SW Engineering CSC648/848 Section 01 Summer 2017

Jizhou Yang- Team Lead- jyang15@mail.sfsu.edu

Rafsan Saadi- CTO

Raghav Parti

Takahiro Odaka

Brandon Yu

Zach Melamed

Team # 3
Stock Photo Marketplace
Milestone 4 v2.0
8/5/2017

Document Revisions

Submission Date	Feedback given	Feedback Implemented
8/4/2017	8/5/2017	8/5/2017

1) Product Summary

Name of Product: Stock Photo Marketplace

The features of Stock Photo Marketplace is listed in the following table.

Feature	Description
Browse	Any user can browse our website and see the photos
Search	Any user can use the search bar and category filter to search for specific photos
Register	Any user can register an account on the website
Login	Registered users can login into their account
Manage	Registered users can see, edit, upload and delete the photos under his account.
Message	Registered users can send and receive messages from other registered users.

Unique of our product: Message system. Registered users can send and receive message from owner to setup a deal.

The Stock Photo Marketplace can be found by following the link below:

http://sfsuse.com/~su17g03/Home

2) **Usability Test Plan:**
The intended user for this website is anyone who is looking to upload their own media, purchase or view others' media for recreational or professional use. Since we want to have an ease of use for the website that requires little previous knowledge on how to purchase, view, or upload items online, we have no intended age group, and recommend to get testers from a variety of ages in order to maximize our feedback.

System setup: a laptop with internet capabilities and either Google Chrome or Mozilla Firefox internet browsers.

Starting point: Website home page

URL of tested system: http://sfsuse.com/~su17g03/Home

Task Description:
Below are the following three important tasks in order to successfully test out the search function.

Task	Description
Task	Choose "Background" category
Machine State	Default category selected
Successful Completion Criteria	"Background" displayed on "Category" tab
Benchmark	Completed in 30 seconds

Task	Description
Task	Find images of cities
Machine State	Empty search bar
Successful Completion Criteria	"city" typed out in search bar
Benchmark	Completed in 30 seconds

Task	Description
Task	Search for "city" in "Background" category
Machine State	Category selected, search query typed in
Successful Completion Criteria	Page displaying all images with "city" in the name
Benchmark	Completed in 30 seconds

Completion criteria:
- User has successfully done the following:
  - Found all images in "Background" category
  - Found all images related to "cities"
  - Has gotten a search result based off of the previous choices

User Satisfaction Questionnaire:
- The GUI was simple to understand (select one):
  __Strongly Disagree

  __Disagree

  __Neither agree nor disagree

  __Agree

  __Strongly Agree

- Comments:
  _____

- It was easy to search for media (select one):
  __Strongly Disagree

  __Disagree

  __Neither agree nor disagree

  __Agree

  __Strongly Agree

- Comments:
  _____

- The results displayed were appropriate to the search query (select one):
  __Strongly Disagree

  __Disagree

  __Neither agree nor disagree

  __Agree

  __Strongly Agree

- Comments:
  _____

3) Quality Assurance Test Plan

User Type	Test Setup and Description	Test Input	Expected Result	Test Status
Non-registered User	**Setup:** Open the following link in the browser: http://sfsuse.com/~su17g03/Home **Description:** Users shall be able to search for photos by using a keyword or category.	**Category**: View **Search Box:** beach **Click Button:** Search	"Search result returned with one photo of a beach"	Pass
	Setup: Open the following link in the browser: http://sfsuse.com/~su17g03/Home **Description:** Users shall be able to browse photos.	**Category**: "empty" **Search Box:** " empty" **Click Button:** Search	"Search result will return with 30 images from the system"	Pass
	Setup: Open the following link in the browser: http://sfsuse.com/~su17g03/users/add **Description:** Users of the website shall be eligible to become Registered Users of the website.	**Form Fields:** Email Password Confirm Password **Click Button:** Submit	Successfully bring up registration page and register as a user.	Pass
Registered User (Buyer)	**Setup:** Open the following link in the browser: http://sfsuse.com/~su17g03/users/login **Description:** Users shall be able to contact the seller.	**Login:** with email and password **Click Button:** Contact Seller (of the interested product)	"Successfully bring up message composition page and be allowed to contact the seller"	Pass
	Setup: Open the following link in the browser: http://sfsuse.com/~su17g03/users/login **Description:** Users shall be able to purchase photo	**Login:** with email and password **Click Button:** Download (of the interested product)	Successfully bring up download page with downloadable link	Pass

Registered User (Seller)	***Setup:*** Open the following link in the browser: http://sfsuse.com/~su17g03/users/login Login with username and Password Navigate to "MyProfile" or directly access the following link: http://sfsuse.com/~su17g03/profile ***Description:*** Contributors shall be able to upload photos to the website.	***Click Button:*** "Manage Media" ***Click Button:*** "Upload Media" ***Form***: Fill it up ***Click Button:*** "Save Media"	Successfully save media and that can be seen in the "Media Library" list	Pass
	Setup: Open the following link in the browser: http://sfsuse.com/~su17g03/users/login Login with username and Password Navigate to "Manage my media from ""MyProfile" or directly access through following link: http://sfsuse.com/~su17g03/Uploads ***Description:*** Contributors shall be able to manage (view, edit, delete) their uploaded photos to the website.	***Click Button:*** "Upload Media" ***Form***: Fill it up ***Click Button:*** "Save Media" ***To view detail:*** *Click on the media "Title"* ***To edit/delete media:*** *Click on the appropriate action link(Edit/Delete) from the "Media Library" list*	Click on "Title" successfully show the media details. Click on the "Edit" action allow user to edit/update the media info Click on the "Delete" action allow user to delete media	Pass
	Setup: Login with username and Password Navigate to "Message list" from "MyProfile" or directly access through following link: http://sfsuse.com/~su17g03/Communications/msgList ***Description:*** Contributors shall be able to see/ read messages from his media buyers.	***Click Link:*** "View Message"	Direct link shows all messages Click on "View Message" action shows details of a message	Pass

4) Code Review

Raghav Parti <raghav.parti@gmail.com>   5:13 PM (32 minutes ago)
to yangjizhou2011

Hey Jizhou attached below is our search id results table display. Please review the code and reply back with any comments. I have attached the entire file, which includes our old versions and iterations which we have changed since. But specificially in the body of this email is the current functional code:

```
//displays each category as a different colored table
        foreach($res as $arr){
                    Echo "<div class='col-sm-4'>";

                    if ($arr["media_category"] ==1) {
                        Echo "<div class='panel panel-info'>";
                    }

                    if ($arr["media_category"] ==2) {
                        Echo "<div class='panel panel-danger'>";
                    }

                    if ($arr["media_category"] ==3) {
                        Echo "<div class='panel panel-success'>";
                    }

                    if ($arr["media_category"] ==4) {
                        Echo "<div class='panel panel-primary'>";
                    }

                    if ($arr["media_category"] ==5) {
                        Echo "<div class='panel panel-default'>";
                    }

// construct the full path to the image, use substr function to remove the 'webroot\'
                    $full_path = substr($arr["media_dir"],7) . $arr["media_data"];

                    Echo "<div class='panel-heading'>&nbsp</div>";
//                  echo $arr["thumbnail"];
                    echo '<p id="image-display">';
                    echo $this->Html->image($full_path, array('class' =>'img-responsive', 'alt' => 'cover_picture', 'style'=>'width:100%;height:220px'));
                    echo '</p>';
                    echo '<div class="watermark">';
                    echo '<p>Stock Photo Marketplace';
                    echo 'Copyright 2017</p></div>';
                    echo '<div class="panel-footer">Media Category: ';
                    echo $arr["media_category"];
                    echo '</div>';
                    echo '<div class="panel-footer">Media Title: ';
                    echo $arr["title"];
                    echo '</div>';
                    echo '<div class="panel-footer">Media description: ';
                    echo $arr["description"];
                    echo '</div>';
                    echo '<div class="panel-footer">Media Price: ';
                    echo $arr["price"];
                    echo '</div>';
                    echo '<h1 class="text-center"><a href="#contactSeller" role="button" class="btn btn-primary btn-lg" data-toggle="modal">Contact Seller</a></h1>';
                    echo "</div>";
                    echo "</div>";

        }
```
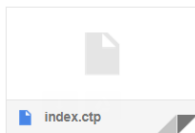
📄 index.ctp

Jizhou Yang   5:42 PM (4 minutes ago)
to me

Hi Raghav,

Thanks for your email. Here are my comments on this code.

1. Style. The code has consistent style. Indentation and brackets make easy to read. Provides comments to tell what the code is doing.
2. Design pattern. The code has good naming. The name of variables corresponds to what it holds.
3. Framework. The code follows the MVC model. It is the view file for "SearchID" controller. The syntax is correct. There is no syntax error.
4. Exception Handler. The code shows how many records are retrieved from input search condition. But more code is needed to show some relative records to the user.

Hope you find it helpful.

5) Self check on best practices for security
- Major assets we are protecting:
    - Images uploaded by contributors
        - As this is a stock photo marketplace, the raw image itself is the important asset and thus should be and is protected from being accessed and downloaded by a guest
    - User information
        - In order to message a contributor, a person must first register as a user. This registration requires email and password. Both are important assets to be protected
- Password protection
    - Login and register passwords are encrypted passwords that can't be seen or accessed by anyone whether they be guest, registered user, contributor, or administrator
- Input form validation
    - Search bar input validation- max 30 characters
    - Search bar input validation- no special characters (alphanumeric only)
    - Search bar input validation- no empty searches
    - Search result output validation- provided valid search, provide some result
    - Empty search bar will display all results
    - SQL Form injection prevention

6) Adherence to original non-functional specs
1. Application shall be developed using class provided LAMP stack- DONE
2. Application shall be developed using pre-approved set of SW development and collaborative tools provided in the class. Any other tools or frameworks must be explicitly approved by Anthony Souza on a case by case basis.- DONE
3. Application shall be hosted and deployed on Amazon Web Services as specified in the class- DONE
4. Application shall be optimized for standard desktop/laptop browsers, and must render correctly on the two latest versions of all major browsers: Mozilla, Safari, Chrome. -DONE
5. Application shall have responsive UI code so it can be adequately rendered on mobile devices but no mobile native app is to be developed -DONE
6. Data shall be stored in the MySQL database on the class server in the team's account -DONE
7. Application shall be deployed from the team's account on AWS -DONE
8. No more than 50 concurrent users shall be accessing the application at any time -DONE
9. Privacy of users shall be protected and all privacy policies will be appropriately communicated to the users. -DONE
10. The language used shall be English. -DONE
11. Application shall be very easy to use and intuitive. No prior training shall be required to use the website. -DONE
12. Google analytics shall be added -DONE
13. Messaging between users shall be done only by class approved methods and not via e-mail clients in order to avoid issues of security with e-mail services. -DONE
14. Pay functionality (how to pay for goods and services) shall not be implemented. -DONE
15. Site security: basic best practices shall be applied (as covered in the class) -DONE
16. Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development -DONE
17. The website shall prominently display the following text on all pages *"SFSU Software Engineering Project, Spring 2017. For Demonstration Only"*. (Important so as to not confuse this with a real application). -DONE