

EHIMS Data Analysis Module

Group Details

										Channel Stats	Survey Results	+	-
	No.	Time	Tester	Type	Tree	Status	Finished	Create	Results				
✕	1	9/30/2019, 10:00:09 AM	1	tree	false	Finished (60.26 min)	0	https://ehims-new.herokuapp.com/invite?i=5d920a61b09bea00040	Download				

There are 3 files available to download on the admin page. Click on the Survey Results button to download the survey.csv file; Channel Stats button to download the all-channels.csv file; Download button to download the channel.zip file.

```
-- survey.csv
-- all-channels.csv
-- channel.zip
  -- tmp_file
    ( if the number of messages is above 0 )
      -- channel-CHANNEL_ID.png
      -- messages.csv
      -- participants.csv
    ( else if there is no message or only root messages )
      -- channel-CHANNEL_ID.txt
```

1. survey.csv

	A	B	C	D	E	F	G
1	user id	channel id	pre survey (Q2)	pre survey (Q3.1)	pre survey (Q4)	pre survey (Q5)	pre survey (Q1)
2	5da72b2cefad280004798243	5d9f347b7db59d00045f8632	male	morning	hotdog		5 sadf

This file groups pre surveys and post surveys answers by user ids. The delimiter is Tab in case that survey answers may contain commas. The names of columns (except for user id and channel id) are unique identifications given by the name attributes of inputs as follows.

```
input.input-group-field(type="text", required, name="Q1")
```

2. all-channels.csv

This file summarizes attributes of every experiment channels.

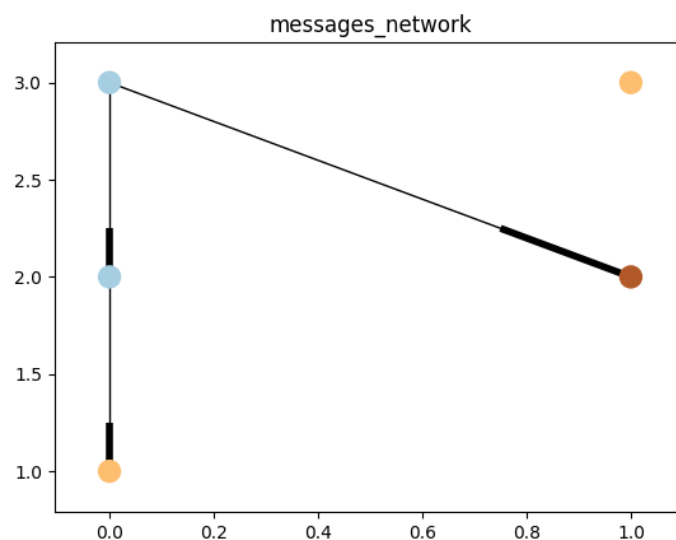
Column name	Descriptions
Name	Name of the channel
Type	Graph, tree or path (sequential)
Tree views	Whether to see tree views
Started at	The time that channel started
Duration	A period of time
participants	Number of participants
Messages	Number of messages
Edges	Number of edges
Root messages	Number of root messages
Merged messages	Number of messages with multi-parents
avg no of messages sent per participant	Number of messages / number of participants
avg children of all messages	Number of messages which have parent(s) / number of messages
avg parents of all messages	Number of messages which have child(ren) / number of messages
avg parents of merged messages	Number of parents of merged messages / number of merged messages
Depth	The longest path in a DAG
Width	Sum of the biggest number of nodes in a level of all trees in a graph
Density	<p>Number of edges / maximum number of edges</p> $D = \frac{ E }{ V (V - 1)}$ <p> E : number of edges V : number of nodes</p>

Avg likes	Average likes received by each message
Avg bookmarks	Average bookmarks received by each message
Avg versions	Average times of modifying messages

3. channel.zip

3.1 channel-CHANNEL_ID.png

This picture is drawn by Breadth-first Traversal (BFS). Different colors represent different authors and messages in the top level are root messages.



3.2 messages.csv

This file contains information of all messages in a channel.

Column name	Descriptions
original_version	Number of modified times
Likes	Number of likes
Bookmarked	Number of bookmarks
Author	Name of the author
Content	Contents of the message
Created_at	The time to create the message
Updated_at	The last time to modify this message

Content_length	Number of words in the message
Centrality	Centrality of this graph
In_centrality	Centrality that calculates with only in-degree
Out_centrality	Centrality that calculates with only out-degree
Closeness_centrality	Closeness centrality of this graph
Descendants	Number of descendants
Successors	Number of direct child(ren)
Predecessors	Number of direct parent(s)
reaching_centrality	Reaching centrality of this graph
subtree_width	The biggest number of nodes in a level of the subgraph with this node as the root
percent of descendants author AUTHOR_NAME	Percent of descendants created by the author
percent of successors author AUTHOR_NAME	Percent of successors created by the author

3.3 participants.csv

This file groups information of messages by authors in a channel.

Column name	Descriptions
Messages_no	Number of messages created by this user
Max_centrality	Max centrality of all messages created by the user
Avg_centrality	Avg centrality of all messages created by the user
Max_in_centrality	Max in-centrality of all messages created by the user
Avg_in_centrality	Avg in-centrality of all messages created by the user
Max_out_centrality	Max out-centrality of all messages created by the user
Avg_out_centrality	Avg out-centrality of all messages created by the user
Max_closeness_centrality	Max closeness centrality of all messages created by the user
Avg_closeness_centrality	Avg closeness centrality of all messages created by the user

Max_descendants	Max descendants of all messages created by the user
Avg_descendants	Avg descendants of all messages created by the user
Max_successors	Max successors of all messages created by the user
Avg_successors	Avg successors of all messages created by the user
Max_predecessors	Max predecessors of all messages created by the user
Avg_predecessors	Avg predecessors of all messages created by the user
Max_reaching_centrality	Max reaching centrality of all messages created by the user
Avg_reaching_centrality	Avg reaching centrality of all messages created by the user
Max_subtree_width	Max subtree width of all messages created by the user
Avg_subtree_width	Avg subtree width of all messages created by the user

3.4 channel-CHANNEL_ID.txt

Basic information of channels with no messages.

Channel basic information:

ID: 5d920a5cb09bea00040edac5

Name: Group-9/30/2019, 9:59:55 AM (Tree)

Type: tree

Tree Views: False

Start At: 9/30/2019, 10:00:09 AM

Duration: 60.26 min

Participants: tester-12588041 (1 participants)

Number of messages: 0

Avg number of messages sent per person: 0.0