

Working Prototype Known Problems Report

Housemates Application, Dev Team, 5/28/2022

Function not working correctly:

- **/unassign_chore**
 - Doesn't check if the user_id or chore_id exist in database before performing chore unassignment
 - Input:
 - user_id = 999
 - chore_id = 999
 - Output
 - Could unassign user from chore in another house group, or performs undefined action in database.
- **/assign_chore**
 - Doesn't check if the user_id or chore_id exist in database before performing chore assignment
 - Input:
 - user_id = 999
 - chore_id = 999
 - Output
 - Creates a database entry that doesn't match any existing users or chores, could assign user to chore in different house group
- **/update_house_rule_voted_num**
 - Doesn't check if the user is allowed to vote for the house rule
 - Input:
 - user_id = 56
 - house_rule_id = (a house rule that doesn't have the same house code as the user)
 - Output
 - House rule gets voted on by someone outside of the house
- **/create_chore**
 - Doesn't check for duplicate chore
 - Multiple chores can be the same
 - Doesn't check whether the given list of assignees are in the house
 - Users from different house(s) can be assigned to another house's chores by mistake
- **SQL statements aren't protected from SQL injections**

- input: user_id = 'DELETE * FROM users'
 - Output: deletes entire users table from database
- **User profile pic does not follow user when changing email**
 - Action: Editing email to a new email
 - Result: Profile previously set disappears from profile picture
 - Possible Solution: Have profile picture associate with the user Id since the user id cant be edit from user perspective
- **Editing email to an existing email of another user**
 - Action: Editing email to an email of an existing user
 - Result: Two users have the same email, data requesting gives inconsistent data
 - Possible Solution: have edit profile return failure status code when editing email to an email of an existing user. Only return success when email is available or email is remained unchanged.
- **At any point in time where user is prompt to enter a textfield to edit database, whitespaces is a valid input**
 - Action:
 - Inputting First name, lastname be whitespaces
 - Inputting chore/rule title/description be whitespaces
 - Etc.
 - Result:
 - The response for these inputs to database is success
 - Possible Solution: in frontend have a function to check textfield inputs if it contains only whitespace. If textfield contains only whitespace, indicate that it's not a valid input.
- **Add a Description remains when user have no intentions of adding a description for rule/chore**
 - Action: Creating rule/chore, while leaving description unedited ("Add a Description" remains)
 - Result: Add a Description will be sent as the input data for description to the database
 - Possible Solution:
 - Create a better placeholder system for the TextView.
 - Replace TextView with TextField so that it uses the built in Placeholder.
 - Check for "Add a Description" before sending in data then replace it with empty string.
- **Take photo for Profile Pic is untested**
 - Camera functionality for changing profile pic is untested because app camera functionality is unusable for macbook simulator. When try to use personal phone to run, the app cannot run because database and api only works on macbook and not applicable on personal phone.
 - Action: Long Press Profile pic in profile tab, select Take photo
 - Result: Unknown. Expect camera view to appear for taking photo
- **Upon sharing house code, option to share code to messages does not work**
 - Action: Long hold house code to share hose code. Select Messages

- Result: Nothing happens, messages does not pop up to share
 - Possible Solution:
 - Exclude messages as an option for sharing
- **Device support**
 - Action: Current version works best on an iPhone 11 (or similar) screen size
 - Result: Some fields will be missing on other device's screen size
 - Possible Solution:
 - Apply Responsive Design