

EHIMS Database Schema

There are 5 collections in database ehims: channels, invites, messages, surveys and users.

1 Channel

Field	Type	Attribute	Description
Id	ObjectId	Unique	Unique id for the document assigned by MongoDB
Name	String	Required, unique	Name of a channel, which is in the format of “Name given by creators Graph/Path/Tree)”
Top_lvl_messages	List of Message. ObjectId		List of root messages, which have no parents
Chat_type	String	enum: ['path', 'tree', 'graph'], default: 'tree'	Type of channels, 3 options only
Type	String	enum: ['experiment', 'routine', 'result', 'in progress'], default: 'routine'	Experiment: this channel is for experiment and has not started yet Result: this experiment finished In progress: this experiment is ongoing Routine: this channel is for normal users
Tree_views	Boolean	default: true	Whether to display tree views
Users_number	Number		Number of participants in an experiment channel set up by the administrator
Started_at	String		The start time for the experiment (timezone: GMT-4)
Duration	String		Duration of the experiment
Invite_link	Invite.ObjectId		Unique invitation id for this channel (the invitation link generated based on it)
Created_at	Timestamps		The time to create this document, generated automatically by MongoDB

Participants	List of documents		Information of participants
Participants._id	ObjectId		Unique id for the document assigned by MongoDB
Participants.name	String		Username of a participant
Participants.online	Boolean		Whether the participant is online
Color	Number		Background color of messages sent by this participant
Id	User.ObjectId		ObjectId of the participant
Postsurvey	Boolean	default: false	Whether the participant complete postsurvey or not

2 Invite

Field	Type	Attribute	Description
Id	ObjectId	Unique	Unique id for the document assigned by MongoDB
Channel	Channel.ObjectId		Unique id for the channel which this invitation link leads to
Experiment	Boolean	default: false	Whether this invitation link is for experiment channels
Created_at	Timestamps		The time to create this document, generated automatically by MongoDB

3 Message

Field	Type	Attribute	Description
Id	ObjectId	Unique	Unique id for the document assigned by MongoDB
Content	String		Content of this message
Original_version	List of String		The previous version of contents and changes in hierarchy

Author	String		Author of this message
Msg_parent	Message.ObjectId		Parent of this message. If it is a root message, this field is null
Other_parents	List of Message.ObjectId		Other parents of this message if it has more than one parent (only in Graph mode)
Children	List of Message.ObjectId		Children of this message
Urgency	Boolean	default:false	Whether this message is urgent
Likes	List of String		Username of users who like the message
Bookmarked	List of String		Username of users who bookmark the message
Created_at	Timestamps		The time to create this document, generated automatically by MongoDB
Updated_at	Timestamps		The last time to update this document, generated automatically by MongoDB

4 Survey

Field	Type	Attribute	Description
Id	ObjectId	Unique	Unique id for the document assigned by MongoDB
Channel	Channel.ObjectId		The ObjectId of the channel which this tester joins
User	User.ObjectId		ObjectId of the tester
Questionnaire	Boolean	default: false	“True” to store consent and instruction texts; “false” to store tester’s survey answers
Consent	String		Consent items for normal users
Instructions	String		Instructions displayed before experiment starts (only in the first version of experiment process)
Tester_consent	String		Consent items for testers

Pre_survey	List of documents		Answers of the tester's pre survey
Pre_survey._id	ObjectId	Unique	Unique id for the document assigned by MongoDB
Pre_survey.name	String		Description of this question
Pre_survey.answer	String		Answer of this question
Post_survey	List of documents		Answers of the tester's post survey
Post_survey._id	ObjectId	Unique	Unique id for the document assigned by MongoDB
Post_survey.name	String		Description of this question
Post_survey.answer	String		Answer of this question

5 User

Field	Type	Attribute	Description
Id	ObjectId	Unique	Unique id for the document assigned by MongoDB
Name	String	Required, unique	Unique username
Experiment	Boolean	default: false	Whether this account is for experiments
Password	String	Required	Encrypted password for this account
Firstname	String		First name of the user
Lastname	String		Last name of the user
Email	String		Email address of the user
resetPasswordToken	String		Unique and random token for resetting password
resetPasswordExpires	Date		Expired time for the reset password token

Channels	List of documents		Information of channels previously joined
Channels._id	ObjectId	Unique	Unique id for the document assigned by MongoDB
Channels.name	String		Name of the channel
Channels.chat_type	String		Chat type of the channel
Channels.id	Channel.ObjectId		ObjectId of the channel