Backend Unit Test

UT_n belongs to test file n in the test folder. For example, UT_1 is related to test file test1-connection.js

Unit Test ID	Module	Details	Expected result			
UT_1_1	General	Check MongoDB's connection.	Database connected.			
UT_1_2	General	Check it's the test database and NOT the production database.	The database name is the test database.			
USER - TESTING WITHOUT AUTHENTICATION						
UT_2_1	User	Prevent creating a user without a firstName field.	Return an unauthorized error.			
UT_2_2	User	Test if a new user is created successfully with all valid fields	Return a success status 200 and an authorized token.			
UT_2_3	User	Prevent creating a user with a registered username.	Return an unauthorized error message.			
UT_2_4	User	Prevent creating a user with a registered email.	Return an unauthorized error message.			
UT_2_5	User	Prevent logging in with an incorrect username or password.	Return an unauthorized error message.			
UT_2_6	User	Test if a user is logged in successfully with the <i>correct username</i> and <i>password</i> .	Return a success status 200 and an authorized token.			
UT_2_7	User	Prevent showing profile without logging in.	Return an unauthorized error message.			
UT_2_8	User	Prevent accessing to searching for other users without logging in.	Return an unauthorized error message.			
UT_2_9	User	Prevent accessing to update the account without logging in.	Return an unauthorized error message.			
UT_2_10	User	Prevent accessing to delete the account without logging in.	Return an unauthorized error message.			
	USER - TESTING WITH AUTHENTICATED TOKEN - AFTER LOGIN					
UT_2_11	User	Test if it shows the correct <i>profile</i> of the current logged in user.	 Return a success status 200 and profile information. 			
UT_2_12	User	Test to get all the users from the collection using the GET route.	 Return an array of 1 element, which is the currently registered user. 			
UT_2_13	User	Test if the user can update his <i>profile</i> .	All changed field is correctly updated.The user data is updated in the database.			
UT_2_14	User	The server successfully finds a user with a given id.	 Return a user if that id existed, and that user has all required fields/attributes. 			
UT_2_15	User	Test if the user can search for another one.	 Return an array of users that match the search query, and that the user has all required fields /attributes. 			
UT_2_16	User	Test if the user can delete his account.	The user data and his contacts/events /relationships are deleted from the database. Return a message "Data is deleted succes sfully!"			
CONTACT - TESTING WITHOUT AUTHENTICATION						
UT_3_1	Contact	Register for an account to be used.	Return an authorised token.			
UT_3_2	Contact	Prevent accessing to searching for other users without logging in.	Return an unauthorized error message.			
UT_3_3	Contact	Prevent accessing to get all current contacts without logging in.	Return an unauthorized error message.			
UT_3_4	Contact	Prevent accessing to search for contacts without logging in.	Return an unauthorized error message.			
		CONTACT - TESTING WITH AUTHENTICATED TOKEN - A	AFTER LOGIN			
UT_3_5	Contact	Prevent creating a contact without the firstName field.	Return a failed status with the message: "Missin g or invalid firstname!"			
UT_3_6	Contact	Test if a contact is created successfully with all valid fields.	Return a newly created contact and its information.			
UT_3_7	Contact	Test if a contact is created successfully with a userld.	 Return a newly created contact and its information that get imported from the provided userId. 			
UT_3_8	Contact	Test to get all <i>owned</i> contacts from the collection.	Return an array of owned contacts (2): one created manually and one added from a userId.			

UT_3_9	Contact	The server successfully finds an <i>owned</i> contact with a given id.	Return a contact if that id existed, and that	
		, ,	contact has all required fields/attributes.	
UT_3_10	Contact	Test if the user can update an owned contact.	 All changed field is correctly updated. The contact data is updated in the database. 	
UT_3_11	Contact	Test if the user can search for contacts.	 Return an array of contacts that match the search query, and that contact has all required fields/attributes. 	
UT_3_12	Contact	Test if the user can delete his owned contact.	Data of the contact is deleted from the database. Return a message "Data is deleted succes sfully!"	
		EVENT - TESTING WITHOUT AUTHENTICATION	ON .	
UT_4_1	Event	Register for an account and add two contacts to be used.	 Return an authorised token and two contacts are created successfully. 	
UT_4_2	Event	Prevent accessing to get all current events without logging in.	Return an unauthorized error message.	
UT_4_3	Event	Prevent accessing to search for events without logging in.	Return an unauthorized error message.	
		EVENT - TESTING WITH AUTHENTICATED TOKEN - AF	TER LOGIN	
UT_4_4	Event	Prevent creating an event without a <i>name</i> field.	Return a failed status with a message: "Missing event name or event name contains i nvalid characters!"	
UT_4_5	Event	Test if an event is created successfully with all valid fields.	Return a newly created event and its information.	
UT_4_6	Event	Test to get all owned events from the collection.	Return an array of owned events (1)	
UT_4_7	Event	The server successfully finds an owned event with a given id.	 Return an event if that id existed, and that event has all required fields/attributes. 	
UT_4_8	Event	Test if the user can update an owned event.	All changed field is correctly updated.The event data is updated in the database.	
UT_4_9	Event	Test if the user can search for events.	 Return an array of events that match the search query, and that event has all required fields /attributes. 	
UT_4_10	Event	Test if the user can delete his owned event.	Data of the event is deleted from the database. Return a message "Data is deleted succes sfully!"	
		RELATIONSHIP - TESTING WITHOUT AUTHENTIC	ATION	
UT_5_1	Relationship	Register for an account and add two contacts to be used.	 Return an authorised token and two contacts are created successfully. 	
UT_5_2	Relationship	Prevent accessing to get all current relationships without logging in.	Return an unauthorized error message.	
UT_5_3	Relationship	Prevent accessing to search for relationships without logging in.	Return an unauthorized error message.	
		RELATIONSHIP - TESTING WITH AUTHENTICATED TOKEN	- AFTER LOGIN	
UT_5_4	Relationship	Prevent creating a relationship without a <i>people</i> field or invalid contactld in the <i>people</i> field.	Return a failed status with a message: "Require people in a relationship!"	
UT_5_5	Relationship	Prevent creating a relationship with duplicated contactld in the <i>peop le</i> field.	Return a failed status with a message: "Invalid contact Ids or this relationship has existed!"	
UT_5_6	Relationship	Test if a relationship is created successfully with all valid fields.	 Return a newly created relationship and its information. 	
UT_5_7	Relationship	Prevent creating a relationship that has already been created.	Return a failed status with a message: "Invalid contact Ids or this relationship has existed!"	
UT_5_8	Relationship	Test to get all owned relationships from the collection.	Return an array of owned relationships (1)	
UT_5_9	Relationship	The server successfully finds an <i>owned</i> relationship with a given id.	 Return a relationship if that id existed, and that relationship has all required fields/attributes. 	
UT_5_10	Relationship	Test if the user can update an owned relationship.	 All changed field is correctly updated. The relationship data is updated in the database. 	
UT_5_11	Relationship	Test if the user can search for relationships.	 Return an array of relationships that match the search query, and that relationship has all required fields/attributes. 	

UT_5_12 Relat	tionship Test if the user can d	 Data of the relationship is deleted from the database. Return a message "Data is deleted succes sfully!"
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