High-level Functional Requirements

1. User login/register
   * User is able to create a username/password. The user will have to provide the following: Username, password, their name, and e-mail address.
   * Constraint: The username and e-mail must not already exist in our database. The password has to be at least 6 characters, and can only contact numbers & letters.
2. User can submit new items.
   * Users are able to submit new items that currently do not exist. This way the content of the site will be community based.
   * Constraint: The submission isn’t automatic, and must go through an approval process.
3. Read comments and information on items.
   * Users can read the comments that other users have left on each item, as well as the default description, location, and other information about the item.
4. Comment/Rate on existing items, and comments.
   * Users can leave their own comments, and rate items. They can also comment on other user’s comments.
   * Constraint: You can reply to an original comment, but not to a reply.
5. Submit pictures, and videos for items.
   * Users can submit different media on an item. Like pictures and videos of the item.
   * Constraint: Media has to go through an approval process.
6. Search items.
   * Users can search for items based on its name, or keywords.
   * Constraint: The spelling has to be correct, and match existing keywords that were made for the items.
7. Delete comment made by user.
   * Users have the ability to delete their comments by just clicking a delete button on their comment that only they’d see.
   * Constraint: Can only delete their comment.
8. Recommendations
   * Based on keywords of the current item the user is looking at, we can create recommendations.
   * Constraint: Recommendations will be based only on tags/keywords that are stored in the database.
9. Filter/sort based on ratings
   * Allow users to filter search results based on ratings and/or sort them by ratings.
10. Notify user if someone leaves a comment under their comment via e-mail.
    * When a user replies to another user’s comment, it will notify the user of the reply.
11. Shows approximate costs of attractions
    * If the item has a cost to it, we will show a range or approximation of the last known price.
    * Constraint: Prices will not be live, and will require manually updating.

Non-functional Requirements

1. Hash/Salt user passwords
2. Use sessions to remember users
3. Search takes less than 5 seconds
4. Implementation: Top-down design
5. Site works on Google Chrome, and Safari
6. No training time needed

System Development Infrastructure

* PHP
* CSS
* Bootstrap
* GitHub
* Someone.io
* JavaScript
* MySQL
* Google Maps API
* Notepad++
* WinSCP