

## Design Inspection Defects

Product	Database Design Inspection		
Date	06/Feb/2014		
Author	Qing Wei		
Moderator	Sagar Pujara		
Inspectors	Qing Wei, Yinchun Yang		
Recorder	Kishen Sivalingam		
Defect #	Description	Severity	How Corrected
1	There is no attribute in the "userinfo" to distinguish whether a user is a normal user or event organizer.	1	Add a "confirmed" attribute in the userinfo table column.
2	There is no relationship between food type table and event table. Since each event should have at least one food type corresponding to.	1	Add an "event_to_food" table to indicate this 1 to * relationship.
3	The user email key in the userinfo table is not a unique key type that will produce duplicated emails.	2	Change the key type to unique type.
4	There is no created time attribute for event table that we cannot know when is the event created.	2	Add a "created_time" attribute in the event table column.
5	The location attribute is currently inside the event table, we should separate location to a different table to add some more attributes of location (address, zip code, etc.)	3	Add a "location" table and change the location attribute inside event table to a int value that inner join the location table.

Product	System Design Inspection
Date	06/Feb/2014
Author	Kishen Sivalingam
Moderator	Sagar Pujara

Inspectors	Qing Wei, Yincheng Yang		
Recorder	Yincheng Yang		
Defect #	Description	Severity	How Corrected
1	In User module, user's history comment is displayed in a very long list	3	Separate the comments into pages and display only 10 comments per page
2	In "EventList" module, only names of events are shown. Some events with same name may confuse users.	1	Show founder, time and location information which will help user distinguish different events.
3	No module created to control the food type	2	Create FoodType module to keep track of food types
4	User module does not contain a component to verify if a user is not logged in or not.	1	Added session and cookie component to verify login.
5	In Event module, similar defects as Defect 1.	3	Separate the comments into pages and display 20 comments.
6	In EventList module does not contain a component to retrieve latest events only listing all events.	2	List only upcoming events. History of events can be found after clicking "history button"
7	DeleteComment Module does not contain a component to check if a user created this comment.	1	Added component to check if the comment id match the user id in database.

## Code Inspection Defect log

<b>Product</b>	Create Event Code Inspection		
<b>Date</b>	06/Feb/2014		
<b>Author</b>	Qing Wei		
<b>Moderator</b>	Sagar Pujara		
<b>Inspectors</b>	Kishen, Sagar Pujara		
<b>Recorder</b>	Yinchen		
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How Corrected</b>
1	The Create event button didn't produce any actions.	1	Added onClick() method to the button and linked it to method createEvent()  Code: <pre>&lt;input type="button" value="Create an event " onclick="createEvent()" &gt;&lt;/input&gt;</pre>
2	The pop-up frame was resizable manually which alters the alignment of the elements in it.	2	Set the property of the pop-up frame to not sizable.
3	Once user click on create event button, a pop up frame appears but there was no any cancel button for user to cancel the pop up frame if user decides not to create an event	1	Added a close button to the pop-up frame.  Code: <pre>buttons : {   Cancel : function() {     \$(this).dialog('close');   } }</pre>
4	Google map throws this exception everytime it loads Error inflating class fragment	2	Import the newest library version 4
5	All the events are listed in the order of creating time.	2	Using event scheduled time instead of creating time to sort the events.

6.	When user's enter manually the location for an event, google map api throws an location not found exception when the submit button was pressed. Information that was entered also got lost.	3	Used place autocomplete that was available in google maps javascript Api v3. This suggests the user location that they entered.  Code: var autocomplete = new google.maps.places.Autocomplete (input);

<b>Product</b>	Google Map Code inspection		
<b>Date</b>	06/Feb/2014		
<b>Author</b>	Kishen		
<b>Moderator</b>	Sagar Pujara		
<b>Inspectors</b>	Qing Wei, Yincheng Yang		
<b>Recorder</b>	Sagar Pujara		
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How Corrected</b>
1	Map shows the whole world map. User location was not visible.	1	Set the zoom for google map to 15.
2	Map was not moveable. User was not look around the map.	1	Set the draggable option to true.  Code: Var marker = new google.maps.Marker({ map: map, draggable:true, animation: google.maps.Animation.DROP, position:geolocate });
3	Google map didn't show up when the application has loaded.	2	Run createGoogleMap() method when the body of the application is loading. This is done using the onload method that is

			available in html.
4	Google map couldn't locate user's current location.	3	Used html5 feature called geolocate to get user's latitude and longitude.  Code: var geolocate = new google.maps.LatLng(position.coords.latitude,position.coords.longitude);

<b>Product</b>	Like and comment Code Inspection		
<b>Date</b>	06/Feb/2014		
<b>Author</b>	Qing Wei		
<b>Moderator</b>	Kishen		
<b>Inspectors</b>	Qing Wei, Yincheng Yang		
<b>Recorder</b>	Sagar Pujara		
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How Corrected</b>
1	The number of likes remains zero despite many likes have been given	1	The variable countLike was made global.

<b>Product</b>	Database Code Inspection		
<b>Date</b>	06/Feb/2014		
<b>Author</b>	Qing Wei		
<b>Moderator</b>	Sagar Pujara		
<b>Inspectors</b>	Kishen, Yincheng Yang		
<b>Recorder</b>	Qing Wei		
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How Corrected</b>
1	Mysql throws programming error, trying to access a table that have not be created	1	Create a table in the database.
2	Mysql throws operational error, try to assign the address to varchar(10).	2	Increase the size of varchar to varchar(100)

3	Mysql could not store the data into the database because passed table name instead of database name	3	Change table name to database name.  Code. mysql_select_db('database name');
4	The event controller module can be SQL injected when there is a variable passed in to the SQL.	3	Build parameterized queries to avoid SQL injection.

<b>Product</b>	User Code Inspection		
<b>Date</b>	06/Feb/2014		
<b>Author</b>	Qing Wei		
<b>Moderator</b>	Sagar Pujara		
<b>Inspectors</b>	Kishen, Yincheng Yang		
<b>Recorder</b>	Qing Wei		
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How Corrected</b>
1	The user module will allow user to bypass to the user's home page by input certain url.	3	Added PHP session check or cookie check to ensure

## Unit Testing Defects

<b>Product</b>	Database Unit Inspection		
<b>Date</b>	06/Feb/2014		
<b>Author</b>	Qing Wei		
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How Corrected</b>
1	Return all the user information with a SQL injection "or 1" when do a post request with database query.	1	Build parameterized queries to avoid SQL injection.
2	Add an event with address length exceeding 10 chars. Mysql throws operational error.	2	Change the size of address to varchar(100)
3	When querying a not created table, mysql throws programming error	1	Added handler to kill the query and echo error message

<b>Product</b>	User Unit Inspection		
<b>Date</b>	06/Feb/2014		
<b>Author</b>	Kishen		
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How Corrected</b>
1	When knowing some user's homepage url, we can type the url directly in the browser and bypass the privacy access.	1	Added code into the user view controller to check if the user is logged first.
2	User can push lots of garbage HTML requests to the server.	2	Create a table and check the user ip address to prevent multiple requests at the same time.
3	The user's profile is not updated after the first time he logged in	3	Added update query at facebook login module. to update user info.
4	User cannot delete a comment he submitted.	2	In the view of history comment, provide a small cross sign next to every

			comment allowing the user to delete a particular comment.
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<b>Product</b>	Event Unit Inspection		
<b>Date</b>	06/Feb/2014		
<b>Author</b>	Yinchen Yang		
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How Corrected</b>
1	Click on the create event button and it does not produce any actions	1	Added javascript onClick() function and call the createEvent method to create the event.
2	User cannot cancel the form of creating event after clicking create event button.	1	Added close button and added javascript code <code>\$(.event).remove()</code> after clicking close button
3	When click on events for details. The pop-up frame was resizable that the alignment of elements alters	3	Code of the frame property changed.
4	When event list is too long, user may not scroll down to the bottom.	2	Added pagination code in the event module
5	User can submit a form with one or more fields empty and the form got submitted and stored in the database	2	Added both frontend and backend code to check if there is an empty field and prevent the action.

<b>Product</b>	Comment Unit Inspection		
<b>Date</b>	06/Feb/2014		
<b>Author</b>	Yinchen Yang		
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How Corrected</b>
1	Empty comment was submitted successfully.	1	Detect input content, notify user about empty comment



			and prevent from submitting. Only having characters like '\n','\t' is also treated as empty comment.
2	A very long comment(1000000 characters was used to test) sometimes crash the whole web page.	2	Limited the size of comment to 10000 characters, which is reasonable.
3	When comment a event, the comment number on the event is not updated immediately	3	Added a ajax call to the server to check the number and overwrite the number of comments

<b>Product</b>	EventList Unit Inspection		
<b>Date</b>	06/Feb/2014		
<b>Author</b>	Sagar Pujara		
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How Corrected</b>
1	In the view of EventList, anyone could delete any event.	1	After user clicking the delete button, check whether this event is created by current user. If not, notify user and prevent further operation.
2	When deleting an event, the event is deleted immediately.	3	Before deleting the event, create a pop-up to request user's confirmation to delete the event, which could avoid wrong operation.