

Design Inspection

Team 9

Aishwarya Ajay, Nikhil Mehta, David Olaves-Mullican,
Brian Shrawder, Vijay S Balasubramanian, Simon Smith

Product: TripEase

Date: 25th September 2015

Author: TripEase Team

Moderator: Aishwarya Ajay

Inspectors: David Olaves-Mullican, Nikhil Mehta, Brian Shrawder

Recorders: Vijay S Balasubramanian, Simon Smith

Defect Number	Description	Severity	How to Correct
1	User sign-up Module does not check to see if username is already taken	1	User sign-up Module now has an UserValid function to check if the username is still available
2	User sign-up Module does not check to see if Email is already taken	2	User sign-up Module now has a EmailValid function to check if the Email is valid
3	User matchpreference module does not check if users would like to spend more on a hotel or for food with budget.	2	User choices module is able to put a min and max on hotels and restaurant prices
4	User matchPreferences Module does not check if all the hotel preferences are met (i.e smoking/non-smoking, single/double beds)	3	User matchPreferences Module now has hotelPref function that will return the number of hotels that match the user's preferences. If none, it will provide the hotels where most preferences are met.
5	User matchPreferences Module does not check if restaurant preferences are met (i.e allergies and type of food).	3	Restaurants will have a general food type and allergies accommodations (chinese/mexican) and a match for their food preferences will be checked.
6	User matchPreferences Module does not check if activity preferences are met (i.e time to travel for activity, if they are okay with getting wet, age and height	2	User matchPreferences Module now has activityPref function that will return the number of activities that match the user's preferences. If none, it will provide activities that

	restrictions.willing to travel as a group/solo		best represent their preferences.
7	User searchTrip Module does not save previous searches(i.e. location and food)	3	User SearchTrip Module now will have a small history to cut down on researches
8	User is not able to view/update his account details once he has created it	2	User Profile Module now has updateAccount function that will let the user change his/her account details (i.e age, email, picture) as well as giving them an option to change their passwords.
9	There is no indication if the product is still working when filtering/searching is taking place	2	Have a pop-up that gets displayed stating "Loading Results" if a particular function takes more than a few seconds to evaluate.
10	User client module does not check if the server is running	1	Client module would tell user it is unable to connect to the server
11	When the search results in more than 10 matches, we do not want all the matches to be shown	3	Have a scoring system that would rank the results according to the preferences met and then display the top 10 results.

Code Inspection

Defect Number	Description	Severity	How to Correct
1	SQL query formatted incorrectly this can cause no results to return and the user to not use product	1	Unit test every query to ensure it is formatted correctly for MySQL
2	Long wait time / inefficient algorithm for matching	2	Use SQL queries to filter out unwanted results for users preferences
3	Codes in matchPreferences module does not return anything unless there is a	2	Change the way the code is being implemented to return something after the functions

	perfect match		are executed. If there is no perfect match, it should return the list of hotels /restaurants /activities that satisfy the most number of preferences or return NULL.
4	After entering invalid login or signup information user is unable to retry	1	Allow the option for trying up to a number of times for login or any number for account creation
5	Code for handling button presses or enter commands not all handled. If not handled correctly can cause user choices to not be entered		Ensure all commands for entering information are handled correctly
6	Passwords don't get encrypted correctly so users can't login		Test encryption and make sure we are getting correct results back when decrypting
7			

Unit Testing

Database Wrapper Unit Tests

9/25/15

Brian Shrawder, Simon Smith

Defect No.	Description	Severity	How Corrected
1	Does not 'clean' input, sql injection maybe possible	1	Escaping SQL meta-characters thus 'cleans' the input.
2	Stored string data was being truncated if over char limit. Some data loss.	3	Added checking for input length.
3	Length of zero password string allowed.	3	Further validated minimum input length
4	NULL values not properly handled	3	NULL Checks on passed parameters

Registration / User Details

9/25/15

Nikhil Mehta, Vijay S Balasubramanian

Defect No.	Description	Severity	How Corrected
1	Registration does not check format of email.	2	Client side check added along with server side checking
2	If a passed parameter is missing, like any user details.. crash upon submission.	1	Added server-side error catching
3	User email uniqueness not checked, would cause problems with account verification	2	Enforce email uniqueness in database, check for duplicates on server