MEIC API

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1   Java Script Version

API Library includes: /apps/meic/api/meic.js

1.1 Question module

1.1.1 Save User's Answer

-Submit user answer to server.

Function	meic_set_answer(que_idx,ans_idx,answer,is_right,mark)		
Parameter	que_idx	int	Question index
	ans_idx	int	Answer index
	answer	string	User's Answer
	is_right	int	1: represent correct
			0: represent incorrect
			-2: represent server check answer
	mark	int	determine the mark weight of the answer (If the weight is same, please insert 1 for all questions)

Return	que_idx	int	Question index
(JSON)	ans_idx	int	Answer index
	is_right	int	1: represent correct
			0: represent incorrect
			-1: can't specify correct (long question)
	answer	string	User's Answer
	times	int	Answered times
	result	int	1: disable the content and show correct answer, user can't modify
			0: do nothing, represent recall the answer
	corr_answer	string	FIB will be the correct answer text.
			MC will be the correct index.
			LQ will be the reference answer
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	thumbnail	string	Uploaded thumbnail server path
	user_id	int	User's ID

Return Example:

{"is_right":"1","times":"1"}

1.1.2   Get User's Answers – JSON

-Get answer from database, refill student answer or filling in the correct answer

Function	meic_get_answer_JSON(que_idx,ans_idx,user,res_idx)		
Parameter	que_idx (optional)	int	Question index
	ans_idx (optional)	int	Answer index
	user (optional)	string	['student'], ['myself'],[sub group id],[user id] or null(myself)
	res_idx (optional)	int	Status
			Default: current status
Return	que_idx	int	Question index
(JSON)	ans_idx	int	Answer index
	is_right	int	1: represent correct
			0: represent incorrect
			-1: can't specify correct (long question)
	answer	string	User's Answer
	times	int	Answered times
	result	int	1: disable the content and show correct answer, user can't modify
			0: do nothing, represent recall the answer
	corr_answer	string	FIB will be the correct answer text.
			MC will be the correct index.
			LQ will be the reference answer
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	thumbnail	string	Uploaded thumbnail server path
	user_id	int	User's ID

Return:

Json object. The following is an example,

[{"que_idx":1,"ans_idx":0,"is_right":0,"answer":"1","times":1,"filename":null,"filesize":null,"path":null,"result":1,"corr_answer":"2"},{"que_idx":2,"ans_idx":1,"is_right":0,"answer":"1","times":1,"filename":null,"filesize":null,"path":null,"thumbnail":null,"result":1,"corr_answer":"3"}]

If student doesn't answer any question, the following is an example,

[{"que_idx":1,"ans_idx":0,"is_right":0,"answer":null,"result":1,times":0,"filename":null,"filesize":null,"path":null,"corr_answer":"2"},{"que_idx":2,"ans_idx":1,"is_right":0,"answer":null,times":0,"filename":null,"filesize":null,"path":null,"thumbnail":null,"result":1,"corr_answer":"3"}
]

1.1.3 Get User's Answers - XML

-Get answer from database, refill student answer or filling in the correct answer

Function	meic_get_answer_XML(que_idx,ans_idx,user,res_idx)		
Parameter	que_idx (optional)	int	Question index
	ans_idx (optional)	int	Answer index
	User (optional)	string	['student'], ['myself'],[sub group id],[user id] or null(myself)
	res_idx (optional)	int	Status Default: current status
Return (XML)	que_idx	int	Question index
	ans_idx	int	Answer index
	is_right	int	1: represent correct 0: represent incorrect
	answer	string	User's Answer
	times	int	Answered times
	result	int	1: disable the content and show correct answer, user can't modify 0: do nothing, represent recall the answer
	corr_answer	string	FIB will be the correct answer text. MC will be the correct index. LQ will be the reference answer
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	thumbnail	string	Uploaded thumbnail server path
	user_id	int	User's ID

Return:

XML object. The following is an example,

```
<resource>
    <answer>
        <que_idx>1</que_idx>
        <ans_idx>0</ans_idx>
        <is_right>0</is_right>
        <answer>1</answer>
        <times>1</times>
```

```xml
            <filename></filename>
            <filesize></filesize>
            <path></path>
            <thumbnail></thumbnail>
            <result>1</result>
            <corr_answer>2</corr_answer>
        </answer>
        <answer>
            <que_idx>2</que_idx>
            <ans_idx>1</ans_idx>
            <is_right>0</is_right>
            <answer>1</answer>
            <times>1</times>
            <filename></filename>
            <filesize></filesize>
            <path></path>
            <thumbnail></thumbnail>
            <result>1</result>
            <corr_answer>3</corr_answer>
        </answer>
    </resource>
```

If student doesn't answer any question, the following is an example,

```xml
<resource>
        <answer>
            <que_idx>1</que_idx>
            <ans_idx>0</ans_idx>
            <is_right>0</is_right>
            <answer/>
            <times>0</times>
            <filename/>
            <filesize/>
            <path/>
            <thumbnail>
            <result>1</result>
            <corr_answer>2</corr_answer>
        </answer>
        <answer>
            <que_idx>2</que_idx>
            <ans_idx>1</ans_idx>
            <is_right>0</is_right>
            <answer/>
            <times>0</times>
```

```
        <filename/>
        <filesize/>
        <path/>
        <thumbnail>
        <result>1</result>
        <corr_answer>3</corr_answer>
    </answer>
</resource>
```

1.1.4 Upload User's File

-A question type and submit a file and upload to server.

Function	meic_file_upload (callback, input_id, filesize, que_idx, ans_idx)		
Parameter	callback	int	Function name of upload callback (eg. file_upload_callback(data))
	input_id	string	File element input box ID
	filesize	int	File size limitation
			0: unlimited
	que_idx	int	Question index
	ans_idx (optional)	int	Answer index
Return (JSON)	Calls callback function with JSON object		
	que_idx	int	Question index
	ans_idx	int	Answer index
	error	string	Error message
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	thumbnail	string	Uploaded thumbnail server path

Return:

Calls callback function with JSON object. The following is an example:

{"error":"","filename":"abc.png","filesize":"386","path":"http://school.mers.hk/img/abc.png"}

Remarks:

When file upload successful, error will be a null string, otherwise error will contain the error message. Please use this to be an indicator.

1.1.5 Upload User's File Action Path

-Get file upload action path.

Function	meic_get_file_upload_path(filesize, que_idx, ans_idx, thumbnail_width, thumbnail_height)

Parameter	filesize	int	File size limitation 0: unlimited
	que_idx	int	Question index
	ans_idx (optional)	int	Answer index
	thumbnail_width (optional)	int	Thumbnail Width
	thumbnail_height (optional)	int	Thumbnail Height
Return (JSON)	path	String	Upload file path

Return:

Json object. The following is an example,

{"path":"/apps/meic/ajax/file_upload.php?room_id=1030&res_id=2&user_id=37727&filesize=0&res_idx=1&que_idx=1&ans_idx=1&res_upload_abs_path=/xampp/htdocs/apps/meic/upload&res_upload_rel_path=/apps/meic/upload&url=http://192.168.13.105/apps/meic/ajax/file_upload_record.php"}

1.2 Function Module

1.2.1 Static Data

1.2.1.1 Save Static Data

-Save Static Function Data.

Function	meic_set_function_data(function, data, to_user, from_user)		
Parameter	function	string	Function name
	data	string	Data
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
Return	true	boolean	Data saved

Remarks:

all – auto convert to all members' user_id

teacher – auto convert to teacher's user_id

student – auto convert to all students' user_id

myself – auto convert to self's user_id

sub_group_id – auto convert to sub-group members' user_id

user id – assign to specified user

1.2.1.2 Static File Upload

-A question type and submit a file and upload to server.

Function	meic_set_function_file(callback, input_id, filesize, function, to_user, from_user, thumbnail_width, thumbnail_height)		
Parameter	callback	int	Function name of upload callback (eg. file_upload_callback(data))
	input_id	string	File element input box ID
	filesize	int	File size limitation 0: unlimited
	function	string	Function name
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	thumbnail_width (optional)	int	Resize image file to specific width, defaut 150px
	thumbnail_height (optional)	int	Resize image file to specific height, defaut 150px
Return (JSON)	Calls callback function with JSON object		
	error	string	Error message
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path

Return:

Calls callback function with JSON object. The following is an example:

{"error":"","filename":"abc.png","filesize":"386","path":"http://school.mers.hk/img/abc.png"}

Remarks:

When file upload successful, error will be a null string, otherwise error will contain the error message. Please use this to be an indicator.

1.2.1.3 Static File Upload Action Path

-Get file upload action path.

Function	meic_get_function_file_upload_path(filesize, function, to_user, from_user)		
Parameter	filesize	int	File size limitation 0: unlimited
	function	string	Function name
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
Return (JSON)	path	String	Upload file path

Return:

Json object. The following is an example,

{"path":"/apps/meic/ajax/file_upload.php?room_id=1030&res_id=2&user_id=37727&filesize=0&res_idx=1&to_user=myself&from_user=myself&res_upload_abs_path=/xampp/htdocs/apps/meic/upload&res_upload_rel_path=/apps/meic/upload&url=http://192.168.13.105/apps/meic/ajax/file_upload_record

.php"}

1.2.1.4 Get Static Data - JSON

-Get Static Function Data by JSON Format.

Function	meic_get_function_data_JSON(function, to_user, from_user, history, res_idx)		
Parameter	function	string	Function name
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(all)
	history (optional)	boolean	1: include history data 0 or null : last updated data only
	res_idx (optional) (offline use)	int	Default null: current page
Return (JSON)	his_id (history mode)	int	History Data id
	id	int	Data id
	from_user_id	int	From user id
	from_user_name	string	From user name
	to_user_id	int	To user id
	to_user_name	string	To user name
	function	string	Function name
	data	int	Data
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	createdate	string	Save Date

Return:

Sort by createdate ascending

[{"id":1,"from_user_id":1,"from_user_name":"student1","to_user_id":2,"to_user_name":"student2","function":"CHALLENGE","filename":null,"filesize":null,"path":null,"createdae":"2012-01-0112:10:10},{"id":1,"from_user_id":2,"from_user_name":"student2","to_user_id":1,"to_user_name":"student1,"function":"CHALLENGE","filename":null,"filesize":null,"path":null,"createdae":"2012-01-0112:10:10}]

1.2.1.5 Get Static Data – XML

-Get Static Function last update data by XML Format.

Function	meic_get_function_data_XML(function, to_user, from_user, history, res_idx)

Parameter	function	string	Function name
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(all)
	history (optional)	boolean	1: include history data 0 or null : last updated data only
	res_idx (optional) (offline use)	int	Default null : current page
Return (XML)	id	int	Data id
	from_user_id	int	From user id
	from_user_name	string	From user name
	to_user_id	int	To user id
	to_user_name	string	To user name
	function	string	Function name
	data	int	Data
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	createdate	string	Save Date

Return:

Sort by createdate ascending

1.2.1.6 Remove Static function Data

-Remove Static Function Data.

Function	meic_remove_function_data(data_id, function, to_user, from_user, status, activity_global)		
Parameter	data_id (optional)	int	Delete by data id
	Function (optional)	string	Function name
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	status (optional)	int	Page no
	activity_global (optional)	boolean	0 or null : data pass across in the page only 1: data pass across in the activity
Return	true	boolean	data removed

1.2.2 Interaction Data

1.2.2.1 Add Thread

-Every 3 seconds (base on game's setting) pass function data to javascript function

Function	meic_set_function_data_thread(callback, function, to_user, from_user, history, activity_global)

Parameter	callback	string	Function name of callback (eg. do_action(data))
	function	string	Function name
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(all)
	history (optional)	boolean	0 or null : last updated data only 1: include history data
	activity_global (optional)	boolean	0 or null : data pass across in the page only 1: data pass across in the activity
Return	thread_id	int	Thread ID
Callback function Variable (JSON)	Calls callback function with JSON object		
	id	int	Data id
	from_user_id	int	From user id
	from_user_name	string	From user name
	to_user_id	int	To user id
	to_user_name	string	To user name
	function	string	Function name
	data	int	Data
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	createdate	string	Save Date

Return:

Sort by createdate ascending

1.2.2.2 Remove Thread

-Remove Processing Thread

Function	meic_remove_function_data_thread (thread_id)		
Parameter	Thread_id	string	Thread ID
Return	true	boolean	Thread removed

1.3 System Module

1.3.1 Get Member List - JSON

-Get room current member list

Function	meic_get_member_list_JSON(user)		
Parameter	user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(all)

Return (JSON)	id	int	User's ID
	name	string	User's name
	login	int	1: logined
			0: not login
	connect	int	1: connecting
			0: disconnected
	profile	string	teacher
			student

1.3.2 Get Member List - XML

-Get room current member list

Function	meic_get_member_list_XML(user)		
Parameter	user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(all)
Return (XML)	id	int	User's ID
	name	string	User's name
	login	int	1: logined
			0: not login
	connect	int	1: connecting
			0: disconnected
	profile	string	teacher
			student

1.3.3 Get Group List - JSON

-Get room current group list

Function	meic_get_group_list_JSON(user)		
Parameter	user (optional)	string	['student'],['all'],['myself'],[sub group id], [user id] or null(all)
Return (JSON)	id	int	Group's ID
	name	string	Group's name
	color	string	Group's color
	member_count	int	Group's member count

1.3.4 Get Group List - XML

-Get room current group list

Function	meic_get_group_list_XML(user)		
Parameter	user (optional)	string	['student'],['all'],['myself'],[sub group id], [user id] or null(all)

Return (XML)	id	int	Group's ID
	name	string	Group's name
	color	string	Group's color
	member_count	int	Group's member count

1.4 Get User's Status

-get user's current status

Function	meic_get_user_status()		
Return (JSON)	user_id	int	User ID
	user_name	string	User name
	group_id	string	Group ID
	class_name	string	User class name
	status	int	Current status
			1-n: room starting
			0: room closed
	profile	string	student
			teacher

1.5 Get Room's Parameter

-get system's parameter for external apps use

Function	meic_get_room_parameter()		
Return (String)	user_id	int	User ID
	ug_id	int	Class ID
	g_id	int	Group ID
	res_id	string	Game ID
	res_path	int	Game path
	rr_id	int	Room ID
	res_idx	int	Current status
	up_id	int	User profile ID

1.6 Get Room's Config

-get status, room black screen, teacher control and sync seconds function

Function	meic_get_room_config()

Return (JSON)	status	int	Current status
			-2: room not create
			-1: room created
			1-n: room starting
			0: room closed
	black_screen	int	1: black screen enable
			0: black screen disable
	teacher_control	int	1: teacher screen enable
			0: teacher screen disable
	show_correct	int	1: show correct
			0: do not show correct
	show_answer	int	1: show answer
			0: do not show answer
	redo_times	int	Redo times
	syn_seconds	int	Sync data seconds

2 PHP Version

API Library includes: /apps/meic/api/meic.php

2.1 Question module

2.1.1 Save User's Answer

-Submit user answer to server.

Function	meic_set_answer(que_idx,ans_idx,answer,is_right,mark)		
Parameter	que_idx	int	Question index
	ans_idx	int	Answer index
	answer	string	User's Answer
	is_right	int	1: represent correct
			0: represent incorrect
			-2: represent server check answer
	mark	int	determine the mark weight of the answer (If the weight is same, please insert 1 for all questions)

Return (Array)	que_idx	int	Question index
	ans_idx	int	Answer index
	is_right	int	1: represent correct
			0: represent incorrect
			-1: can't specify correct (long question)
	answer	string	User's Answer
	times	int	Answered times
	result	int	1: disable the content and show correct answer, user can't modify
			0: do nothing, represent recall the answer
	corr_answer	string	FIB will be the correct answer text.
			MC will be the correct index.
			LQ will be the reference answer
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	thumbnail	string	Uploaded thumbnail file server path
	user_id	int	User's ID

2.1.2 Get User's Answers

-Get answer from database, refill student answer or filling in the correct answer

Function	meic_get_answer(que_idx,ans_idx,user,res_idx)		
Parameter	que_idx (optional)	int	Question index
	ans_idx (optional)	int	Answer index
	user (optional)	string	['student'], ['myself'],[sub group id],[user id] or null(myself)
	res_idx (optional)	int	Status
			Default: current status
Return (array)	que_idx	int	Question index
	ans_idx	int	Answer index
	is_right	int	1: represent correct
			0: represent incorrect
			-1: can't specify correct (long question)
	answer	string	User's Answer
	times	int	Answered times
	result	int	1: disable the content and show correct answer, user can't modify
			0: do nothing, represent recall the answer
	corr_answer	string	FIB will be the correct answer text.
			MC will be the correct index.
			LQ will be the reference answer
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	thumbnail	string	Uploaded thumbnail server path
	user_id	int	User's ID

2.1.3 Upload User's File Action Path

-Get file upload action path.

Function	meic_get_file_upload_path (filesize, que_idx, ans_idx, thumbnail_width, thumbnail_height)		
Parameter	filesize	int	File size limitation 0: unlimited
	que_idx	int	Question index
	ans_idx (optional)	int	Answer index
	thumbnail_width (optional)	int	Thumbnail Width
	thumbnail_height (optional)	int	Thumbnail Height
Return (Array)	path	String	Upload file path

- submit a file and upload to server.

Action URL	Calls upload user's file action path (1.1.5)		
Return (JSON)	que_idx	int	Question index
	ans_idx	int	Answer index
	error	string	Error message
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	thumbnail	string	Uploaded thumbnail server path

Return:

JSON object. The following is an example:

{"error":"","filename":"abc.png","filesize":"386","path":"http://school.mers.hk/img/abc.png"}

Remarks:

When file upload successful, error will be a null string, otherwise error will contain the error message. Please use this to be an indicator.

2.2 Function Module

2.2.1 Static Data

2.2.1.1 Save Static Data

-Same as 1.2.1.1

2.2.1.2 Static File Upload Action Path
-Get file upload action path.

Function	meic_get_function_file_upload_path (filesize, function, to_user, from_user)		
Parameter	filesize	int	File size limitation 0: unlimited
	function	string	Function name
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
Return	path	String	Upload file path

-submit a file and upload to server.

Action URL	Calls static file upload action path (2.2.1.3, 1.2.1.3)		
Return (JSON)	error	string	Error message
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path

Return:

JSON object. The following is an example:

{"error":"","filename":"abc.png","filesize":"386","path":"http://school.mers.hk/img/abc.png"}

Remarks:

When file upload successful, error will be a null string, otherwise error will contain the error message. Please use this to be an indicator.

2.2.1.3 Get Static Data
-Get Static Function.

Function	meic_get_function_data(function, to_user, from_user, history, res_idx)		
Parameter	function	string	Function name
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(all)
	history (optional)	boolean	1: include history data 0 or null : last updated data only
	res_idx (optional) (offline use)	int	Default null: current page

Return (array)	his_id (history mode)	int	History Data id
	id	int	Data id
	from_user_id	int	From user id
	from_user_name	string	From user name
	to_user_id	int	To user id
	to_user_name	string	To user name
	function	string	Function name
	data	int	Data
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	createdate	string	Save Date

2.2.1.4 Remove Static function Data

-Same as 1.2.1.6

2.3 System Module

2.3.1 Get Member List

-Get room current member list

Function	meic_get_member_list(user)		
Parameter	user (optional)	string	['student'],['all'],['myself'],[sub group id], [user id] or null(all)
Return (JSON)	id	int	User's ID
	name	string	User's name
	login	int	1: logined 0: not login
	connect	int	1: connecting 0: disconnected
	profile	string	teacher student

2.3.2 Get Group List

-Get room current group list

Function	meic_get_group_list(group_id)		
Parameter	Group_id (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(all)
Return (array)	id	int	Group's ID
	name	string	Group's name
	color	string	Group's color
	member_count	int	Group's member count

2.4 Get User's Status

-get user's current status

URL	meic_get_user_status()		
Return (Array)	user_id	int	User ID
	user_name	string	User name
	group_id	string	Group ID
	class_name	string	User class name
	status	int	Current status
			1-n: room starting
			0: room closed
	profile	string	student
			teacher

2.5 Get Room's Parameter

-get system's parameter for external apps use

Function	meic_get_room_parameter()		
Return (String)	user_id	int	User ID
	ug_id	int	Class ID
	g_id	int	Group ID
	res_id	string	Game ID
	res_path	int	Game path
	rr_id	int	Room ID
	res_idx	int	Current status
	up_id	int	User profile ID

2.6 Get Room's Config

-get status, room black screen, teacher control and sync seconds function

Function	meic_get_room_config()		
Return (Array)	status	int	Current status
			-2: room not create
			-1: room created
			1-n: room starting
			0: room closed
	black_screen	int	1: black screen enable
			0: black screen disable
	teacher_control	int	1: teacher screen enable
			0: teacher screen disable
	show_correct	int	1: show correct
			0: do not show correct
	show_answer	int	1: show answer
			0: do not show answer
	redo_times	int	Redo times
	syn_seconds	int	Sync data seconds

3 URL Request

3.1 Save User's Answer

-Submit user answer to server.

URL	http://{merp2_server}/apps/meic/api/meic_set_answer.php		
Method	Get, Post		
Parameter	para	string	Room parameter, get form 1.5, 2.5, 3.5
	que_idx	int	Question index
	ans_idx	int	Answer index
	answer	string	URL encoded User Answer
	is_right	int	1: represent correct
			0: represent incorrect
			-2: represent server check answer
	mark	int	determine the mark weight of the answer (If the weight is same, please insert 1 for all questions)
Return (JSON)	is_right	int	Null: no need to show correct/ incorrect
			1: user answer correct
			0: user answer incorrect
	times	int	Answered times

Example:

/apps/meic/api/meic_set_answer.php?que_idx=1&ans_idx=1&answer=abc&is_right=1&mark=1

Return:

{"is_right":"1","times":"1"}

3.2 Save Static Data

-Save Static Function Data.

Function	http://{merp2_server}/apps/meic/api/meic_set_function_data.php		
Method	Get, Post		
Parameter	para	string	Room parameter, get form 1.5, 2.5, 3.4
	function	string	Function name
	data	string	Data
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
Return	true	boolean	Data saved

3.3 Get Static Data

-Get Static Function Data.

Function	http://{merp2_server}/apps/meic/api/meic_get_function_data.php

Method	Get, Post		
Parameter	para	string	Room parameter, get form 1.5, 2.5, 3.5
	function	string	Function name
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(all)
	history (optional)	boolean	1: include history data 0 or null : last updated data only
Return (JSON)	his_id (history mode)	int	History Data id
	id	int	Data id
	from_user_id	int	From user id
	from_user_name	string	From user name
	to_user_id	int	To user id
	to_user_name	string	To user name
	function	string	Function name
	data	int	Data
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	createdate	string	Save Date

3.4 Get School's Opened Classes

-Submit user answer to server.

URL	http://{merp2_server}/apps/meic/api/meic_get_room_class.php		
Method	Get		
Parameter	school_id	int	School ID
Return (JSON)	ug_id	int	Class ID

Example:

/apps/meic/api/meic_get_room_class.php?school_id=1

Return:

[{"ug_id":"1"},{"ug_id":"2"}]

3.5 Get Room's Parameter

-get system's parameter for external apps use

URL	http://{merp2_server}/apps/meic/api/meic_get_room_parameter.php		
Method	Get		
Parameter	user_id	int	User ID
	res_id	int	Activity ID

Return (JSON)	user_id	int	User ID
	ug_id	int	Class ID
	g_id	int	Group ID
	res_id	string	Game ID
	res_path	int	Game path
	rr_id	int	Room ID
	res_idx	int	Current status
	up_id	int	User profile ID

3.6   Set Room's Config

-set room black screen or teacher control function

URL	http://{merp2_server}/apps/meic/api/meic_set_room_config.php		
Method	Get		
Parameter	para	string	Room parameter, get form 1.5,2.5,3.5
	black_screen (optional)	int	1: black screen enable 0 or null: black screen disable
	teacher_control (optional)	int	1: teacher screen enable 0 or null: teacher screen disable
Return (JSON)	status	int	Current status
	black_screen	int	1: black screen enable 0: black screen disable
	teacher_control	int	1: teacher screen enable 0: teacher screen disable

3.7   Get Room's Config

-get room black screen or teacher control function

URL	http://{merp2_server}/apps/meic/api/meic_get_room_config.php		
Method	Get		
Parameter	para	string	Room parameter, get form 1.4, 2.4, 3.5
Return (JSON)	status	int	Current status 1-n: room starting 0: room closed
	black_screen	int	1: black screen enable 0: black screen disable
	show_correct	int	1: show correct 0: do not show correct
	show_answer	int	1: show answer 0: do not show answer
	teacher_control	int	1: teacher screen enable 0: teacher screen disable
	redo_times	int	Redo times
	syn_seconds	int	Sync data seconds

4 Tablet MERS app Request

4.1 Get Room's Config

-get status, room black screen, teacher control and sync seconds function

URL	http://{merp2_server}/apps/meic/api/meic_tablet_get_room_config.php		
Method	Get, Post		
Parameter	user_id	int	User ID
	res_id	int	Activity ID
Return (JSON)	status	int	Current status
			-2: room not create
			-1: room created
			1-n: room starting
			0: room closed
	black_screen	int	1: black screen enable
			0: black screen disable
	teacher_control	int	1: teacher screen enable
			0: teacher screen disable
	show_correct	int	1: show correct
			0: do not show correct
	show_answer	int	1: show answer
			0: do not show answer
	redo_times	int	Redo times
	syn_seconds	int	Sync data seconds
	page_config	array	Page config
	↳ res_idx	int	Page no
	↳ show_correct	int	1: show correct
			0: do not show correct
	↳ show_answer	int	1: show answer
			0: do not show answer
	↳ redo_times	int	Redo times

4.2 Set Answer and Static Data (URL encoded JSON string, old version)

-post total of resource resource question and function data record

URL	http://{merp2_server}/apps/meic/api/meic_tablet_set_data.php		
Method	Get, Post		
Parameter	user_id	int	User ID
	data (JSON)	string	Contain savequestion and savefunctiondata json width JSON format, same as 4.3 return
Return (JSON)	save_done	int	1: saved
			0: error

Parameter data:

JSON object. The following is an example:

[{"action":"savequestion","res_id",1,"res_idx":1,"data":url_encoded_string},

{"action":"savequestion","res_id",1,"res_idx":2,"data":url_encoded_string},

{"action":"savefunctiondata","res_id",1,"res_idx":1,"data":url_encoded_string}]

4.3   Set Answer and Static Data

-post total of resource resource question and function data record

URL	http://{merp2_server}/apps/meic/api/meic_tablet_set_data_v2.php		
Method	Get, Post		
Parameter	user_id	int	User ID
	data (JSON)	string	Contain savequestion and savefunctiondata json width JSON format, same as 4.3 return
Return (JSON)	save_done	int	1: saved 0: error

Parameter data:

JSON object. The following is an example:

[{"action":"savequestion","res_id",1,"res_idx":1,"data":json},

{"action":"savequestion","res_id",1,"res_idx":2,"data":json},

{"action":"savefunctiondata","res_id",1,"res_idx":1,"data":json}]

4.4   Get Answer and Static (URL encoded JSON string, old version)

-return total of resource question and function data record

URL	http://{merp2_server}/apps/meic/api/meic_tablet_get_data.php		
Method	Get, Post		
Parameter	user_id	int	User ID
	res_id	int	Activity ID
Return (JSON)	Answer record		
	action	string	savequestion
	res_id	int	Activity ID
	res_idx	int	Page no
	data	string	Answer record
	Function data record		
	action	string	savefunctiondata
	res_id	int	Activity ID
	res_idx	int	Page no
	data	string	Function data record

Return:

JSON object. The following is an example:

[{"action":"savequestion","res_id",1,"res_idx":1,"data":url_encoded_string},

{"action":"savequestion","res_id",1,"res_idx":2,"data":url_encoded_string},

{"action":"savefunctiondata","res_id",1,"res_idx":1,"data":url_encoded_string}]

4.5   Get Answer and Static

-return total of resource question and function data record

URL	http://{merp2_server}/apps/meic/api/meic_tablet_get_data_v2.php		
Method	Get, Post		
Parameter	user_id	int	User ID
	res_id	int	Activity ID
Return (JSON)	Answer record		
	action	string	savequestion
	res_id	int	Activity ID
	res_idx	int	Page no
	data	string	Answer record
	Function data record		
	action	string	savefunctiondata
	res_id	int	Activity ID
	res_idx	int	Page no
	data	string	Function data record

Return:

JSON object. The following is an example:

[{"action":"savequestion","res_id",1,"res_idx":1,"data":json},

{"action":"savequestion","res_id",1,"res_idx":2,"data":json},

{"action":"savefunctiondata","res_id",1,"res_idx":1,"data":json}]

4.6   Upload Answer File Action Path

-Get file upload action path.

Function	http://{merp2_server}/apps/meic/api/meic_tablet_get_file_upload_path.php		
Method	Get		
Parameter	res_id	int	Activity' ID
	res_idx	int	Page No
	user_id	int	User's ID
	filesize	int	File size limitation 0: unlimited
	que_idx	int	Question index
	ans_idx (optional)	int	Answer index
	thumbnail_width (optional)	int	Thumbnail Width
	thumbnail_height (optional)	int	Thumbnail Height
Return (JSON)	path	String	Upload file path

- submit a file and upload to server.

Action URL	Calls upload user's file action path		
Return (JSON)	que_idx	int	Question index
	ans_idx	int	Answer index
	error	string	Error message
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path
	thumbnail	string	Uploaded thumbnail server path

4.7 Upload Function File Action Path

-Get file upload action path.

Function	http://{merp2_server}/apps/meic/api/meic_tablet_get_function_file_upload_path.php		
Method	Get		
Parameter	res_id	int	Activity' ID
	res_idx	int	Page No
	user_id	int	User's ID
	filesize	int	File size limitation 0: unlimited
	function	string	Function name
	to_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
	from_user (optional)	string	['teacher'],['student'],['all'],['myself'],[sub group id],[user id] or null(myself)
Return (JSON)	path	String	Upload file path

-submit a file and upload to server.

Action URL	Calls static file upload action path		
Return (JSON)	error	string	Error message
	filename	string	User's uploaded file name
	filesize	int	User's uploaded file size
	path	string	Uploaded file server path

4.8 Get User's Status

-get user's current status

URL	http://{merp2_server}/apps/meic/api/meic_tablet_get_user_status.php		
Method	Get		
Return (JSON)	user_id	int	User ID
	user_name	string	User name
	group_id	string	Group ID
	class_name	string	User class name
	status	int	Current status 1-n: room starting 0: room closed
	profile	string	student teacher