ownerId* and *studyName* as in this example.

{

"task": {

"ownerId": 1234,

"studyName": "My Favorite study",

"taskId": 1,

"variationId": 0

}

}

A Wildcard value (“\*”) for taskId and variationId could also be supported later on to return a collection of task records (e.g. all variations of taskId=2, all tasks and variations for studyId=1234)

#### RESPONSE

{

"data": {

"deleted": 1

}

}

#### ERRORS

* Study not found
* Task not found
* Variation not found
* Access denied

## schedule

Information about the data collection periods defined for a study.

Protected data—Authorization required

### GET

Gets information about one or more collection periods.

Protected data—Read access required

#### REQUEST

Initially, the *studyId* is required.

{

"schedule": {

"studyId": 1234,

"sessionName": "Fall 2013"

}

}

Later, we can find the *studyId* for the caller by looking it up from the *ownerId* and *studyName* as in this example.

{

"schedule": {

"ownerId": 1234,

"studyName": "My Favorite study",

"sessionName": "Fall 2013"

}

}

#### RESPONSE

{

"data": {

"studyId": 1234,

"sessionName": "Fall 2013",

"sessionDescription": "Survey of new freshmen",

"sessionParticipantLimit": -1,

"sessionAnnouncementText": "Click to take our survey",

"sessionEmailList": "user@example.com,another@example.com",

"sessionStartTime": 1380092400000,

"sessionEndTime": 1387094400000,

"sessionTimeZone": "UTC+08",

"sessionTaskSequence": "sequential",

"sessionStudyVariations": "singleRandom",

"dateCreated": 9992999203,

"dateModified": 9992999203

}

}

#### ERRORS

* Study not found
* Access denied

### POST

Creates a new collection schedule entry for a study.

Protected data—Write access required

#### REQUEST

{

"schedule": {

"studyId": 1234,

"sessionName": "Fall 2013",

"sessionDescription": "Survey of new freshmen",

"sessionParticipants": -1,

"sessionStartTime": 1380092400000,

"sessionEndTime": 1387094400000,

"sessionTimeZone": "UTC+08",

"sessionTaskSequence": "sequential",

"sessionStudyVariations": "singleRandom"

}

}

#### RESPONSE

{

"data": {

"studyId": 1234,

"sessionName": "Fall 2013",

"sessionDescription": "Survey of new freshmen",

"sessionParticipantLimit": -1,

"sessionAnnouncementText": "Click to take our survey",

"sessionEmailList": "user@example.com,another@example.com",

"sessionStartTime": 1380092400000,

"sessionEndTime": 1387094400000,

"sessionTimeZone": "UTC+08",

"sessionTaskSequence": "sequential",

"sessionStudyVariations": "singleRandom",

"dateCreated": 9992999203,

"dateModified": 9992999203

}

}

#### ERRORS

* Study not found
* Data validation error
  + - Start time after end time
* Access denied

### PUT

Updates fields in a collection schedule entry.

Protected data—Update access required

Required fields:

* studyId
* sessionName

#### REQUEST

{

"schedule": {

"studyId": 1234,

"sessionName": "Fall 2013",

"sessionDescription": "Survey of new freshmen with a new name"

}

}

#### RESPONSE

{

"data": {

"studyId": 1234,

"sessionName": "Fall 2013",

"sessionDescription": "Survey of new freshmen with a new name ",

"sessionParticipantLimit": -1,

"sessionAnnouncementText": "Click to take our survey",

"sessionEmailList": "user@example.com,another@example.com",

"sessionStartTime": 1380092400000,

"sessionEndTime": 1387094400000,

"sessionTimeZone": "UTC+08",

"sessionTaskSequence": "sequential",

"sessionStudyVariations": "singleRandom",

"dateCreated": 9992999203,

"dateModified": 9992999203

}

}

#### ERRORS

* Study not found
* Session not found
* Data validation error
  + - Start time after end time
* Access denied

### DELETE

Deletes a study’s schedule entry.

Protected data—Delete access required

#### REQUEST

{

"schedule": {

"studyId": 1234,

"sessionName": "Fall 2013"

}

}

#### RESPONSE

{

"data": {

"deleted": 1

}

}

#### ERRORS

* Study not found
* Session not found
* Access denied

## variable

Information about a study variable (TBD)

Protected data—Authorization required

### GET

Gets information about a defined study variable.

#### REQUEST

#### RESPONSE

#### ERRORS

### POST

Creates a study variable entry.

#### REQUEST

#### RESPONSE

#### ERRORS

### PUT

Updates an existing study variable entry.

#### REQUEST

#### RESPONSE

#### ERRORS

### DELETE

Deletes an existing study variable entry.

#### REQUEST

#### RESPONSE

# account

Information about a WebLabUX user.

Protected data—Authorization required

## user

### GET

Gets information about a user.

Protected data—Read access required

User must be admin or requesting info about their own account.

An account is identified uniquely by its *accountId* or its *username*.

#### REQUEST

{

"user": {

"username": "ResearcherBob"

“ownerId” : 9999

}

}

#### RESPONSE

{

"data": {

"accountId": 23,

"username": "ResearcherBob",

“ownerId” : 9999,

"password": "132eerl3uio34()\*()\*)22980",

"firstName": "Bob",

"lastName": "Researcher",

"greetingName": "Bob",

"orgName": "UW - HCDE",

"email": "bob@example.com",

"accountType": "researcher",

"wluxUrlRoot": "http://wlux.uw.edu/weblabux",

"clientUrlRoot": "http://mytestsite.example.com",

"defaultTimeZone": "UTC+08",

"dateCreated": 9992999203,

"dateModified": 9992999203

}

}

#### ERRORS

* User not found
* Access denied

### POST

Creates a new user account.

Protected data—Admin access required

#### REQUEST

{

"user": {

"username": "ResearcherBob",

“ownerId” : 9999,

"password": “Plain text password",

"firstName": "Bob",

"lastName": "Researcher",

"greetingName": "Bob",

"orgName": "UW - HCDE",

"email": "bob@example.com",

"accountType": "researcher",

"wluxUrlRoot": "http://wlux.uw.edu/weblabux",

"clientUrlRoot": "http://mytestsite.example.com",

"defaultTimeZone": "UTC+08"

}

}

#### RESPONSE

{

"data": {

"accountId": 23,

"username": "ResearcherBob",

“ownerId” : 9999,

"password": "132eerl3uio34()\*()\*)22980",

"firstName": "Bob",

"lastName": "Researcher",

"greetingName": "Bob",

"orgName": "UW - HCDE",

"email": "bob@example.com",

"accountType": "researcher",

"wluxUrlRoot": "http://wlux.uw.edu/weblabux",

"clientUrlRoot": "http://mytestsite.example.com",

"defaultTimeZone": "UTC+08",

"dateCreated": 9992999203,

"dateModified": 9992999203

}

}

#### ERRORS

* Access denied

### PUT

Updates an existing user account.

Protected data—Update access required

#### REQUEST

{

"user": {

"username": "ResearcherBob",

“ownerId” : 9999,

"orgName": "UW – Engineering”

}

}

#### RESPONSE

{

"data": {

"accountId": 23,

"username": "ResearcherBob",

“ownerId” : 9999,

"password": "132eerl3uio34()\*()\*)22980",

"firstName": "Bob",

"lastName": "Researcher",

"greetingName": "Bob",

"orgName": "UW - Engineering",

"email": "bob@example.com",

"accountType": "researcher",

"wluxUrlRoot": "http://wlux.uw.edu/weblabux",

"clientUrlRoot": "http://mytestsite.example.com",

"defaultTimeZone": "UTC+08",

"dateCreated": 9992999203,

"dateModified": 9992999203

}

}

#### ERRORS

* User not found
* Access denied

### DELETE

Deletes an existing user account.

Protected data—Admin access required

#### REQUEST

{

"user": {

"username": "ResearcherBob",

“ownerId” : 9999

}

}

#### RESPONSE

{

"data": {

"deleted": 1

}

}

#### ERRORS

* User not found
* Access denied

# signIn

Authorizes a user account and sets the account context of the session.

### POST

Creates a new user session if the user account and credentials are valid.

Unprotected data— No authorization header required

#### REQUEST

{

"signIn": {

"username": "ResearcherBob",

“password” : “Plain text password”

}

}

#### RESPONSE

{

"data": {

"username": "ResearcherBob",

"accountId" : 23,

"token": " QWxhZGRpbjpvcGVuIHNlc2FtZQ=="

}

}

Initially, the token will be the encoded data used in the authorization header. E.g.

Authorization: Basic <token value>

Using the response buffer from above, the Authentication header would contain:

Authorization: Basic QWxhZGRpbjpvcGVuIHNlc2FtZQ==

#### ERRORS

* Not authorized

# signOut

Closes an open session.

NOTE: I’m not sure how or if this is necessary within the current authorization scheme. As it is, the authorization is done per call, so the sign out functionality is contained in the browser/app. When the user signs out of the app, the app stops using the user’s credentials when interacting with the data service. I’ll leave it in for now, but it could be removed in future updates of the spec.

### POST

Closes the current session.

#### REQUEST

Only one of these two fields is required. If both are specified, the token takes precedence.

{

"signOut": {

"username": "ResearcherBob",

"token": "sdfewrpoip3240-9v0-d-"

}

}

#### RESPONSE

{

"data": {}

}

#### ERRORS

* User not logged in

#### 

# session

Manages participant sessions.

## config

Information about the session configuration.

### GET

Gets data about the current session configuration. This command is typically called only from a site under test to configure the site variation parameters

Unprotected data—No authorization header required

#### REQUEST

{

"config": {

"sessionId": 223334056

}

}

#### RESPONSE

{

"data": {

"sessionId": 223334056,

"studyId": 1234,

"studyVariationNo": 3,

"taskId": 2,

"taskVariationNo": 1,

"variationCssUrl": "http://wlux.uw.edu/weblabux/css/1234/3/2/1/var.css",

"taskBarCssUrl": "http://wlux.uw.edu/weblabux/css/taskBar.css",

"taskStartUrl": "http://mysite.example.com/taskPage.html",

"taskReturnUrl": "http://wlux.uw.edu/weblabux/finishTask.html",

"exitButtonText": "Exit task",

"tabShowText": "show",

"tabHideText": "hide",

"taskHtml": "<p>Do the task, please</p>",

"startPageHtml": "http://wlux.uw.edu/weblabux/startTask.html",

"finishPageHtml": "http://wlux.uw.edu/weblabux/finishTask.html",

"startPageNextUrl": "http://mysite.example.com/taskPage.html",

"finishPageNextUrl": "http://wlux.uw.edu/weblabUx/startTask.html",

"measuredTask": 1,

"taskType": "prePostTask"

}

}

#### ERRORS

* Session not found

## start

Starts a new participant session in accordance with the study definition

### POST

Create a new study session for the specified study,

Unprotected data—No authorization header required

#### REQUEST

{

"start": {

"studyId": 1234

}

}

#### RESPONSE

{

"data": {

"studyId": 1234,

"sessionId": 1377453392,

"studyVariationNo": 3,

"startTime": "2013-08-25 10:56:32"

}

}

#### ERRORS

* Study not found

## startNextTask

### POST

Starts the next task in the specified session according to the sequencing logic

Unprotected data—No authorization header required

#### REQUEST

{

"startNextTask ": {

"sessionId": 1377453392

}

}

#### RESPONSE

{

"data": {

"studyId": "1234",

"sessionId": "1377453392",

"studyVariationNo": 3,

"taskId": 1,

"taskVariationNo": 1,

"startTime": "2013-08-25 11:23:47",

"startPageHtml": "<p>These are the instructions for Task 1</p>",

"startPageNextUrl": "http://students.washington.edu/rbwatson/hearts.html"

}

}

If a new task is started before the previous task was finished:

* the previous task is finished
* The next task is started
* the data from the previous task is returned with that of the new task

{

"data": {

"studyId": "1234",

"sessionId": "1377453392",

"studyVariationNo": 3,

"taskId": 1,

"taskVariationNo": 1,

"startTime": "2013-08-25 11:23:47",

"startPageHtml": "<p>These are the instructions for Task 1</p>",

"startPageNextUrl": "http://students.washington.edu/rbwatson/hearts.html"

},

"finishData": {

"taskId": "1",

"finishTime": "2013-08-25 11:27:19",

}

}

#### ERRORS

* Session not found
* No more tasks

## finishCurrentTask

### POST

Finishes the task in in progress. Finishing the last task also finishes the session.

Unprotected data—No authorization header required

#### REQUEST

{

" finishCurrentTask": {

"sessionId": 1377453392

}

}

#### RESPONSE

{

"data": {

"taskId": 2,

"finishTime": "2013-08-25 11:32:44",

"finishPageHtml": "<p>You just finished Task 2</p>",

"finishPageNextUrl": "http://wlux.uw.edu/rbwatson/task-start.php"

}

}

#### ERRORS

* Session not found

# log

Information about the sessions and tasks that have been performed.

## session

Session log information

### GET

Gets information from the log about the specified session

Protected data—Read access required

#### REQUEST

{

"session": {

"sessionId": 1377453392

}

}

#### RESPONSE

{

"data": {

"studyId": "1234",

"schduleSessionName": "Freshman 2014",

"sessionId": "1377397537",

"studyVariationNo": 3,

"startTime": "2013-08-24 19:46:07",

"endTime": "2013-08-24 19:48:12",

"tasks": [

{

"taskId": "1",

"taskVariationNo": 1,

"startTime": "2013-08-24 19:46:10",

"endTime": "2013-08-24 19:46:42"

},

{

"taskId": "2",

"taskVariationNo": 1,

"startTime": "2013-08-24 19:47:07",

"endTime": "2013-08-24 19:48:12"

}

]

}

}

#### ERRORS

* Session not found
* Access denied

## sessions

Information about the sessions of a specific study

### GET

Gets information from the log about the specified session or sessions

Protected data—Read access required

#### REQUEST

This requests gets all the sessions recorded for this study during the specified schedule period.

{

"sessions": {

"studyId": 1234,

"schduleSessionName": "Freshman 2014"

}

}

#### RESPONSE

{

"data": {

"studyId": "1234",

"schduleSessionName": "Freshman 2014",

"sessions": [

{

"sessionId": "1377397537",

"studyVariationNo": 3,

"startTime": "2013-08-24 19:46:07",

"endTime": "2013-08-24 19:48:12",

"tasks": [

{

"taskId": "1",

"taskVariationNo": 1,

"startTime": "2013-08-24 19:46:10",

"endTime": "2013-08-24 19:46:42"

},

{

"taskId": "2",

"taskVariationNo": 1,

"startTime": "2013-08-24 19:47:07",

"endTime": "2013-08-24 19:48:12"

}

]

},

{

"sessionId": "1377397538",

"studyVariationNo": 1,

"startTime": "2013-08-25 19:46:07",

"endTime": "2013-08-25 19:48:12",

"tasks": [

{

"taskId": "1",

"taskVariationNo": 1,

"startTime": "2013-08-25 19:46:10",

"endTime": "2013-08-25 19:46:42"

},

{

"taskId": "2",

"taskVariationNo": 1,

"startTime": "2013-08-25 19:47:07",

"endTime": "2013-08-25 19:48:12"

}

]

},

{

"sessionId": "1377397539",

"studyVariationNo": 2,

"startTime": "2013-08-26 19:46:07",

"endTime": "2013-08-26 19:48:12",

"tasks": [

{

"taskId": "1",

"taskVariationNo": 1,

"startTime": "2013-08-26 19:46:10",

"endTime": "2013-08-26 19:46:42"

},

{

"taskId": "2",

"taskVariationNo": 1,

"startTime": "2013-08-26 19:47:07",

"endTime": "2013-08-26 19:48:12"

}

]

}

]

}

}

## load

Record pages read on the client site

### POST

Create a new log record for a page load.

Unprotected data—No authorization header required

(This is the same functionality that the log- POST-open method provided)

#### REQUEST

{

"load": {

"clientTimestamp": 1375043148,

"sessionId": 1377397539,

"pageUrl": "http://students.washington.edu/rbwatson/hearts.html"

}

}

#### RESPONSE

{

"data": {}

}

#### ERRORS

None

If a non-existent session is specified, record the data submitted and leave the derived data empty/null.

## transition

Record page interactions that leave one page to go to another

### POST

Create a new interaction record.

Unprotected data—No authorization header required

#### REQUEST

{

"transition": {

"clientTimestamp": 1375043148,

"sessionId": 1377397539,

"fromUrl": "http://students.washington.edu/rbwatson/hearts.html",

"toUrl": "http://students.washington.edu/rbwatson/spades.html",

"linkClass": "a\_class",

"linkId": "a\_Id",

"linkTag": "a"

}

}

#### RESPONSE

{

"data": {}

}

#### ERRORS

None

If a non-existent session is specified, record the data submitted and leave the derived data empty/null.

## allStudies

Information about the entries in the logs

### GET

Get a list of sessions or studies with log records.

Protected data—Read access required

#### REQUEST

{

"allStudies": { }

}

#### RESPONSE

{

"data": {

"count": 4,

"studyIds": [

"1234",

"2525",

"1999",

"2001"

]

}

}

#### ERRORS

None

## study

Get transaction log data for the specified study

### GET

Gets information from the log about the specified study

Protected data—Read access required

#### REQUEST

{

"study": {

"studyId": 1234,

"schduleSessionName": "Freshman 2014"

}

}

#### RESPONSE

{

"data": {

"studyId": 1234,

"schduleSessionName": "Freshman 2014",

"sessions": [

{

"sessionId": "1377397537",

"studyVariationNo": 3,

"tasks": [

{

"taskId": 1,

"taskVariationNo": 3,

"taskLog": [

{

"serverTimestamp": 1375043148000,

"clientTimestamp": 1375043148,

"recordType": "transition",

"fromUrl": "http://students.washington.edu/rbwatson/hearts.html",

"toUrl": "http://students.washington.edu/rbwatson/spades.html",

"linkClass": "a\_class",

"linkId": "a\_Id",

"linkTag": "a"

},

{

"serverTimestamp": 1375043148000,

"clientTimestamp": 1375043148,

"recordType": "transition",

"fromUrl": "http://students.washington.edu/rbwatson/hearts.html",

"toUrl": "http://students.washington.edu/rbwatson/spades.html",

"linkClass": "a\_class",

"linkId": "a\_Id",

"linkTag": "a"

}

]

},

{

"taskId": 2,

"taskVariationNo": 3,

"taskLog": [

{

"serverTimestamp": 1375043148000,

"clientTimestamp": 1375043148,

"recordType": "transition",

"fromUrl": "http://students.washington.edu/rbwatson/hearts.html",

"toUrl": "http://students.washington.edu/rbwatson/spades.html",

"linkClass": "a\_class",

"linkId": "a\_Id",

"linkTag": "a"

},

{

"serverTimestamp": 1375043148000,

"clientTimestamp": 1375043148,

"recordType": "transition",

"fromUrl": "http://students.washington.edu/rbwatson/hearts.html",

"toUrl": "http://students.washington.edu/rbwatson/spades.html",

"linkClass": "a\_class",

"linkId": "a\_Id",

"linkTag": "a"

}

]

}

]

},

{

"sessionId": "1377397533",

"studyVariationNo": 2,

"tasks": [

{

"taskId": 1,

"taskVariationNo": 3,

"taskLog": [

{

"serverTimestamp": 1375043148000,

"clientTimestamp": 1375043148,

"recordType": "transition",

"fromUrl": "http://students.washington.edu/rbwatson/hearts.html",

"toUrl": "http://students.washington.edu/rbwatson/spades.html",

"linkClass": "a\_class",

"linkId": "a\_Id",

"linkTag": "a"

},

{

"serverTimestamp": 1375043148000,

"clientTimestamp": 1375043148,

"recordType": "transition",

"fromUrl": "http://students.washington.edu/rbwatson/hearts.html",

"toUrl": "http://students.washington.edu/rbwatson/spades.html",

"linkClass": "a\_class",

"linkId": "a\_Id",

"linkTag": "a"

}

]

},

{

"taskId": 2,

"taskVariationNo": 3,

"taskLog": [

{

"serverTimestamp": 1375043148000,

"clientTimestamp": 1375043148,

"recordType": "transition",

"fromUrl": "http://students.washington.edu/rbwatson/hearts.html",

"toUrl": "http://students.washington.edu/rbwatson/spades.html",

"linkClass": "a\_class",

"linkId": "a\_Id",

"linkTag": "a"

},

{

"serverTimestamp": 1375043148000,

"clientTimestamp": 1375043148,

"recordType": "transition",

"fromUrl": "http://students.washington.edu/rbwatson/hearts.html",

"toUrl": "http://students.washington.edu/rbwatson/spades.html",

"linkClass": "a\_class",

"linkId": "a\_Id",

"linkTag": "a"

}

]

}

]

}

]

}

}

#### ERRORS

* Study not found

# gratuity

Information used to collect and send gratuity information to participants

## gratuity

record a participant’s gratuity information

### POST

#### REQUEST

Unprotected data—No authorization header required

{

"gratuity": {

"studyId": 1234,

"sessionName": "Freshmen 2014",

"email": "you@me.com",

"comments": "I hope this really works!!!!"

}

}

#### RESPONSE

{

"data": {

"studyId": 1234,

"sessionName": "Freshmen 2014",

"email": "you@me.com",

"comments": "I hope this really works!!!!"

}

}

#### ERRORS

* Study not found
* Session not running

## study

Gets the participants who registered for a gratuity

### GET

REQUEST

Protected data—Read access required

{

"study": {

"studyId": 1234,

"sessionName": "Freshmen 2014

}

}

RESPONSE

{

"data": [

{

"studyId": "1234",

"sessionName": "Freshmen 2014",

"email": "me@you.com",

"comments": "I hope this really works!"

},

{

"studyId": "1234",

"sessionName": "Freshmen 2014",

"email": "you@me.com",

"comments": "I hope this really works!!!!"

}

]

}

ERRORS

* Study not found
* Session not found

# debug

control’s system debug messaging

## config

### GET

Get the current debug info state of each module.

Protected data—Admin access required

REQUEST

{

"config":{}

}

RESPONSE

{

"data": {

"account": {

"POST": 0,

"GET": 0,

"PUT": 0,

"DELETE": 0

},

"gratuity": {

"POST": 0,

"GET": 0,

"PUT": 0,

"DELETE": 0

},

"log": {

"POST": 0,

"GET": 0,

"PUT": 0,

"DELETE": 0

},

"session": {

"POST": 0,

"GET": 0,

"PUT": 0,

"DELETE": 0

},

"signIn": {

"POST": 0,

"GET": 0,

"PUT": 0,

"DELETE": 0

},

"signOut": {

"POST": 0,

"GET": 0,

"PUT": 0,

"DELETE": 0

},

"study": {

"POST": 1,

"GET": 0,

"PUT": 0,

"DELETE": 0

}

}

}

ERROR

### POST

REQUEST

Set the current debug info state of one or more modules module.

Protected data—Admin access required

{

"config": {

"study": {

"POST": 1,

"GET": 0

},

"log": {

"POST": 0,

"GET": 0

}

}

}

RESPONSE

{

"data": {

"log": {

"POST": 0,

"GET": 0,

"PUT": 0,

"DELETE": 0

},

"study": {

"POST": 1,

"GET": 0,

"PUT": 0,

"DELETE": 0

}

}

}

ERROR

* Not authorized