EyeQue Backend Rest API Document

Version 0.8.2

Date of Update: July 21, 2016

**User Management**

1. **New User Sign Up**

Call when user signs up the app

URL: [IP address]/index.php/rest/V1/customers [POST]

Request [POST]

Call during new user sign up

{

"customer":

{

"email": "youremail@gmail.com",

"firstname": "",

"lastname": ""

},

"password": "123456",

"redirectUrl": ""

}

Response (Status 200)

{

{"id":2,

"group\_id":1,

"created\_at":"2016-04-26 19:23:29",

"updated\_at":"2016-04-26 19:23:29",

"created\_in":"Default Store View",

"dob":"2001-01-01 00:00:00",

"email":"youremail@gmail.com",

"firstname":"",

"lastname":"",

"gender":1,

"store\_id":1,

"website\_id":1,

"addresses":[],

"disable\_auto\_group\_change":0

}

}

**Curl example:**

curl -X POST "http://api.eyeque.com/index.php/rest/V1/customers" -H "Content-Type:application/json" -d '{"customer": {"email": "john.smith@eyeque.com", "firstname": "", "lastname": ""}, "password":"123456", "redirectUrl":""}'

1. **Existing user sign in and get user session token**

Call when user signs in or right after a new user successfully signs up

URL: [IP address]/index.php/rest/V1/integration/customer/token

Request [POST]

{

"username": "youremail@gmail.com",

"password": "123456"

}

Response (Status 200)

{"nahahqj4t6y739fx6fe5wlby9h0sil77"}

**Curl example:**

curl -X POST "http:// api.eyeque.com/index.php/rest/V1/integration/customer/token" -H "Content-Type:application/json" -d '{"username": "john.smith@eyeque.com", "password": "123456"}'

1. **Get User Profile**

Call when open user’s account information

URL: [IP address]/index.php/rest/V1/customers/me

Place token in the header: 'Authorization: Bearer n6y6ubbgxfujw8j1gwl5bpaccft3jvnt'

Request [GET]

{}

Response (Status 200)

{

"id":1, /\* ID for customer and use in external reference \*/

"group\_id":1,

"default\_billing":"0",

"default\_shipping":"0",

"created\_at":"2016-04-27 21:00:43",

"updated\_at":"2016-04-28 18:00:49",

"created\_in":"Default Store View",

"dob":"1988-07-08",

"email":"john.smith@eyeque.com",

"firstname":"John",

"lastname":"Smith",

"gender":1,

"store\_id":1,

"website\_id":1,

"addresses":[],

"disable\_auto\_group\_change":0

}

**Curl example:**

curl -X Get "http://api.eyeque.com/index.php/rest/V1/customers/me" –H 'Authorization: Bearer n6y6ubbgxfujw8j1gwl5bpaccft3jvnt'

1. **Update user profile**

Call when user finishes the setup page (Device serial number page)

URL: [IP address]/index.php/rest/V1 /customers/me

Place token in the header: 'Authorization: Bearer n6y6ubbgxfujw8j1gwl5bpaccft3jvnt'

Request [PUT]

{

"customer":

{

"email": "youremail@gmail.com", // mandatory

"firstname": "John", // mandatory

"lastname": "Smith", // mandatory

"website\_id" : 1, // mandatory

"store\_id" : 1, // Always 1

"group\_id" : 1, // 1 for now

"gender":1, // 1: Male 2: Female

"dob":"1988-07-08",

"custom\_attributes":

[{

"attribute\_code":"device\_number",

"value":"dv1234567"

}]

}

}

Response Class (Status 200)

{"p02i2auypddwjvucofvednovtv1kvfdx"}

**Curl example:**

curl -X PUT "http://api.eyeque.com/index.php/rest/V1/customers/me" -H 'Content-Type: application/json' -H 'Authorization: Bearer vdptdme8ifja0r9a3rqr82n8l7rntreu' -d '{"customer": {"email": "john.smith@eyeque.com","firstname": "John","lastname": "Smith", "website\_id" : 1, "store\_id" : 1, "group\_id" : 1, "gender":0,"dob":"1988-07-08", "custom\_attributes":[{"attribute\_code":"device\_number","value":"dv1234567"}]}'

1. **Forgot Password**

Call when user types the email in forgot password page

URL: [IP address]/index.php/rest /V1/customers/password

Place token in the header: 'Authorization: Bearer n6y6ubbgxfujw8j1gwl5bpaccft3jvnt'

Request [PUT]

{

"email": "youremail@gmail.com",

"template": "email\_reset",

"website\_id": 1

}

Response (Status 200)

{true}

**Curl example:**

curl -X PUT "http://api.eyeque.com/index.php/rest/V1/customers/password" -H 'Content-Type: application/json' -d '{"email":"john.smith@eyeque.com","template": "email\_reset","website\_id": 1}'

1. **Check Serial Number**

Call user enter the device serial number

URL: [IP address]/index.php/rest/V1/sncheck/check

Place token in the header: 'Authorization: Bearer n6y6ubbgxfujw8j1gwl5bpaccft3jvnt'

Request [POST]

{

"sn": "M147382098"

}

Response (Status 200)

{“return\_code”: 1 /\*\*\* Valid serial number \*\*\*/}  
{“return\_code”: 0 /\*\*\* Invalid serial number \*\*\*/}

**Curl example:**

curl -X POST "http://api.eyeque.com/index.php/rest/V1/sncheck/check" -H 'Content-Type: application/json' -H 'Authorization: Bearer vdptdme8ifja0r9a3rqr82n8l7rntreu' -d '{"sn":"M147382098"}'

1. **Verify Social Login User**

Call when user login via social login. Check whether the social login user exists.

URL: [IP address]/index.php/rest/V1/socialcustomers/validate

Request [POST]

{

"type":"facebook",

"social\_id":"136408100107787",

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

}

Parameters:

“type”: the type of social media, either “facebook” or “googleplus”.

“social\_id”: the user id of the social login user.

Response Class (Status 200)

0: Neither email and social binding exists. Prompt user email link

-1: Social binding doesn’t exist but email exists

-2: Social binding exists, but email mismatch. Prompt user email link

>0: Existing user, just call token API to sign in

Respond with a positive integer indicating the customer’s id, or “0” if there is no such a customer.

**Curl example:**

curl -X POST -d '{"type":"facebook","social\_id":"136408100107787", "email":"abc@example.com"}' -H 'Content-Type: application/json' 'http://api.eyeque.com/index.php/rest/V1/socialcustomers/validate'

1. **New Social Login User Sign Up**

Call when user signs up the app with social media login

URL: [IP address]/index.php/rest/V1/ socialcustomers [POST]

Request [POST]

{

"customer":

{

"email": "youremail@gmail.com",

"firstname": "",

"lastname": ""

},

"password": "123456",

"redirectUrl": "",

"type":"facebook",

"social\_id":"136408100107787",

"social\_token":"EAAIe9fsCLtABAHXjbS5AZA3ZBZACzT8UdZCaF6FD4nm1EZADrArCiUh7AhbboCDTZAiI08UNfqaSDIavr4tA9LwMUZCoUYFOza5rSjaW997OQCvXnkZBVhdeyDZCZBHQnv3ZA2YNLcMseqH7oE9E0eUIvyTX0fct6MfZCSxZCP27nMpoRmSm8nOKYcDTJGn16Ge2hW5jlBqwsmRuoOSaiGOFm02TV"

}

Additional Parameters:

“type”: the type of social media, either “facebook” or “googleplus”.

“social\_id”: the user id of the social login user.

“social\_token”: the access token(Facebook)or idToken(Googleplus) of the social login user.

Response (Status 200)

{

{"id":2,

"group\_id":1,

"created\_at":"2016-04-26 19:23:29",

"updated\_at":"2016-04-26 19:23:29",

"created\_in":"Default Store View",

"dob":"2001-01-01 00:00:00",

"email":"youremail@gmail.com",

"firstname":"",

"lastname":"",

"gender":1,

"store\_id":1,

"website\_id":1,

"addresses":[],

"disable\_auto\_group\_change":0

}

}

The minimum customer info fields “email”, “firstname”, “lastname” and “website\_id” are required.

Always Respond with a customer object, or error message.

Before creating social customers, do validation first(Api #7). Base on different cases, you should:

Validation case 0: If there is no such a user with the given email(or empty email), and no social link, you can call this api and the response will be the new customer that registered. For customers with no email in their social account, you should ask them to input manually.

Validation case >0: If there is already a user with the given email(or empty email) and the social link exists, you should not make this call because it make no change to the database.

Validation case -1: If there is already a user with the given email, but the social link is new to system, you can call this api and the response will be that user with a new binding social link.

Validation case -2: If there is already a user with the social link, but using a different email, you should not call this api. You can ask the customer whether he would be like to use the old email or the new email from social address. You can get all customer information by calling api 9 with social id and token, and use api 4 to update customer information. Be sure to copy all original information fields first before updating email.

**Curl example:**

curl -X POST http://api.eyeque.com/index.php/rest/V1/socialcustomers -H "Content-Type:application/json" -d '{"customer": {"email": "12347@eyeque.com","firstname": "Yuan","lastname": "Xiong"}, "password":"123456", "redirectUrl":"","type":"facebook","social\_id":"136408100107787","social\_token":"EAAIe9fsCLtABAHXjbS5AZA3ZBZACzT8UdZCaF6FD4nm1EZADrArCiUh7AhbboCDTZAiI08UNfqaSDIavr4tA9LwMUZCoUYFOza5rSjaW997OQCvXnkZBVhdeyDZCZBHQnv3ZA2YNLcMseqH7oE9E0eUIvyTX0fct6MfZCSxZCP27nMpoRmSm8nOKYcDTJGn16Ge2hW5jlBqwsmRuoOSaiGOFm02TV"}'

1. **Social User Sign in and Request for Access Token**

Call when social user signs in after social login

URL: [IP address]/index.php/rest/V1/integration/customer/token

Request [POST]

{

"username": "[type][social\_id]",

"password": "[social\_token]"

}

The username should be social type and social id. Social type can be either “facebook” or “googleplus”

The password should be social access token.

Response (Status 200)

{"nahahqj4t6y739fx6fe5wlby9h0sil77"}

**Curl example:**

For facebook users, use facebook id and access token:

curl -X POST "http:// api.eyeque.com/index.php/rest/V1/integration/customer/token" -H "Content-Type:application/json" -d '{"username":"facebook136408100107787", "password":"EAAIe9fsCLtABACXKMCm0YU6YSzMxRhWTk1u3z2fgvDWOUVC1InoI7IZCYPLZC3ZAIJZA5qPaHb0FjbkaTBQqrFWDePTXPZC0E3rNMBoZBguUpeoNaCiTWI9RAKcIvTZArVCMpjWntqFKskjAwLkdfwr30n6rhFoWmDBvALGY1H74HgcwKCFIFmAUZAsLtd3VEj4SKgVwDMwtCqtBCZCxy2faIRRoZATy5NRL0ZD"}'

For googleplus users, use googleplus id and access token:

curl -X POST http://api.eyeque.com/index.php/rest/V1/integration/customer/token -H "Content-Type:application/json" -d '{"username":"googleplus109221457395271872647", "password":"eyJhbGciOiJSUzI1NiIsImtpZCI6ImVkZDg1MjBmYmYyZDBkYWYyMWU1YjcwNTVlZWQzYzJmZTA0ZjE3NWEifQ..qXPj8xjT6tFpQ7Ql3NivApmz0Lt8w4TlRjHLbNi68k8XgU9sXE\_CosHqAzkMvm3YwjagbpGBHvj153c1\_0mAAwFsB66105wLQauJCJZyrepjhlwcVaCtNz4iMlrDj5cSKpyeklUGC8F7CH2RPD4t5h305UFkcioEv4IWOjyIF4x89mk7-nfgVh9o9VUI-SEEBp8jEZPxpT6hHjPubQP8KM8LTA-0-dtLoDP5RCSw-yNn6V4gStZthpNAejmpbnzqm5sdHBk2Amywu8NSz\_Yi240QWttuGrtu4VoScuBbGZwTwtbehgPowmSC4Wh5377\_TEAsVshgPS0cQGndoZsROg"}'

1. **GetDeviceParameters**

Call to get Device Parameters

URL: [IP address]/index.php/rest/eyecloud/api/V2/devices

Place token in the header: 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

Request [POST]

{

"name":"device5",

"phoneType":"iphone6"

}

Response (Status 200)

{

"id":1,

"blue\_degree":0,

"calc\_angles":"0,320,280,240,200,160,120,80,40",

"created\_at":"2016-07-21T17:51:37Z",

"green\_degree":0,

"height":0,

"initial\_angle":-90,

"initial\_distance":184,

"line\_length":40,

"line\_width":21,

"max\_distance":115,

"min\_distance":60,

"name":"Device5",

"off\_center\_x":-2,

"off\_center\_y":35,

"phone\_type":"iPhone6",

"rc\_angles":"-90,-50,-10,30,70,110,150,190,230",

"red\_degree":0,

"rotated\_angles":"0,0,0,0,0,0,0,0,0",

"width":0

}

Response with a JSON object, all attribute names are using lower case with underscore. Only the number of “id” is a integer, all other values are string or floating number.

**Curl example:**

curl -X POST "http://192.168.110.151/index.php/rest/eyecloud/api/V2/devices" -H 'Content-Type:application/json' -H 'Authorization: Bearer lcyrw0tt0s1cbg0d773ls7c2ggewyb5x' -d '{"name":"device5","phoneType":"iphone6"}'

1. **UploadTestMeasurements**

Call to upload Test Measurements

URL: [IP address]/index.php/rest/eyecloud/api/V2/tests

Place token in the header: 'Authorization: Bearer lcyrw0tt0s1cbg0d773ls7c2ggewyb5x'

Request [POST]

{

"testdata":{

"accomPattern":"",

"binoOp":"No binocular",

"lineLength":40,

"deviceName":"Device5",

"testType":"Full Refraction",

"screenProtect":false,

"phoneType":"iPhone 6+",

"wearGlasses":false,

"subjectID":12,

"measures":[

{

"subjectID":12,

"power":0,

"angle":0,

"rightEye":true,

"distance":195,

"duration":16.47837495803833

},

{

"subjectID":12,

"power":0,

"angle":320,

"rightEye":true,

"distance":196,

"duration":2.926409006118774

},

…

All together 9 measurements for the right eye.

…

{

"subjectID":12,

"power":0,

"angle":0,

"rightEye":false,

"distance":177,

"duration":6.408740997314453

},

…

All together 9 measurements for the left eye.

…

],

"lineWidth":21

}

}

Notice:

“subject\_id” has to be the same as the one you can get from the user using your access token. Otherwise, you will get an authorization error.

The Magento and Mysql system both use lower case characters and underscore in attribute name, however, the Java system use uppercase characters in attribute name. For example, when request, you should use “subjectID”, and it will automatically be rewritten to “subject\_id” when returned in response.

Response (Status 201)  *The calcuated Result.*

{"id":22,"status\_type":18,"subject\_id":12,"test\_condition\_id":26,"algorithm":"CurveFitting","created\_at":"2016-07-21T22:57:50Z","duration":"92.469248056411","score":null,"axis\_od":30,"axis\_os":150,"cyl\_od":-2.1237564027779,"cyl\_os":-2.0734729932801,"rmse\_od":0.084823328326999,"rmse\_os":0.016908511776753,"sphe\_od":2.1111111111111,"sphe\_os":-2.0992283954122,"sph\_od":3.1729893125001,"sph\_os":-1.0624918987722}

**Curl example:**

curl -X POST "http://192.168.110.151/index.php/rest/eyecloud/api/V2/tests" -H 'Content-Type:application/json' -H 'Authorization: Bearer lcyrw0tt0s1cbg0d773ls7c2ggewyb5x' -d '{"testdata":{"accomPattern":"","binoOp":"No binocular","lineLength":40,"deviceName":"Device5","testType":"Full Refraction","screenProtect":false,"phoneType":"iPhone 6+","wearGlasses":false,"subjectID":12,"measures":[{"subjectID":12,"power":0,"angle":0,"rightEye":true,"distance":195,"duration":16.47837495803833},{"subjectID":12,"power":0,"angle":320,"rightEye":true,"distance":196,"duration":2.926409006118774},{"subjectID":12,"power":0,"angle":280,"rightEye":true,"distance":192,"duration":2.697341918945312},{"subjectID":12,"power":0,"angle":240,"rightEye":true,"distance":188,"duration":3.788577079772949},{"subjectID":12,"power":0,"angle":200,"rightEye":true,"distance":192,"duration":4.666412115097046},{"subjectID":12,"power":0,"angle":160,"rightEye":true,"distance":196,"duration":4.193701982498169},{"subjectID":12,"power":0,"angle":120,"rightEye":true,"distance":195,"duration":5.267577886581421},{"subjectID":12,"power":0,"angle":80,"rightEye":true,"distance":189,"duration":5.498701810836792},{"subjectID":12,"power":0,"angle":40,"rightEye":true,"distance":189,"duration":0.8837320804595947},{"subjectID":12,"power":0,"angle":0,"rightEye":false,"distance":177,"duration":6.408740997314453},{"subjectID":12,"power":0,"angle":320,"rightEye":false,"distance":171,"duration":4.658540964126587},{"subjectID":12,"power":0,"angle":280,"rightEye":false,"distance":171,"duration":0.9477889537811279},{"subjectID":12,"power":0,"angle":240,"rightEye":false,"distance":177,"duration":4.399869203567505},{"subjectID":12,"power":0,"angle":200,"rightEye":false,"distance":179,"duration":4.581927061080933},{"subjectID":12,"power":0,"angle":160,"rightEye":false,"distance":174,"duration":6.849893093109131},{"subjectID":12,"power":0,"angle":120,"rightEye":false,"distance":170,"duration":3.722357988357544},{"subjectID":12,"power":0,"angle":80,"rightEye":false,"distance":174,"duration":4.693467855453491},{"subjectID":12,"power":0,"angle":40,"rightEye":false,"distance":179,"duration":9.805833101272583}],"lineWidth":21}}'

1. **Get Result by TestID**

Call to get test result after upload successfully. This api is used in case that you want to request a certain test result. The “testID” stands for the id of the test, which is the same as the “testConditionID”, NOT the “id”. A test with a certain testID may have multiple results with different id, depends on which algorithm has been used during calculation. Only one result will be selected in the response.

URL: [IP address]/index.php/rest/eyecloud/api/V2/results

Place token in the header: 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

Request [POST]

{

"testID":"26”

}

Response (Status 200)

{"id":22,"status\_type":18,"subject\_id":12,"test\_condition\_id":26,"algorithm":"CurveFitting","created\_at":"2016-07-21T22:57:50Z","duration":"92.469248056411","score":null,"axis\_od":30,"axis\_os":150,"cyl\_od":-2.1237564027779,"cyl\_os":-2.0734729932801,"rmse\_od":0.084823328326999,"rmse\_os":0.016908511776753,"sphe\_od":2.1111111111111,"sphe\_os":-2.0992283954122,"sph\_od":3.1729893125001,"sph\_os":-1.0624918987722}

**Curl example:**

curl -X POST "http://192.168.110.151/index.php/rest/eyecloud/api/V2/results" -H 'Content-Type:application/json' -H 'Authorization: Bearer lcyrw0tt0s1cbg0d773ls7c2ggewyb5x' -d '{"testID":"26"}'

1. **Get Vision Record When the score >= 100**

Call to get vision records with condition.

URL: [IP address]/index.php/rest/eyecloud/api/V2/getrecord

Place token in the header: 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

Request [POST]

{

"subjectID":"12”

}

Response (Status 200)

{

"id":6,

"status\_type":null,

"subject\_id":12,

"test\_condition\_id":null,

"algorithm":null,

"created\_at":"2016-07-22T00:09:45Z",

"duration":null,

"score":null,

"axis\_od":30,

"axis\_os":30,

"cyl\_od":-2.1237564027779,

"cyl\_os":-2.1237564027779,

"rmse\_od":null,

"rmse\_os":null,

"sphe\_od":null,

"sphe\_os":null,

"sph\_od":3.1729893125001,

"sph\_os":-1.0624918987722

}

**Curl example:**

curl -X POST "http://192.168.110.151/index.php/rest/eyecloud/api/V2/getrecord" -H 'Content-Type:application/json' -H 'Authorization: Bearer lcyrw0tt0s1cbg0d773ls7c2ggewyb5x' -d '{"subjectID":"12"}'

1. **Refresh all user profiles by admin**

Call to refresh all user profiles, this may took a long time, depends on how many test result you have. This action resets user profile according to the test result, one by one. The user profile is still readable and writable because there is no lock during the storage writing.

You have to post your admin user name and password to run this script.

URL: [IP address]/index.php/rest/eyecloud/api/V2/refreshall

Request [POST]

{

"username":"admin\_username",

"password":"admin\_password"

}

Response (Status 200)

A command line string message showing how many tests refreshed. Which can be ignored.

**Curl example:**

curl -X POST "http://192.168.110.151/index.php/rest/eyecloud/api/V2/refreshall" -H 'Content-Type:application/json' -d '{"username":"admin\_username","password":"admin\_password"}'

1. **Get User Profile Url**

Call to get tracking result snap shot url.

URL: [IP address]/eyecloud/api/V2/testrecords?subjectID=12

Place token in the header: 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

Request [POST]

{

"subjectID":"12”

}

Response (Status 200)

{

"id":6,

"status\_type":null,

"subject\_id":12,

"test\_condition\_id":null,

"algorithm":null,

"created\_at":"2016-07-22T00:09:45Z",

"duration":null,

"score":null,

"axis\_od":30,

"axis\_os":30,

"cyl\_od":-2.1237564027779,

"cyl\_os":-2.1237564027779,

"rmse\_od":null,

"rmse\_os":null,

"sphe\_od":null,

"sphe\_os":null,

"sph\_od":3.1729893125001,

"sph\_os":-1.0624918987722

}

**Curl example:**

curl -X POST "http://192.168.110.151/index.php/rest/eyecloud/api/V2/getrecord" -H 'Content-Type:application/json' -H 'Authorization: Bearer lcyrw0tt0s1cbg0d773ls7c2ggewyb5x' -d '{"subjectID":"12"}'

**EyeCloud API**

1. GetDeviceParameters

Call to get Device Parameters

URL: [IP address]/eyecloud/api/V2/devices?name=Device5&phoneType=iphone6

Place token in the header: 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

Response (Status 200)

{

calcAngles = "0,320,280,240,200,160,120,80,40";

class = "com.eyeque.test.Device";

createdAt = "2016-07-07T20:56:32Z";

id = 1;

initialAngle = "-90";

initialDistance = "92.5";

lineLength = 40;

lineWidth = 21;

maxDistance = 115;

minDistance = 60;

name = Device5;

offCenterX = "-2";

offCenterY = 35;

phoneType = iPhone6;

rcAngles = "-90,-50,-10,30,70,110,150,190,230";

rotatedAngles = "0,0,0,0,0,0,0,0,0";

}

**Curl example:**

curl -X GET "http://192.168.110.85:8080/eyecloud/api/V2/devices?name=Device5&phoneType=iphone6" -H 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

1. UploadTestMeasurements

Call to upload Test Measurements

URL: [IP address]/eyecloud/api/V2/tests?subjectID=9

Place token in the header: 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

Request [POST]

{"accomPattern":"","binoOp":"No binocular","lineLength":40,"deviceName":"Device5","testType":"Full Refraction","screenProtect":false,"phoneType":"iPhone 6+","wearGlasses":false,"subjectID":9,"measures":[{"subjectID":9,"power":0,"angle":0,"rightEye":true,"distance":195,"duration":16.47837495803833},{"subjectID":9,"power":0,"angle":320,"rightEye":true,"distance":196,"duration":2.926409006118774},{"subjectID":9,"power":0,"angle":280,"rightEye":true,"distance":192,"duration":2.697341918945312},{"subjectID":9,"power":0,"angle":240,"rightEye":true,"distance":188,"duration":3.788577079772949},{"subjectID":9,"power":0,"angle":200,"rightEye":true,"distance":192,"duration":4.666412115097046},{"subjectID":9,"power":0,"angle":160,"rightEye":true,"distance":196,"duration":4.193701982498169},{"subjectID":9,"power":0,"angle":120,"rightEye":true,"distance":195,"duration":5.267577886581421},{"subjectID":9,"power":0,"angle":80,"rightEye":true,"distance":189,"duration":5.498701810836792},{"subjectID":9,"power":0,"angle":40,"rightEye":true,"distance":189,"duration":0.8837320804595947},{"subjectID":9,"power":0,"angle":0,"rightEye":false,"distance":177,"duration":6.408740997314453},{"subjectID":9,"power":0,"angle":320,"rightEye":false,"distance":171,"duration":4.658540964126587},{"subjectID":9,"power":0,"angle":280,"rightEye":false,"distance":171,"duration":0.9477889537811279},{"subjectID":9,"power":0,"angle":240,"rightEye":false,"distance":177,"duration":4.399869203567505},{"subjectID":9,"power":0,"angle":200,"rightEye":false,"distance":179,"duration":4.581927061080933},{"subjectID":9,"power":0,"angle":160,"rightEye":false,"distance":174,"duration":6.849893093109131},{"subjectID":9,"power":0,"angle":120,"rightEye":false,"distance":170,"duration":3.722357988357544},{"subjectID":9,"power":0,"angle":80,"rightEye":false,"distance":174,"duration":4.693467855453491},{"subjectID":9,"power":0,"angle":40,"rightEye":false,"distance":179,"duration":9.805833101272583}],"lineWidth":21}

Response (Status 201)  *The calcuated Result:*

{"id":2,"algorithm":"CurveFitting","axisOD":30.0,"axisOS":150.0,"createdAt":"2016-07-19T01:31:50Z","cylOD":-2.123756402777904,"cylOS":-2.0734729932800824,"duration":90.6330726146698,"rmseOD":0.08482332832699885,"rmseOS":0.016908511776753055,"score":40.0,"sphEOD":2.111111111111111,"sphEOS":-2.0992283954122337,"sphOD":3.1729893125000634,"sphOS":-1.0624918987721925,"statusType":2,"subjectID":9,"testConditionID":2}

**Curl example:**

curl -X POST "http://192.168.110.85:8080/eyecloud/api/V2/tests?subjectID=9" -H 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg

Content-Type: application/json –d ‘{"accomPattern":"","binoOp":"No binocular","lineLength":40,"deviceName":"Device5","testType":"Full Refraction","screenProtect":false,"phoneType":"iPhone 6+","wearGlasses":false,"subjectID":9,"measures":[{"subjectID":9,"power":0,"angle":0,"rightEye":true,"distance":195,"duration":16.47837495803833},{"subjectID":9,"power":0,"angle":320,"rightEye":true,"distance":196,"duration":2.926409006118774},{"subjectID":9,"power":0,"angle":280,"rightEye":true,"distance":192,"duration":2.697341918945312},{"subjectID":9,"power":0,"angle":240,"rightEye":true,"distance":188,"duration":3.788577079772949},{"subjectID":9,"power":0,"angle":200,"rightEye":true,"distance":192,"duration":4.666412115097046},{"subjectID":9,"power":0,"angle":160,"rightEye":true,"distance":196,"duration":4.193701982498169},{"subjectID":9,"power":0,"angle":120,"rightEye":true,"distance":195,"duration":5.267577886581421},{"subjectID":9,"power":0,"angle":80,"rightEye":true,"distance":189,"duration":5.498701810836792},{"subjectID":9,"power":0,"angle":40,"rightEye":true,"distance":189,"duration":0.8837320804595947},{"subjectID":9,"power":0,"angle":0,"rightEye":false,"distance":177,"duration":6.408740997314453},{"subjectID":9,"power":0,"angle":320,"rightEye":false,"distance":171,"duration":4.658540964126587},{"subjectID":9,"power":0,"angle":280,"rightEye":false,"distance":171,"duration":0.9477889537811279},{"subjectID":9,"power":0,"angle":240,"rightEye":false,"distance":177,"duration":4.399869203567505},{"subjectID":9,"power":0,"angle":200,"rightEye":false,"distance":179,"duration":4.581927061080933},{"subjectID":9,"power":0,"angle":160,"rightEye":false,"distance":174,"duration":6.849893093109131},{"subjectID":9,"power":0,"angle":120,"rightEye":false,"distance":170,"duration":3.722357988357544},{"subjectID":9,"power":0,"angle":80,"rightEye":false,"distance":174,"duration":4.693467855453491},{"subjectID":9,"power":0,"angle":40,"rightEye":false,"distance":179,"duration":9.805833101272583}],"lineWidth":21}’

1. Get Result by TestID

Call to get test result after upload successfully.

URL: [IP address]/eyecloud/api/V2/results?testID=1

Place token in the header: 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

Response (Status 200)

[{"class":"com.eyeque.test.Result","id":1,"algorithm":"CurveFitting","axisOD":4.0,"axisOS":1.0,"createdAt":"2016-07-11T21:50:26Z","cylOD":-2.590520390792032E-16,"cylOS":0.0,"duration":9.507373094558716,"rmseOD":0.0,"rmseOS":0.0,"score":40.0,"sphEOD":11.25,"sphEOS":0.0,"sphOD":11.25,"sphOS":0.0,"statusType":1,"subjectID":9,"testConditionID":1}]

**Curl example:**

curl -X GET "http://192.168.110.85:8080/eyecloud/api/V2/results?testID=1" -H 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

1. Get Vision Record When the score >= 100

Call to get visionRecords

URL: [IP address]/eyecloud/api/V2/visionRecords?subjectID=12

Place token in the header: 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

Response (Status 200)

{

"id": 5

"algorithm": "Average"

"axisOD": 30

"axisOS": 150

"createdAt": "2016-07-19T16:30:57Z"

"cylOD": -2.123756402777904

"cylOS": -2.0734729932800824

"duration": 0

"rmseOD": 0.08482332832699885

"rmseOS": 0.016908511776753055

"score": 120

"sphEOD": 2.111111111111111

"sphEOS": -2.0992283954122337

"sphOD": 3.1729893125000634

"sphOS": -1.0624918987721925

"statusType": 3

"subjectID": 9

"testConditionID": -1

}

**Curl example:**

curl -X GET "http://192.168.110.85:8080/eyecloud/api/V2/results? subjectID =9"

-H 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

1. Get max ID of results

Call to get maxID of results

URL: [IP address]/eyecloud/api/V2/results?maxID=true

Place token in the header: 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'

Response (Status 200)

{

"maxID": 7

}

**Curl example:**

curl -X GET "http://192.168.110.85:8080/eyecloud/api/V2/results?maxID=true" -H 'Authorization: Bearer e46cghc52pqd8kvgqmv8ovsi1ufcfetg'