

Web Service Implementation Details: Method-II

Brainmeasures provide an unique Numeric ID to all its client called **ProviderID** and a security code for authorized access to API.

This **ProviderID** and **SecurityCode** will be used to identify and authorize any client request.

BmApiUrl : URL of Brainmeasures API for client every client is provided with separate URL to access the API e.g.

<http://client.brainmeasures.com/testsi.asmx>

SOAP

<http://client.brainmeasures.com/testsi.asmx?soap>

WSDL

<http://client.brainmeasures.com/testsi.asmx?wsdl>

Once client get its **BmApiUrl**, it can be consumed in any environments like .net, php etc its

Common API Methods:

1. To access All the Tests allotted:

GetAllTests(**ProviderID**) will give list of all Tests allotted to Client with their respective TestID.

Here **TestID** is numeric ID of the test and each test at Brainmeasures has unique TestID

2. To get details of a particular Test:

GetTestByTestID(**TestID**)

e.g. GetTestByTestID(63) will give u detail of **TestID** =63 if allotted to client its noOfQuestion, time allowed, passing% etc.

e.g. for a client like

NoOfQuestions=20

PassingPercentage=50

TestDuration=20 minutes

3. To access Syllabus/Topics in a particular Test :

GetTopicByTestId(**TestID**)

e.g. GetTopicByTestId(63) gives you list of topics in TestID=63

4. To Get Provider User Test ID:

When a user want to take a test, you need to get its unique Numeric ID from Brainmeasures using GetProviderUserTestID Method of web service by providing all parameters:

ProViderUserTestId= GetProviderUserTestID(securityCode :-> The Security Code Provided by Brainmeasures,

ProviderId :-> Your Provider Id as Provided,

TestId :-> ID of Test to be Taken,

ticketTimeStamp :-> Date Time of test,

UserFName:-> First name of the Test Taker,

UserLName:-> Last name of the Test Taker,

email:-> valid Email of the Test Taker)

5. To Get Questions of a Test:

After getting the ProviderUserTestID from Brainmeasures you can get Questions of the test using GetQuestionTemplate Method as:

Questions=GetQuestionTemplate(utid:-> ProviderUserTestId for the test for which questions are required,

TestId:-> ID of the test for which questions required)

Above method will return you a collection of **Questions** and each question will have following properties:

Questions.QuestionId :-> Its Numeric Question ID,

Questions.Question :-> Description of the question,

Questions.Option1 :-> Answer Option1,
Questions.Option2 :-> Answer Option2,
Questions.Option3 :-> Answer Option3,
Questions.Option4 :-> Answer Option4,
Questions.Option5 :-> Answer Option5,
Questions.Image1 :-> URL of the question Image if question has image1,
Questions.Image2 :-> URL of the question Image if question has image2,
Questions.IsMultipleAns :-> True if Question has multiple answer else single answer)

After getting questions for the required test, you need to create Interface where user can take test using above questions.

6. To Get Result of the Test:

After taking the test from user using above question you can get result from Brainmeasures using GetResult Method by providing all required parameters as and it will return You **Result** as:

Result=GetResult(List[AnswerTemplate] :-> List of Answers of each Question of test,

UTId :-> ProviderUserTestId)

Each AnswerTemplate should have following values:

AnswerTemplate.QId = Its Numeric Question ID as provided in

Questions.QuestionId

AnswerTemplate.Ans = Answer of the Question as Given by Test taker as a String of 5 character 00100 where these 5 character are 5 options of the questions and 1 at any position represents that user has selected these as answer options,

AnswerTemplate.SrNo = Serial Number of Question in the provided Questions Set

AnswerTemplate.TopicId = 0 value always

AnswerTemplate.TopicName = "" always

Above GetResult Method will return you Result which will contain following Information in result

Result.Id=ProviderUserTestId

Result.NoOfQuestions=No of Questions in Test

Result.Correct= No of Correct Answer by Users

Result.InCorrect= No of wrong Answer by Users

Result.TopicDetails= List of Topics and Topic Wise Result and Each ResultTopic contain following properties:

ResultTopic.TopicName= Name of Topic in test questions

ResultTopic.NoCorrect= Number of Correct Answers for question of this Topic

ResultTopic.NoTotal= Total Number of questions in tests from this Topic

Note:

AnswerTemplate.Ans : Say an question has a,b,c,d as 4 answer options and user marked a and c as answer then the answer string will be :

AnswerTemplate.Ans=10100