

# **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_an	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		int	Question index
	ans idx (optional) i		int	Answer index
	user (optional)		string	g ['student'], ['myself'], [sub group id], [user id]
				or null(myself)
	res_idx (option	al)	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,"result":1,"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 (option	nal)	int	Answer index
	User (optional)	)	string	['student'], ['myself'],[sub group id],[user id]
				or null(myself)
	res_idx (option	al)	int	Status
				Default: current status
Return	que_idx	int	(	Question index
(XML)	ans_idx	int	A	Answer index
	is_right	int	1	: represent correct
			(	): represent incorrect
	answer	string	, I	Jser's Answer
	times	int	A	Answered times
	result	int		: disable the content and show correct answer, user can't modify
				): do nothing, represent recall the answer
	corr answer	string		FIB will be the correct answer text.
	_			MC will be the correct index.
			I	Q will be the reference answer
	filename	string	, l	Jser's uploaded file name
	filesize	int	J	Jser's uploaded file size
	path	string	; (	Jploaded file server path
	thumbnail	string	; (	Jploaded thumbnail server path
	user_id	int	J	Jser's ID

#### Return:

```
XML object. The following is an example,
```

<resource>

<answer>
<que\_idx>1</que\_idx>
<que\_idx>0</ans\_idx>
<ans\_idx>0</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>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,
<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/>
<path/>
<thumbnail>
<result>1</result>
<corr_answer>3</corr_answer>
</resource>
```

# 1.1.4 Upload User's File

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

Function	meic_file_uploa	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 (option	nal)	int	Answer index	
Return	Calls callback	function	n with J	SON object	
(JSON)	que_idx	int	Q	Question index	
	ans_idx	int	A	inswer index	
	error	string	E	rror message	
	filename	string	U	Jser's uploaded file name	
	filesize	int	U	Jser's uploaded file size	
	path	string	U	ploaded file server path	
	thumbnail	string	U	ploaded 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)	



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

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	meic_set_function_data(function, data, to_user, from_user)				
Parameter	function	string	Function name			
	data	string	Data			
	to_user	string	['teacher'],['student'],['all'],['myself'],[su			
	(optional)		b group id],[user id] or null(myself)			
	from_user	string	['teacher'],['student'],['all'],['myself'],[su			
	(optional)		b 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.
	Currouck	1110	file upload callback(data))
	input id	string	= 1 = \ '//
	input_id	_	<u> </u>
	filesize	int	File size limitation
			0: unlimited
	function	string	Function name
	to_user	string	2 3/6 3/6 3
	(optional)		group id],[user id] or null(myself)
	from_user	string	['teacher'],['student'],['all'],['myself'],[sub
	(optional)		group id],[user id] or null(myself)
	thumbnail_widt	th int	Resize image file to specific width, defaut 150px
	(optional)		
	thumbnail heig	ht int	Resize image file to specific height, defaut 150px
	(optional)		
Return	Calls callback f	unction with	JSON object
(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

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_f	ile_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,

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



#### 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,			
	activity_global)			
Parameter	function	string	Function name	
	to_user	string	['teacher'],['student'],['all'],['myself'],[sub	
	(optional)		group id],[user id] or null(myself)	
	from_user	string	['teacher'],['student'],['all'],['myself'],[sub	
	(optional)		group id],[user id] or null(all)	
	history	boolean	1: include history data	
	(optional)		0 or null: last updated data only	
	activity_global	boolean	0 or null: data pass across in the page only	
	(optional)		1: data pass across in the activity	
Return	his_id	int	History Data id	
(JSON)	(history mode)			
	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		
	filesize	int	User's uploaded file size	
	path	string	1	
	createdate	string	Save Date	

#### Return:

Sort by createdate ascending

 $\label{lem:continuity} $$ [\{"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,		
	activity_global)			
Parameter	function	string	Function name	
	to_user	string	['teacher'],['student'],['all'],['myself'],[sub	
	(optional)		group id],[user id] or null(myself)	
	from_user	string	['teacher'],['student'],['all'],['myself'],[sub	
	(optional)		group id],[user id] or null(all)	
	history	boolean	1: include history data	
	(optional)		0 or null: last updated data only	
	activity_global	boolean	0 or null: data pass across in the page only	
	(optional)		1: data pass across in the activity	



Return	id	int	Data id
(XML)	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

Sort by createdate ascending

#### 1.2.1.6 Remove Static function Data

-Remove Static Function Data.

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



Return	thread_id	int	Thread ID
Callback	Calls callback function	on with JSON o	<u>object</u>
function	id	int	Data id
Variable	from_user_id	int	From user id
(JSON)	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

Sort by createdate ascending

### 1.2.2.2 Remove Thread

-Remove Processing Thread

Function	meic_remove_t	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_men	meic get member list JSON(user)		
Parameter	user	string	['teacher'],['student'],['all'],['myself'],[sub group	
	(optional)		id],[user id] or null(all)	
Return	id	int	User's ID	
(JSON)	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_mem	meic_get_member_list_XML(user)		
Parameter	user	string	['teacher'],['student'],['all'],['myself'],[sub group	
	(optional)		id],[user id] or null(all)	
Return	id	int	User's ID	
(XML)	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	string	['student'],['all'],['myself'],[sub group id],
	(optional)		[user id] or null(all)
Return	id	int	Group's ID
(JSON)	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_	meic_get_group_list_XML(user)		
Parameter	user	string	['student'],['all'],['myself'],[sub group id],	
	(optional)		[user id] or null(all)	
Return	id	int	Group's ID	
(XML)	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	user_id	int	User ID
(JSON)	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_confi	g()	
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
	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_ansv	wer(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
(Array)	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	que_idx	int	Question index
(array)	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_file_upload_pa	meic_file_upload_path(filesize, que_idx, ans_idx)				
Parameter	filesize	filesize int File size limitation				
			0: unlimited			
	que_idx	que_idx int Question index				
	ans_idx (optional)	int	Answer index			
Return	path	String	Upload file path			
(Array)						

- submit a file and upload to server.

Action URL	Calls upload user's file action path (1.1.5)			
Return	que_idx	que idx int Question index		
(JSON)	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_func	tion_file_uploa	nd_path (filesize, function, to_user, from_user)
Parameter	filesize	int	File size limitation
			0: unlimited
	function	string	Function name
	to_user	string	['teacher'],['student'],['all'],['myself'],[sub
	(optional)		group id],[user id] or null(myself)
	from_user	string	['teacher'],['student'],['all'],['myself'],[sub
	(optional)		group id],[user id] or null(myself)
Return	path	String	Upload file path

<sup>-</sup>submit a file and upload to server.

Action URL	Calls static file upload action path (2.2.1.3, 1.2.1.3)		
Return	error	string	Error message
(JSON)	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, activity global)



Parameter	function	string	Function name
T dramotor	to_user	string	['teacher'],['student'],['all'],['myself'],[sub
	<del>_</del>	string	
	(optional)	, .	group id],[user id] or null(myself)
	from_user	string	['teacher'],['student'],['all'],['myself'],[sub
	(optional)		group id],[user id] or null(all)
	history	boolean	1: include history data
	(optional)		0 or null: last updated data only
	activity_global	boolean	0 or null: data pass across in the page only
	(optional)		1: data pass across in the activity
Return	his_id	int	History Data id
(array)	(history mode)		
	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	string	['student'],['all'],['myself'],[sub group id],
	(optional)		[user id] or null(all)
Return	id	int	User's ID
(JSON)	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	string	['teacher'],['student'],['all'],['myself'],[sub group
	(optional)		id],[user id] or null(all)
Return	id	int	Group's ID
(array)	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_use	meic_get_user_status()		
Return	user_id	int	User ID	
(Array)	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	status	int	Current status
(Array)			-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
	syn_seconds	int	Sync data seconds

# 3 URL Request

#### 3.1 Save User's Answer

-Submit user answer to server.

URL	http://{merj	p2_server}/ap	pps/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	is_right	int	Null: no need to show correct/incorrect
(JSON)			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	string	['teacher'],['student'],['all'],['myself'],[su
	(optional)		b group id],[user id] or null(myself)
	from_user	string	['teacher'],['student'],['all'],['myself'],[su
	(optional)		b group id],[user id] or null(myself)
Return	true	boolean	Data saved

#### 3.3 Get Static Data

-Get Static Function Data.

Function	http://{merp2_serv	er}/apps/m	eic/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	string	['teacher'],['student'],['all'],['myself'],[sub
	(optional)		group id],[user id] or null(myself)
	from_user	string	['teacher'],['student'],['all'],['myself'],[sub
	(optional)		group id],[user id] or null(all)
	history	boolean	, i
	(optional)		0 or null: last updated data only
	activity_global	boolean	0 or null: data pass across in the page only
	(optional)		1: data pass across in the activity
Return	his_id	int	History Data id
(JSON)	(history mode)		
	id	int	Data id
	from_user_id	int	From user id
	from_user_name	_	From user name
	to_user_id	int	To user id
	to_user_name	_	To user name
	function	string	
	data	int	Data
	filename	string	-
	filesize	int	User's uploaded file size
	path	string	-
	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:**

 $/apps/meic/api/meic\_get\_room\_class.php?school\_id=1$ 



[{"ug\_id":"1"},{"ug\_id":"2"}]

#### 3.5 Get Room's Parameter

-get system's parameter for external apps use

URL	http://{merp2	2_server}/a	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 II	D
	res_id	string	Game II	)
	res_path	int	Game pa	ath
	rr_id	int	Room II	D
	res_idx	int	Current status	
	up_id	int	User pro	ofile ID

### 3.6 Set Room's Config

-set room black screen or teacher control function

URL	http://{merp2_server}/a	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	int	1: black screen enable
	(optional)		0 or null: black screen disable
	teacher_control	int	1: teacher screen enable
	(optional)		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/ap	pi/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
	teacher_control	int	1: teacher screen enable
	_		0: teacher screen disable

# 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_serve	er}/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
	syn_seconds	int	Sync data seconds

#### 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":urlencoded_json_string},
{"action":"savequestion","res_id",1,"res_idx":2,"data":urlencoded_json_string},
{"action":"savefunctiondata","res_id",1,"res_idx":1,"data":urlencoded_json_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 Data (URL encoded JSON string, Old version)

-return total of resource question and function data record

URL	http://{merp2 s	server}/a	pps/	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 r	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":urlencoded_json_string},
{"action":"savequestion","res_id",1,"res_idx":2,"data":urlencoded_json_string},
{"action":"savefunctiondata","res_id",1,"res_idx":1,"data":urlencoded_json_string}]
```

#### 4.5 Get Answer and Static Data

-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 r	ecord		
	action	string		savefunctiondata
	res_id	int		Activity ID
	res_idx	int		Page no
	data	string		Function data record

**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/mei	c/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
Return	path	String	Upload file path
(JSON)			

- submit a file and upload to server.

Action URL	Calls upload u	Calls upload user's file action path				
Return	que_idx	int	Question index			
(JSON)	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/me	ic/api/meic_tablet_get_function_file_upload_pat
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	string	['teacher'],['student'],['all'],['myself'],[sub
	(optional)		group id],[user id] or null(myself)
	from_user	string	['teacher'],['student'],['all'],['myself'],[sub
	(optional)		group id],[user id] or null(myself)
Return (JSON)	path	String	Upload file path

<sup>-</sup>submit a file and upload to server.

Action URL	Calls static file upload action path		
Return	error	string	Error message
(JSON)	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 user_name	int string	User ID User name
(00011)	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