Testing UI Functions For iRate Database

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Main – Test

All Main Option

```
Main Page
1. Print All Tables
2. Access as Customer
3. Access as IT
4. Exit with All program
Option:
```

Insert any value that is not part of the option, will show error message, program ends

```
Main Page
1. Print All Tables
2. Access as Customer
3. Access as IT
4. Exit with All program
Option: 10

!!!!!!INVALID INPUT!!!!! See Yah
```

insert 1 will Print All Tables

```
[ENDORSEMENT]
REVIEWID          CUSTOMERID        ENDORSEMENTDATE
22222             12350             2019-06-23
22222             12348             2019-06-23
22222             12347             2019-06-23
22222             12346             2019-06-23
22223             12350             2019-06-23
22223             12348             2019-06-23
22223             12347             2019-06-23
22230             12349             2019-06-24
22231             12350             2019-06-24
22231             12349             2019-06-24
22231             12348             2019-06-24
22231             12346             2019-06-24


[REVIEW]
MOVIEID           CUSTOMERID        RATING        REVIEWDATE        REVIEW        REVIEWID
44444             12345             4             2019-06-21        goood         22222
55555             12345             1             2019-06-21        terrible      22223
66666             12345             5             2019-06-21        execellent    22224
77777             12345             3             2019-06-21        average       22225
44444             12346             4             2019-06-21        love          22226
55555             12346             1             2019-06-21        sucks         22227
66666             12346             2             2019-06-21        :(            22228
88888             12346             5             2019-06-21        perfect       22229
99999             12345             4             2019-06-21        luv           22230
44444             12347             3             2019-06-21        soso          22231
```

Insert Movie Test

Insert 3 will give options of employee view of the database, will show:

```
Employee View:
1. Insert movie
2. Print movie table
3. Print the list of concession winners
4. Print the list of free ticket winners
5. Main Page
Option:
```

Insert 1 in Employee View, will show:

```
Inputting Movie

insert title of the movie:
```

Then insert a movie name, the movie table will show insert success, then return menu

```
Inputting Movie

insert title of the movie: Kobe
new movie is added.
Insert Movie Success

Employee View:
1. Insert movie
2. Print movie table
3. Print the list of concession winners
4. Print the list of free ticket winners
5. Main Page
Option:
```

Then insert 2 in option, will print the movie table with newest movie included

```
[MOVIE]
TITLE            MOVIEID
VeryGoodMovie    44444
Coding101        55555
CrackCoding      66666
LetsCode         77777
WeLuvCoding      88888
JustCode         99999
Spider-man       8905
Kobe             4535
```

Free Concession List Test

Then insert 3 in option, will ask for a date to choose who get gifts on that date

```
Employee View:
1. Insert movie
2. Print movie table
3. Print the list of concession winners
4. Print the list of free ticket winners
5. Main Page
Option: 3
|




Enter date:
```

Insert "200000", a bad date format, will show error message

```
Enter date: 20000000
|



wow....you are trolling us :(  bye!
```

Insert a date that no one has given reviews will provide an empty list

```
Enter date (yyyy-mm-dd): 2019-06-15

Free ticket list on 2019-06-15

Emails of who get Free Gifts on date: 2019-06-15
NAME                    EMAIL
```

Insert a date that customers have made valid reviews, will show their name, email

```
Enter date (yyyy-mm-dd): 2019-06-23

Free ticket list on 2019-06-23

Emails of who get Free Gifts on date: 2019-06-23
NAME                    EMAIL
Parker                  Parker@gmail.com
Luke                    LUKE@gmail.com
John                    John@gmail.com
MiaKang                 Mia@gmail.com
```

Free Ticket List Test

Insert 4 in employee, will ask a date of who free ticket winners

```
Employee View:
1. Insert movie
2. Print movie table
3. Print the list of concession winners
4. Print the list of free ticket winners
5. Main Page
Option: 4
```

Insert a valid date: 2019-07-01

```
Enter date (yyyy-mm-dd): 2019-07-01

Free ticket list on 2019-07-01
CUSTOMERID          MOVIEID
12345               44444


CUSTOMERID          MOVIEID
12345               55555


CUSTOMERID          MOVIEID
12345               99999
```

Inserting a date that has no winners, will show "none"

```
Enter date (yyyy-mm-dd): 2019-06-20

Free ticket list on 2019-06-20
None
```

Insert 5 in employee view, will go back to main menu

```
Employee View:
1. Insert movie
2. Print movie table
3. Print the list of concession winners
4. Print the list of free ticket winners
5. Main Page
Option: 5


Main Page
1. Print All Tables
2. Access as Customer
3. Access as IT
4. Exit with All program
Option:
```

Insert 2 in main menu, will to Customer view, then shows its menu

```
Main Page
1. Print All Tables
2. Access as Customer
3. Access as IT
4. Exit with All program
Option: 2
|
1. Print Customer Table
2. New Customer
3. Enter a movie you watched
4. Insert Review
5. Endorse a Review
6. Print AVG Movie Ratings
7. Main Page
Option:
```

Testing Register Customer

Insert 2, will ask for a name for the new customer then ask for email, if insert a bad email, an error message will show.

```
Registering a Customer

insert your name: Annie

Enter your email (with @): annie@




wow....you are trolling us :(  bye!
```

If insert valid values for both name and email, it will print success message and customer table

```
Registering a Customer

insert your name: Annie

Enter your email (with @): Annie@cloud.com
new customer is added.


Register Success


[CUSTOMER]
CUSTOMERID          NAME            EMAIL               JOINEDDATE
12345               Jason           Jason@gmail.com     2019-01-01
12346               Parker          Parker@gmail.com    2020-01-07
12347               Luke            LUKE@gmail.com       2018-10-05
12348               John            John@gmail.com      2011-01-01
12349               MaoMao          Mao@gmail.com       2012-01-02
12350               MiaKang         Mia@gmail.com       2017-04-04
2244                Annie           Annie@cloud.com     2019-07-09
```

Test Attendance

Insert 3 in main menu, will print movie table, then ask to insert a movieid

```
[MOVIE]
TITLE               MOVIEID
VeryGoodMovie       44444
Coding101           55555
CrackCoding         66666
LetsCode            77777
WeLuvCoding         88888
JustCode            99999
Spider-man          8905
Kobe                4535




Pick a movie you watched (enter movieid):
```

If inserting an inaccurate movieid or customerid, it will print error message saying review cannot be inserted. (movie id = 12344566 is not available)

```
Pick a movie you watched (enter movieid):        12344566

enter your id (all int):          55555

when did you watched it? format(YYYY-MM-DD)      2019-06-22
Sorry, we cannot confirm you watched this movie.
```

If inserting all accurate info, then it will print insert success and the attendance table

```
Pick a movie you watched (enter movieid):        4535

enter your id (all int):          12345

when did you watched it? format(YYYY-MM-DD)      2019-06-25
You watched a movie! Was it good? Give it a review


Attendendance Success


[ATTENDANCE]
MOVIEID              CUSTOMERID           ATTENDANCEDATE
4535                 12345                2019-06-25
8905                 12345                2019-06-28
44444                12345                2019-06-22
44444                12346                2019-06-20
44444                12347                2019-06-20
44444                12348                2019-06-19
44444                12348                2019-06-21
```

Test Insert Review

Insert 4 in customer view, to write a review.
If inserting a review that you have not watched, it will show error message

```
Inserting a review:

insert a movie id that you watched recently: 4535

insert your cid (all int): 12350

what is your rating for this movie (1-5 only)?                    4

what is your comment on this review?              okay
Sorry, you cannot review, please register and watch the movie first.


ha ha....oh...oh sorry, you cannot add a review for the movie.
```

If inserting a review (today), that attendance (2019-06-28) after 7 days, it will print error message

```
Inserting a review:

insert a movie id that you watched recently: 8905

insert your cid (all int): 12345

what is your rating for this movie (1-5 only)?                4

what is your comment on this review?            very good
Sorry, you cannot make a review because you watched this movie after 7 days.
```

If all input is meets condition, a success message will print, and the review table will be printed

```
Inserting a review:

insert a movie id that you watched recently: 4535

insert your cid (all int): 12349

what is your rating for this movie (1-5 only)?                  4

what is your comment on this review?            very good
Thank you for reviewing the movie.
[REVIEW]
MOVIEID          CUSTOMERID        RATING        REVIEWDATE        REVIEW          REVIEWID
44444            12345             4             2019-06-21        goood           22222
55555            12345             1             2019-06-21        terrible        22223
66666            12345             5             2019-06-21        execellent      22224
77777            12345             3             2019-06-21        average         22225
44444            12346             4             2019-06-21        love            22226
55555            12346             1             2019-06-21        sucks           22227
66666            12346             2             2019-06-21        :(              22228
88888            12346             5             2019-06-21        perfect         22229
99999            12345             4             2019-06-21        luv             22230
44444            12347             3             2019-06-21        soso            22231
4535             12349             4             2019-07-09        very good       1141
```

Test Endorsement

Insert 4 in customer view menu, to endorse a review
If endorsing yourself, it will print error message

```
Endorse a review!

Enter a review id:       1141

What is your customer id:       12349
Sorry, you cannot endorse yourself.
well... sorry you cannot to endorse for the movie.
```

If trying to endorse another a review of the same movie, it will print message

```
Endorse a review!

Enter a review id:       4305

What is your customer id:       12345
Sorry, you cannot endorse reviews on the same movie within 24 hours.
well... sorry you cannot to endorse for the movie.
```

If insert all correct values, it will print success message

```
Endorse a review!

Enter a review id:        1141

What is your customer id:        12345
Thank you for endorsing the review.


Endorse Success
```

Sample Code of test each table with error Input

```
TESTING IF ALL TABLES CAN DETECT ERROR INPUTS

Test Function: checkValidEmail in Customer Table:
Inserting { Delaney, Delaney@, 2019-07-01 } into table customer
Delaney@ is an Invalid Email Format
One insertion fail in Customer


Test Function: checkReviewTableDates in Review Table:
Test if Watched a movie within 7 days
Inserting { 66666, 12349, 5, 2019-07-01, Testing} into table review
Sorry, you cannot make a review because you watched this movie after 7 days.
One insertion fail in Customer

Test if watched a movie already
Inserting { 99999, 12346, 5, 2019-07-01, Testing} into table review
Sorry, you cannot review, please register and watch the movie first.
One insertion fail in Customer

Test if already made an review
Inserting { 44444, 12345, 5, 2019-06-21, Testing} into table review
Sorry, you can only review once for the same movie.
One insertion fail in Customer

Test Function: checkEndorsementTable in Endorsement Table
Test if endorsing yourself
Inserting { 22231, 12347, 2019-06-22} into table review
Sorry, you cannot endorse yourself.
One insertion fail in Endorsement

Test if endorsement date within 3 days of review
Inserting { 22231, 12345, 2019-06-25} into table review
Sorry, you cannot endorse a review 3 days after that review was made.
One insertion fail in Endorsement

Test if making endorsment of a review of a movie is a day apart
Inserting { 22227, 12348, 2019-06-23} into table review
Sorry, you cannot endorse reviews on the same movie within 24 hours.
One insertion fail in Endorsement
```