Parameters for Server and Visualization

Author: Julio Guerra, Paws Lab

Version 1.0

There are many places where parameters are defined, controlling the visualization and system features at different levels. System level parameters are defined in config.xml of the aggregate server (see below). Visualization parameters can be specify in the URL loading MG or in the database for whole groups or for individual users.

Aggregate System Parameters

Aggregate services has its own parameters controlling some server features in aggregate/WebContent/WEB-INF/config.xml

MasteryGrids URL parameters

Use these parameters in the URL loading Mastery Grids to control the elements displayed.

parameter	data type / values	description
data-top-n-grp	int 1, 2, ...	
data-req-other-learners	0,1	When 1 it requests the models of the other learners in the group when the interface is loaded. By default is set to 0 to speed up the loading of MG.
def-val-rep-lvl-id	p,k	p = progress, k = knowledge
def-val-grp-idx	int 0, 1, 2, 3	The default group to load from the (sub) group list. 0 correspond to class average, 1 to top students, 2, 3 … to other subgroups defined (table ent_subgroups)
def-val-res-id	AVG, others according to resources defined	Default resource id to load in the grids. AVG make one row grids with the average across resources by topic.
ui-tbar-vis	0, 1	Hide, show the toolbar
ui-tbar-mode-vis	0, 1	Hide, show the mode selector (group/individual) in the toolbar
ui-tbar-rep-lvl-vis	0, 1	Hide, show the report level selector (progress/knowledge) in the toolbar
ui-tbar-topic-size-vis	0, 1	Hide, show the topic size selector in the toolbar (currently importance/difficulty indicators are not implemented in the service)
ui-tbar-grp-vis	0, 1	Hide, show (sub) group selector

ui-tbar-res-vis	0, 1	Hide, show resources selector (OVERALL, questions, examples, or any resource level defined for the course
ui-grid-all-head-me-vis	0, 1	Hide, show the header of the 'me' grid
ui-grid-all-head-me-grp-vis	0, 1	Hide, show the header of the 'me vs group' grid
ui-grid-all-head-grp-vis	0, 1	Hide, show the header of the 'group' grid
ui-grid-all-head-others-vis	0, 1	Hide, show the header of the 'others' grids
ui-grid-one-head-me-vis	0, 1	Hide, show the header of the 'me' grid in the one resource mode
ui-grid-one-head-others-vis	0, 1	Hide, show the header of the 'others' grids in the one resource mode
ui-grid-me-vis	0, 1	Hide, show 'me' grid
ui-grid-me-grp-vis	0, 1	Hide, show 'me vs group' grid
ui-grid-grp-vis	0, 1	Hide, show 'group' grid
ui-grid-others-vis	0, 1	Hide, show others grids or the button for loading others
ui-grid-timeline-vis	0, 1	Hide, show timeline
ui-grid-act-lst-mode	0, 1	Use the activity list for showing the activity list within a topic. Default is 1.
ui-show-help	0, 1	Hide, show help

Admin defined parameters (defined in the database)

The same set of parameters listed before (plus other server parameters) can be specified in aggregate database:

Visualization, recommendation and grouping parameters can be defined for individual users and groups in the table ent_parameters. Individual user parameters have priority over group parameters, and group parameters have priority over default parameters. Fields:

- *level* indicates the scope of the parameters and takes 2 possible values: 'user' or 'group'
- *params_vis* include comma separated parameters for the MG visualization. Most of these parameters **can also be passed in the URL that load MG** (defined in *launcher.html*, see previous section), although they have different names. Any of these parameters can be defined and will overwrite the parameters passed by URL to MG and the default values assumed by MG. The parameters are given in strictly json format. Literal values enclosed in double quotation. For example:

defValResId:"AVG",

parameter	data type / values	description
defVaRepLvlId	p,k	p = progress, k = knowledge
defValGrpIdx	int 0, 1, 2, 3	The default group to load from the (sub) group list. 0 correspond to class average, 1 to top students, 2, 3 … to other subgroups defined (table ent_subgroups)
defValResId	AVG, others according to resources defined ("qz", "ex")	Default resource id to load in the grids. AVG make one row grids with the average across resources by topic.
uiTBarVis	false, true	Hide, show the toolbar
uiTBarModeGrpChk	false, true	When true it checks the group option for comparison, regardless of the grids shown. When false, it checks the individual comparison mode and hide any group/peers grids. Use in combination with uiTbarModeVis and grid visualization flags: uiGridGrpVis, uiGridMeGrpVis, uiGridOthersVis
uiTBarModeVis	false, true	Hide, show the mode selector (group/individual) in the toolbar
uiTBarRepLvlVis	false, true	Hide, show the report level selector (progress/knowledge) in the toolbar
uiTBarTopicSizeVis	false, true	Hide, show the topic size selector in the toolbar (currently importance/difficulty indicators are not implemented in the service)
uiTBarGrpVis	false, true	Hide, show (sub) group selector
uiTBarResVis	false, true	Hide, show resources selector (OVERALL, questions, examples, or any resource level defined for the course

uiGridAllHeadMeVis	false, true	Hide, show the header of the 'me' grid
uiGridAllHeadMeGrpVis	false, true	Hide, show the header of the 'me vs group' grid
uiGridAllHeadGrpVis	false, true	Hide, show the header of the 'group' grid
uiGridAllHeadOthersVis	false, true	Hide, show the header of the 'others' grids
uiGridAllOneHeadMeVis	false, true	Hide, show the header of the 'me' grid in the one resource mode
uiGridAllOneHeadOthersVis	false, true	Hide, show the header of the 'others' grids in the one resource mode
uiGridMeVis	false, true	Hide, show 'me' grid
uiGridMeGrpVis	false, true	Hide, show 'me vs group' grid
uiGridGrpVis	false, true	Hide, show 'group' grid
uiGridOthersVis	false, true	Hide, show others grids or the button for loading others
uiGridTimelineVis	false, true	Hide, show timeline
uiGridActLstMode	false, true	Use the activity list for showing the activity list within a topic. Default is 1.
uiShowHelp	false, true	Hide, show help

● **params_svcs**: comma separated parameters in JSON format. Literals DOES NOT have to be in quotations. Example
```
dataTopNGroup:4,dataIncOtherLearners:false,reactiveRecOn:false,
reactiveRecMethod:CSSIM
```

parameter	data type / values	description
dataTopNGroup	int 1,2,3,...	
dataIncOtherLearners	true, false	
reactiveRecOn	true, false	
proactiveRecOn	true, false	

reactiveRecThreshold	float {0,1}	reactiveRecThreshold:0.7
proactiveRecThreshold	float {0,1}	
reactiveRecMethod	String {CSSIM,...}	reactiveRecMethod:CSSIM
proactiveRecMethod	String {CSSIM,...}	
reactiveRecMax	int 1,2,3,...	
proactiveRecMax	int 1,2,3,...	
lineRecOn	true, false	

-

parameter	data type / values	description
example	String {variables1_v2,...}	This parameter can be used when calling recommendation server. IF example=[rdfID of an example] exists in the list of parameters and lineRecOn=true, THEN Adaptive Navigation Support(ANS) must be generated only for the given specific example, otherwise, ANS should be generated for all examples. In the former case, the recommendation server will return a JSON representing the ANS data for the requested example. In the latter case, the recommendation server will store ANS data of examples in files located in the web directory of the recommendation application.