



SW Engineering CSC648/848 Summer 2018

# PiCarousel Team 03

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Milestone 4

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## 1) Product summary (e.g. how would you market and sell your product – max ¾ page)

1- Name: PiCarousel

2- All functions: First thing user can do when they go to our main page the can search from our search bar by typing in what they are looking for also they can search by category. If user finds something they like they can simple click on the picture it becomes bigger and can add it to the cart once the user is down they can simply click on cart and they will to download page in order for any user to download they must register after registration the user can download the picture after they view it in the small box in the download section making sure everything they is there and they simple click download to retrieve the pictures. Now also when users go to our site they will see upload page if they want share their content when they go to our main page they can simply click on upload in which it will direct them to upload their pictures again they must be registered. After users uploads pictures they can enter in the fields below the following first they enter the title, second a description of their picture a short summary, third they enter the type of tags that will help people search for their photo. Once they are done they simply click upload and wait for the admin to approve their pictures before going live.

3- Whats unique: We are super competieve with other products on the market also we provide better pricing and we have sections in our main page that helps expose users uploaded content to more people which provides an incentive for them to do good pictures.

4- URL: <http://13.59.250.236/>

Short summary: PiCarousel is a user populated repository for photo storage, upload, download and editing that will serve as a storefront, connecting aspiring and professional photographers with the customers they need to drive a successful business. While our competitors focus on their searching and browsing functions PiCarousel will leverage newer layouts and display techniques that will push the art to the front page. PiCarousel is designed to get our members and content contributors the exposure they need to grow. Furthermore, PiCarousel shall operate as a store front, as such customers will be allowed to purchase copies for personal use and licenses for business use, on all of the public photos on the site. Our artists can choose between several packages to determine their exposure level with the most expensive packages getting them prime positioning on the carousels. PiCarousels goal is to get artists exposure at a minimal cost therefore most of the operating costs we



intend to offset using advertising and a small consignment fee added to each purchase. That way our artists can get their name out there without going bankrupt in the process.

## 2) Usability test plan – 2 pages max

### Upload

#### 2) Major Function Upload Test case

Test objective:

The objective of this test is to make sure that the upload page fully and is able to deliver the uploaded pictures to the admin for approval. At any point is the tester counters an error we ask you to record and also for the tester to check more than once. Now the tester shall upload any jpg picture the is appropriate following the upload the tester check fill out all fields such as title, summary, and tags. The title of the picture refers to the name which will be displayed for user when they want download the picture that is being uploaded.

Moreover, info about photo is a place where the tester will write a brief description that is describing the picture being uploaded for example, if it's a jungle, the tester will write this is a picture of a jungle taking in Africa. Last but not least the tester shall input a series of tags that describe the picture this will allow our server to bring up the picture based on percentage search of tags. For example, if the picture is of an jungle with animals, tester shall enter the following tags jungle, animals, trees, and night/day(depends on picture).

After completing these tasks the tester shall click upload which will send it to the admin for approval once admin approves tester shall check if the picture is there by going to the search option and typing one of the tags that was used in the picture tags section of the upload.

## Test Plan

- 1- First go to this <http://13.59.250.236/>
- 2- Makes sure you are registered user by clicking sign up here and registration
- 3- After registering go back to <http://13.59.250.236/> and Click on profile name top right and pick upload
- 4- Find the picture your looking to upload make sure it's a jpg
- 5- Either drag the picture into our blue box or click the blue box which will open up file explorer search for picture then click on it
- 6- Once this is done fill out the Title appropriate the picture that was just upload (make sure its an appropriate name)
- 7- Second fill out a brief summary describing the picture in section named info about picture
- 8- Third fill out 4 to 5 tags that describe your picture that will come up in the search when you search for the picture in the search bar in the main page
- 9- Once all fields are filled out please click the upload button
- 10- Wait for the admin to approve picture once admin approves picture
- 11- Go back to this <http://13.59.250.236/> and type in one of the tags listed when the picture was uploading
- 12- Make sure picture is there it the picture is there then the test was successful

## Questions

How satisfied are you with our service?

Extremely  
Dissatisfied

Moderately  
Dissatisfied

Slightly  
Dissatisfied

Neutral

Slightly  
Satisfied

Moderately  
Satisfied

Extremely  
Satisfied

How would you describe process it took to upload?

Extremely  
Dissatisfied

Moderately  
Dissatisfied

Slightly  
Dissatisfied

Neutral

Slightly  
Satisfied

Moderately  
Satisfied

Extremely  
Satisfied

How flued was navigating through the website?

Extremely  
Dissatisfied

Moderately  
Dissatisfied

Slightly  
Dissatisfied

Neutral

Slightly  
Satisfied

Moderately  
Satisfied

Extremely  
Satisfied

### 3) QA test plan

#### Objective:

By defining a QA Test Plan, the development team can be better equipped to combat bugs, slow performance, and maintain the overall foundation of the PiCarousel website. The QA Test Plan shall be provided with the exact instructions on the procedure the tester must perform.

The tester shall ensure that each Test Plan is performed for **Google Chrome/v68.0.3440** and **Firefox/v61.0**. The tester has the responsibility of reporting that the function passed or failed to meet the desired specs. If the tester reports a failure, the duty of the developers is to address the issue. A priority shall be assigned to each issue/bug reported.

The tester shall expect to be supported by the following hardware and software being used for the PiCarousel website. The server being used to host the website ran by

AWS and is allocated a 1 GHz vCPU and 1 GB of RAM. The AWS server is ran on Linux 4.4.0-1060-aws. The following software are being used for back-end frameworks: MySQL/5.7, Apache/2.4.18, ExpressJS, Enzyme, and Jest. The tester shall not be responsible for installing any dependencies. For the front-end, the software packages being used are as follows: Bootstrap 4.1 and FontAwesome 5.2.

At the end of the QA testing, the tester will be able to definitively state whether the upload function is performing to specs or not. The test shall first demonstrate that the function can be routed to. The tester shall not be prompted with an error message of any kind. Any fields the user inputs shall be validated and return the user with an error code. The tester shall be able to enter an alphabetical input to the Title and Description. The tester shall be prompted for a title and description when giving an empty input. If the user adds an illegal file format, they will be prompted with an error message (i.e. uploading a .gif file).

Browser	Description	Test Input	Expected Output	Pass/Fail
Google Chrome	Test that image upload page can be navigated to from the navbar.  Navigate mouse to hamburger menu and select "Upload".	Only mouse input necessary, see description	Tester shall be presented with image upload page.	Pass



	Navigate mouse to navbar upper-right corner and select "Upload".			
Google Chrome	<p>Test image upload working and linked to database. See Test Input for input on image upload page.</p> <p>Verify that the image is in the database by selecting "Manage my pics" in the navbar.</p>	<p>Title: "Bird"</p> <p>Description: "Test"</p> <p>Select "Free"</p> <p>Select "Public"</p> <p>Choose File: "Tester Specified"</p> <p>Category: All</p>	Tester shall be redirected to homepage.	Pass
Google Chrome	Test that field validation is working correctly.	<p>Title: "-1"</p> <p>Description: "-1"</p> <p>Select "Free"</p> <p>Select "Public"</p> <p>Choose File: "Upload .txt file"</p> <p>Category: All</p>	Tester shall be presented with error messages: "Illegal character encountered" && "Sorry only jpeg and png file format allowed"	FAIL

Browser	Description	Test Input	Expected Output	Pass/Fail
Firefox	<p>Test that image upload page can be navigated to from the navbar.</p> <p>Navigate mouse to hamburger menu</p>	Only mouse input necessary, see description	Tester shall be presented with image upload page.	Pass

	<p>and select "Upload".</p> <p>Navigate mouse to navbar upper-right corner and select "Upload".</p>			
Firefox	<p>Test image upload working and linked to database. See Test Input for input on image upload page.</p> <p>Verify that the image is in the database by selecting "Manage my pics" in the navbar.</p>	<p>Title: "Bird"</p> <p>Description: "Test"</p> <p>Select "Free"</p> <p>Select "Public"</p> <p>Choose File: "Tester Specified"</p> <p>Category: All</p>	Tester shall be redirected to homepage.	Pass
Firefox	Test that field validation is working correctly.	<p>Title: "-1"</p> <p>Description: "-1"</p> <p>Select "Free"</p> <p>Select "Public"</p> <p>Choose File: "Upload .txt file"</p> <p>Category: All</p>	Tester shall be presented with error messages: "Illegal character encountered" && "Sorry only jpeg and png file format allowed"	FAIL

#### 4) Code Review:

- a) Our code has proper indentation and comments. It is readable and understandable by new programmers. The white spaces and tabs are used correctly throughout the code to enhance readability. The code is also documented well to help understand it better for future coders.
- b) I reviewed the code in the file called "signUP.ejs" for this section of the documentation. Here is a code snippet from the file that was reviewed:

```
<label for="psw" id='psw_label'><b>Password</b> <span id='symbol_pass'></span></label>
<input type="password" placeholder="Enter Password" name="psw" id="psw" required>
```

```
<br></br>
```

```
<label for="age" id='age_label'><b>Age <span id='symbol_age'></span></b></label>
<input type="number" placeholder="Enter Age" name="age" id="age" notrequired>
```

```
<br></br>
```

```
<br><b>Gender</b>
<label for="gender" class="container">Male
  <input type="radio" name="gender" value= 'male'>
  <span class="checkmark"></span>
</label>
```

```
<label class="container">Female
<input type="radio" name="gender" value='female'>
<span class="checkmark"></span>
</label> </br>
```

```
<!-- START CAPTCHA -->
```

```
<br>
  <b>Captcha</b> </br><br>

  <div class="capbox" align="center">

    <div id="CaptchaDiv" align="center"></div>

    <div class="capbox-inner" align="center">
      Type the above number:
```

```

        <input type="hidden" id="txtCaptcha">
        <input type="text" name="CaptchaInput" id="CaptchaInput" size="15"><br>

    </div>
</div>
<br><br>
<!-- END CAPTCHA -->

<br></br>
<label>
    <input type="checkbox" name="remember" style="margin-bottom:15px"> By checking this box you agree to our <a href="#" style="color:blue">Terms of Service</a>
</label>

<div class="clearfix">
    <a href="#"><button type="button" onclick="document.getElementById('id01').style.display='none'" class="cancelbtn">Cancel</button>
    <button type="submit" class="signupbtn">Sign Up</button>
</div>
</div>

</form>
</div>

<script>
// Get the modal

// When the user clicks anywhere outside of the modal, close it

```

The code was reviewed by Ekta Tandel.

Here are the comments from the email:

The code is quite readable and understandable. There are some comments about where the big chunks of code begin and end, maybe add more comments on the logistics of how the code works. The indentation looks alright. The naming conventions for variables and functions are good.

## 5) Self-check on best practices for security – ½ page

The major assets being protected on our website are the user email and password.

There are precautions that protect posting things that are inappropriate. The account information and the images go to the admin first, they are only visible on the site. The users and the uploaded images are verified before being uploaded.

Password is encrypted in the database and thus protected from scams. Search bar,

all input fields on the Sign Up form and Sign In form are validated. The fields:

firstname, lastname, email, and password are validated to ensure the security of our customers.

## 6) Self-check: Adherence to original Non-functional specs

1. Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agreed in M0 (some may be provided in the class, some may be chosen by the student team but all tools and servers have to be approved by class CTO). **DONE**
2. Application shall be optimized for standard desktop/laptop browsers e.g. must render correctly on the two latest versions of all major browsers: Mozilla, Safari, Chrome. **DONE**
3. Data shall be stored in the team's chosen database technology on the team's deployment server. **DONE**
4. No more than 50 concurrent users shall be accessing the application at any time **DONE**
5. Privacy of users shall be protected and all privacy policies will be appropriately communicated to the users. **DONE**
6. The language used shall be English. **DONE**
7. Application shall be very easy to use and intuitive. **ON TRACK**
8. Application shall render well on mobile devices (UI shall be responsive) **ON TRACK**
9. Google analytics shall be added **ON TRACK**
10. No e-mail clients shall be allowed **DONE**
11. Pay functionality, if any (e.g. paying for goods and services) shall not be implemented nor simulated. **DONE**
12. Site security: basic best practices shall be applied (as covered in the class) **DONE**
13. Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development **DONE**
14. The website shall prominently display the following exact text on all pages "*SFSU Software Engineering Project CSC 648-848, Summer 2018. For Demonstration Only*" at the top of the WWW page. (Important so as to not confuse this with a real application). **DONE**

