Petree’s Prints

CEN3031

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Date Started: 2/12/19

Date Delivered: 4/24/19

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**1. Product Overview**

**1.1 Brief Description of the Project**

This project consists of a web app that allows customers to order large-format prints of their images on various media. Users can upload a file, select options, and then their payment details are processed via PayPal. The business owner can see and manage these orders through a business dashboard, as well as customize the size and medium options that customers may choose from.

**1.2 Major Features Proposed & Completed**

**Description of prioritized features for this development effort**

The two most important features for this web app were the user workflow for uploading an image, connecting to PayPal, and completing an order and the business owner workflow for viewing, processing, and fulfilling orders. <<if needed>> We decided to shift our focus away from user accounts in favor of utilizing PayPal integration for increased security. This ensures that customer information is secured even if development is not continued on the web app.

|  |  |
| --- | --- |
| **Proposed** | **Completed** |
| * Photo upload * Select order options * Customer cart * PayPal connection * Business-side order database * Business-side app control panel * Automated order update emails * “About Us” page with image gallery * User accounts with order history * Image size restrictions | * Photo upload * Select order options * PayPal connection * Business-side order database * Business-side app control panel * Semi-automated order update emails * “About Us” page with image gallery |

**1.3 Links to Useful Project Information**

**Live Web Application URL** <https://petrees-prints.herokuapp.com/>

**GitHub** (Code Repository) - <https://github.com/ajohnsonhogan/PhotograFly>

**Web Server Hosting Provider - Heroku** <https://www.heroku.com/>

* Username: petreesprints2@gmail.com
* Password: printsgroup2!
* App Name: petrees-prints

**Payment Processing – PayPal** <https://sandbox.paypal.com>

* Sandbox owner login: [ownerBoi@paypal.com](mailto:ownerBoi@paypal.com)
* password: 12345678
* Sandbox payer login: [buyerBoi@paypal.com](mailto:buyerBoi@paypal.com)
* password: 12345678

**Database Hosting: MongoDB Atlas**

* Username: petreeprints
* Password: password1234!

**Wireframes** (Visual Low-fidelity Mock-ups of Web Application) <https://drive.google.com/file/d/1cPj126CbJWOBru-zyOEdyAQo7sLxwDG3/view>

**Pivotal Tracker Link** <https://www.pivotaltracker.com/n/projects/2310225>

**2. Product Planning**

**2.1 About the User Stories Creation Process**

After receiving information from the client about the web app, we created user stories that encapsulated each aspect of the web app’s functionality. These user stories focused on the end user’s interactions with the site and ability to successfully complete orders as well as the business owner’s ability to quickly and efficiently fulfill orders and run their business.

During the development process, our team refined the user stories and tasks in order to better align with the intended goals of the web app and the features we planned to implement. This included adding new user stories for features that we determined were necessary to run the site, removing user stories for features that were phased out, and updating user stories and their tasks to be descriptive of the actual development process.

Over the course of the development effort, user stories were modified based on issues discovered by the development team as well as feedback from the client and usability testers.

**Pivotal Tracker link:** <https://www.pivotaltracker.com/n/projects/2310225>

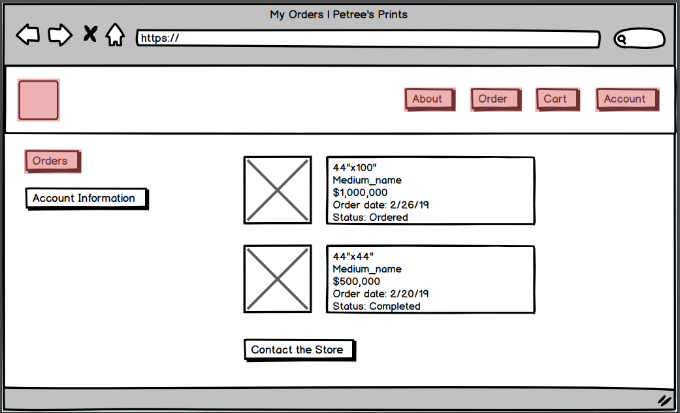
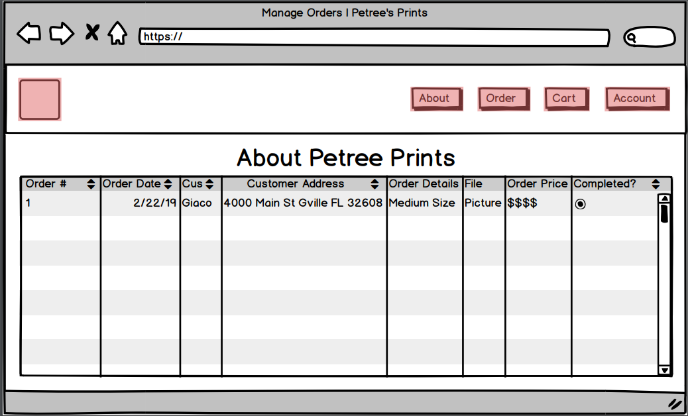
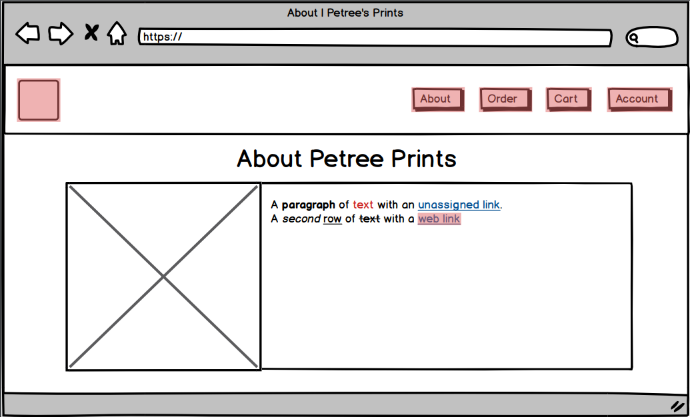
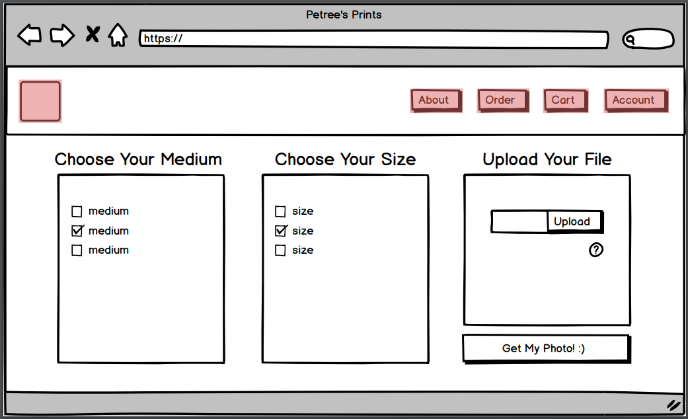
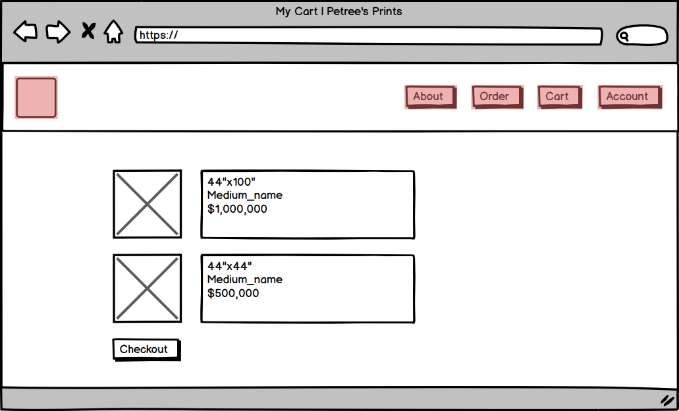
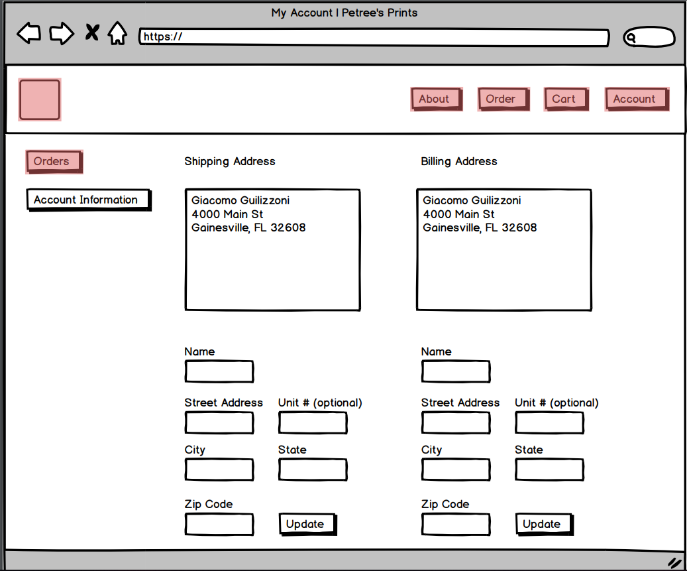
**2.2 About the Wireframes Creation Process**

The client provided some basic expectations of the functionality required for the web app. Using these specifications, our team created a wireframe for each page of the web app, including the various buttons and fields that would allow users to interact with the app. These wireframes also included concepts for a business-side order management page which was not specified by the client, but that our team felt was necessary for the proper functioning of the web app.

During the development process, the visual design of some pages changed to better communicate the intended purpose of the web app to users and the client. These changes were motivated by input from testers during our usability testing procedures. In addition, some new pages and features were added during the development process when we felt that they could further the client’s goals and the usability of the site.

The interactions between each element of the web app were also mapped out at this stage using UML interaction diagrams in order to help us better understand the required functionality for the web app. Due to technical constraints discovered during the Agile development process, these described interactions are not entirely representative of actual functionality in the implemented web app, but they are indicative of the “broad strokes” of the web app’s functionality.

We constructed wireframes for each page on the web application (as seen on the following page)

**2.3 Wireframes**

Customer Account Page

Customer Cart

Home Page / Order Page

About Page

Business-side Dashboard

Customer Order History

**3. Technical Specifications**

**MEAN.JS Development Technology Stack**

This web application was built using MEAN.js Version 0.4.2 <<http://meanjs.org>>. We cloned the repository to GitHub at <<https://github.com/ajohnsonhogan/PhotograFly>>.

**Modules Developed for this project**

server.js - <https://bit.ly/2Xmmsp9> - Michael

client/about.html - <https://bit.ly/2DmbBUF> - Matthew, Jackie

client/account.html - <https://bit.ly/2Gt3wiO> - Asher, Jackie, Sara

client/adminpage.html - <https://bit.ly/2IGUFM3> - Asher, Jackie

client/business.html - <https://bit.ly/2UKDe4i> - Matthew, Asher

client/index.html - <https://bit.ly/2vbSlVi> - Asher, Jackie, Michael

client/nav.html - <https://bit.ly/2V5nqsv> - Michael, Asher

client/success.html - <https://bit.ly/2ZlJYVa> - Michael

client/images/ - <https://bit.ly/2Dmldyz> - Whole Team

client/js/app.js - <https://bit.ly/2GtKMzE> - Michael, Jackie

client/js/main.js - <https://bit.ly/2KNqGVt> - Michael, Jackie, Asher, Zihan

client/js/controllers/PaypalService.js - <https://bit.ly/2UKJCso> - Michael

client/js/controllers/businessController.js - <https://bit.ly/2Gj9gdM> - Matthew, Jackie

client/js/controllers/mediumController.js - <https://bit.ly/2KWWojg> - Jackie, Asher, Michael

client/js/controllers/orderController.js - <https://bit.ly/2XkKBwf> - Michael, Asher, Jackie, Matthew

client/js/factories/mediumFactory.js - <https://bit.ly/2IAQktQ> - Jackie

client/js/factories/orderFactory.js - <https://bit.ly/2Xh8Rzk> - Jackie, Matthew

server/config/app.js - <https://bit.ly/2Dwn7wX> - Michael

server/config/config.js - <https://bit.ly/2XiKP6Y> - Michael, Jackie

server/config/express.js - <https://bit.ly/2KQBbHt> - Michael, Jackie

server/controllers/mediums.server.controller.js - <https://bit.ly/2vcj0S1> - Jackie

server/controllers/orders.server.controller.js - <https://bit.ly/2XtOMpP> - Matthew, Jackie

server/controllers/sizes.server.controller.js - <https://bit.ly/2V9bpSG> - Jackie

server/models/mediums.server.model.js - <https://bit.ly/2Iy9UI7> - Jackie

server/models/orders.server.model.js - <https://bit.ly/2ZkHyG5> - Jackie

server/models/sizes.server.model.js - <https://bit.ly/2vaHdbd> - Jackie

server/routes/mediums.server.routes.js - <https://bit.ly/2XoXV2Q> - Jackie

server/routes/orders.server.routes.js - <https://bit.ly/2ZlIOZR> - Matthew, Jackie

server/routes/sizes.server.routes.js - <https://bit.ly/2Zk6LAF> - Jackie

**Database**

Mongo is a No-SQL database that stores your data in simple schemas. Below are schemas that were developed for your project.

*Medium Schema:*

name: String,

price: Number

*Size Schema:*

name: String,

price: Number

*Order Schema:*

name: String,

email: String,

address: String,

size: String,

medium: String,

price: String,

image: String,

created\_at: Date,

status: String

**User Interface Styling (CSS & Bootstrap/Google Font API)**

Your web app was styled using CSS v. 2.1.3 & Bootstrap v. 3.3.5, as well as the Google Font API.

**Location of CSS & Styling for this project**

client/styles/main.css - <https://bit.ly/2UOFVCg> - Asher, Matthew, Jackie, Michael

**4. Deployment Information**

4.1 Description of Deployment

The application was deployed with Heroku, a cloud-based lightweight hosting platform. This platform interfaces with the Master branch of the GitHub repository, automatically updating and deploying changes to the codebase

4.2 Deployment Links

**Live Web Application URL** <https://petrees-prints.herokuapp.com/>

**GitHub** (Code Repository) - <https://github.com/ajohnsonhogan/PhotograFly>

**Web Server Hosting Provider - Heroku** <https://www.heroku.com/>

* Username: petreesprints2@gmail.com
* Password: printsgroup2!
* App Name: petrees-prints

**Payment Processing – PayPal**

* Sandbox owner login: [ownerBoi@paypal.com](mailto:ownerBoi@paypal.com)
* password: 12345678
* Sandbox payer login: [buyerBoi@paypal.com](mailto:buyerBoi@paypal.com)
* password: 12345678

**Database Hosting: mLab**

* Username: petreeprints
* Password: password1234!

**Wireframes** (Visual Low-fidelity Mock-ups of Web Application) <https://drive.google.com/file/d/1cPj126CbJWOBru-zyOEdyAQo7sLxwDG3/view>

**Pivotal Tracker Link** <https://www.pivotaltracker.com/n/projects/2310225>

**4.3 General Instructions for your deployment**

The web app is currently deployed using Heroku under the low-traffic setup at no cost. This could be migrated to a new server provider using the provided information if the situation necessitates. This deployment automatically updates from the Master branch of the provided GitHub repository. We recommend making changes to a new branch before pushing changes to the live site in order to minimize site downtime.

**Database**

We are using a Mongo database for your web app. It is located at <<https://mlab.com/databases/petree_prints>>. You can log in to this page using the above credentials. The database is currently using 16MB of space; at current and expected capacity, this solution is free.

The current connection string/key/parameters are <mongodb://root:password1@ds031671.mlab.com:31671/petree\_prints>

You can update this value in your web app in server/config/config.js - <https://bit.ly/2XiKP6Y>

**Image Storage**

We are currently storing your files for your web app on S3 Amazon Web Storage. Your current plan is free, it has an unlimited capacity for the total volume of data and number of objects is unlimited. Uploads can range in size from a minimum of 0 btyes to a maximum of 5 terabytes.

Login Information: [Petreeprints2@gmail.com](mailto:Petreeprints2@gmail.com) & password1234!.

If you want to change your username and password, visit <<https://signin.aws.amazon.com/updateaccount?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fbilling%2Fhome%23%2Faccount>>.

If you want to review your account visit <<https://console.aws.amazon.com/billing/home?#/account>>

The current connection for accessing this is implemented via API in the code.

**5. Testing Information**

We conducted extensive testing throughout the development process. Due to the small scale of the web app, it made the most sense for us to conduct manual tests of each element of the app during the development process. These served the purpose of providing usability feedback as well as revealing potential errors and bugs so that they could be resolved. We also wrote several Mocha tests to test the order database functionality.

**6. Supplemental Documents**

1. Video: How to set up with your own PayPal
   1. <https://youtu.be/AkZuv4Gj3A4>