Influx - Node.js assignment

Short summary of what you need to do

Create a module that will help a group of people to split shared expenses during a trip or vacation.

Deep Dive

1. Create a function to create a Trip Group (Only one Trip group will be created for the purpose of this exercise. So this function will only be called once). Use console.log() to show the json structure of the created group. The trip group name should be your name.

2. Create a function to Add a Member to the Trip group.
   a. This function can be called multiple times.
   b. Required validations may need to be done
   c. Use console.log to show the resultant Trip group which should include the newly added member.

3. Create a function to add expenses
   a. Expenses should always be added against a member
   b. Can be called multiple times with different or same expense amounts and for different or same members

4. Create a function to show the expenses split across the members
   a. Use console.log to the show the final output
   b. The output should clearly indicate **who** owes **what** amount to **whom**

5. Create a main function to do the following
   a. Calls the function to create a Trip Group once

b. Calls the function to add 3 members

c. Calls the function to add Rs.30/- as expense for each of the members

d. Calls the split function to show the final output

What will you be evaluated on

1. Can you name variables and functions properly and follow a standard practice

2. Use of data structures, classes

3. Judicious use of coding elements to ensure best performance

4. The functions should continue to work when called with different expense values

Let's make it interesting!!

Are you the "Best of the Best" (Optional, but goes to show that you are a hard core developer)
1. Create another function to do the following:

a. Call the function to create a Trip Group once

b. Call the function to add 10 members

c. Call the function to add expenses 300 times for random members in the group with random expense amounts

d. Calls the split function to show the final output along with time taken to execute the function

2. You don't get extra time for this

Note: no need to use databases. Json is sufficient.