CALIFORNIA STATE UNIVERSITY, FULLERTON
CPSC 473 - Professor: Kenytt Avery

Project 1
Documentation

By:

Team 1

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Submit date: April 10, 2017.

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1. Introduction

1.1 Purpose and Scope

This project 1 is using client-side JavaScript, AJAX, and Json server for back-end service to build a web application where parents can share embarrassing baby pictures with their children's potential dates.

This document describes how to install and run the project, the application architecture and workflow and also user manual showing how to use the web application.

1.2 System Description

This web application is implemented using Json Server, JavaScript, HTML, CSS, and Bootstrap.

Main functions:
- Create account
- Login
- Upload picture to db.json (base64 picture)
- View available pictures on db.json

2. Installation/Configuration

2.1 Download

Git
Install git if it is not already installed
Then in terminal:

git clone https://github.com/PayaamEmami/CPSC_473_Project

Browser-sync & json server
Install Node.js from nodejs.org if it is not already installed
Then in terminal:
npm install -g browser-sync
npm install -g json-server

2.2 Running

- Open 2 terminals and go into the project directory by using cd. For example :

  cd C:\Users\userA\front-end-dev-book\CPSC_473_Project/

- On the first terminal, start json server by typing:

  json-server --port=3002 --watch db.json

- On the second terminal, start the browser-sync by typing:

  browser-sync start --server --browser chrome --files ".html, stylesheets/*.css, scripts/*.js"*

- Google Chrome will start automatically, if not, open this link below on Chrome:

  http://localhost:3000/index.html

3. Application Architecture and Workflow

The application architecture we have chosen has been similar to our homework assignments thus far.

In regards to file structure, in our root directory we have our: html files, db.json file, readme file, img folder, scripts folder, and stylesheets folder.
The img folder contains default images used on our web app.
The stylesheets folder contains all the css files used to style our web app.
The scripts folder contains all of the javascript files. The files are: drag.js, main.js, photo.js, test.js.

The drag.js provides functionality for the drag and drop of image uploads. One functionality of note is that this file converts the images to base64 before it stores the images.

The photo.js provides functionality with handlers for uploading images to the web application.

The main.js provides the main functionality for mostly all features across the web application. Features included are: sign up, log in, displaying image feed, displaying image for modal pop up, and the search feature.

The backend of the application uses json-server (as you saw in the installation/configuration). Json-server uses a file db.json to store information and acts as the database that allows us to store and retrieve data in that file.
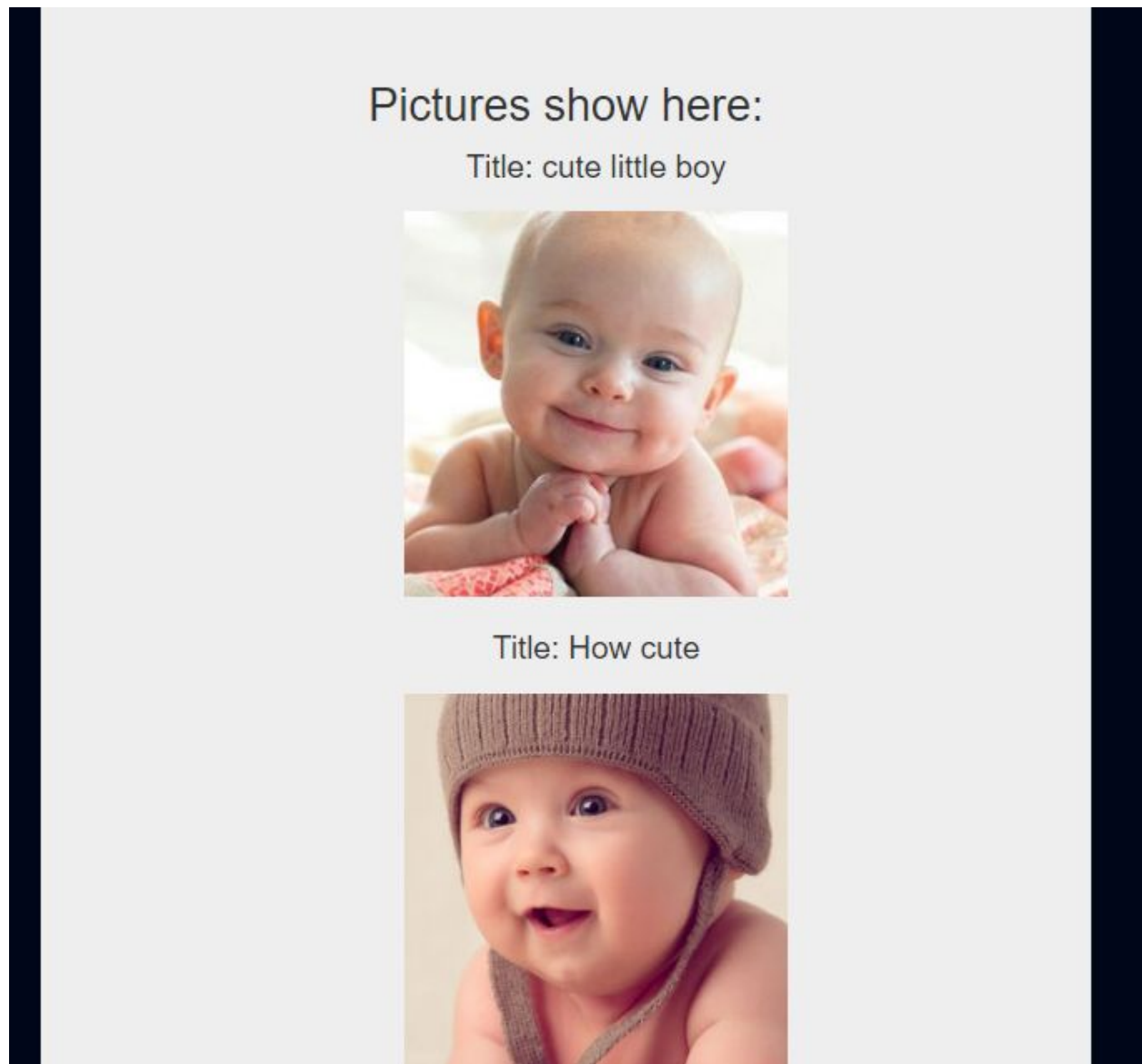The db.json file consists of two simple objects, signup which represents a user, and pics which represents images that are uploaded.

4. User Manual

4.1 Home Page
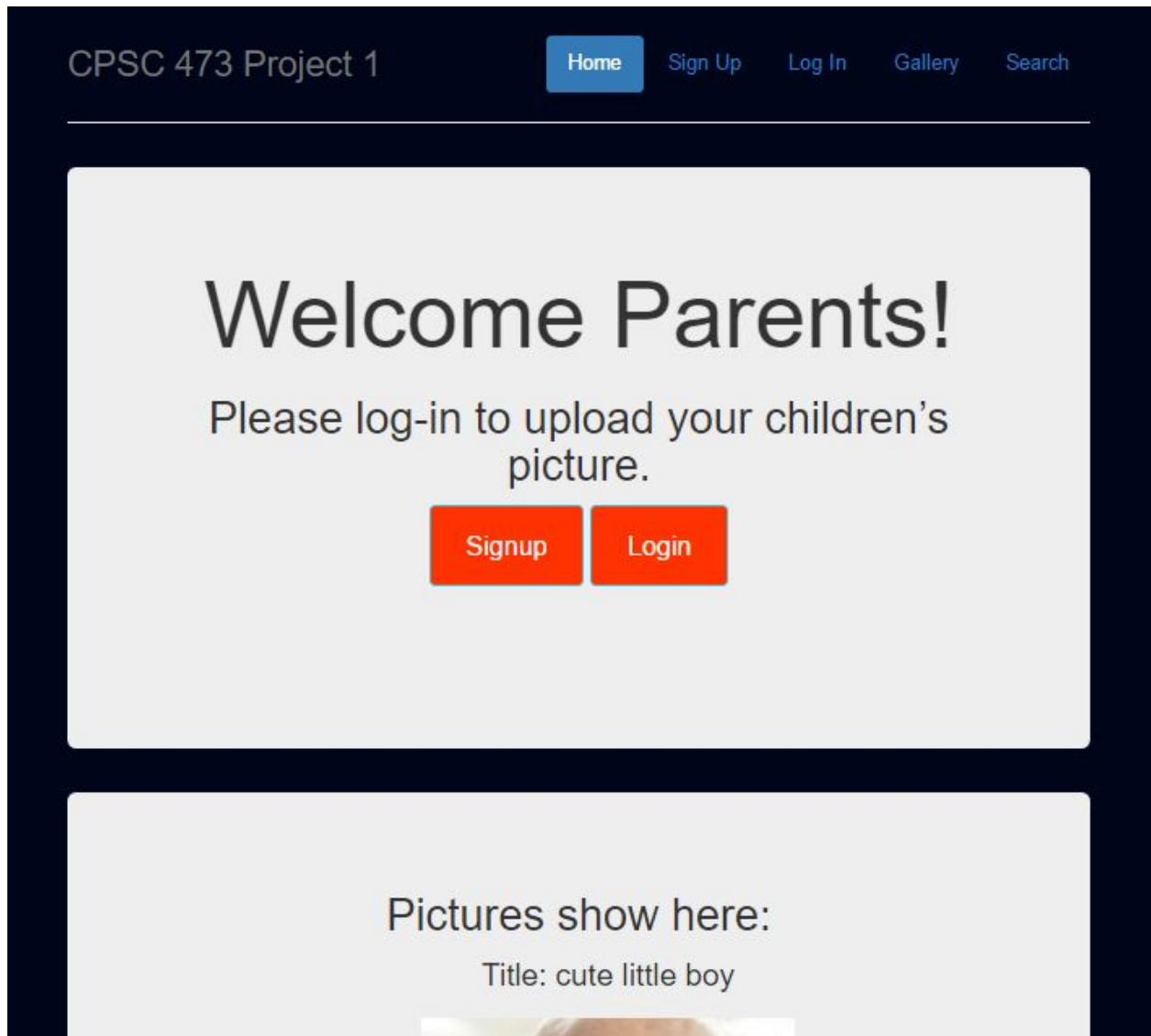
The homepage is the main landing page of the website. The user has the option to sign up or log in via the navbar or from buttons displayed on this main page.
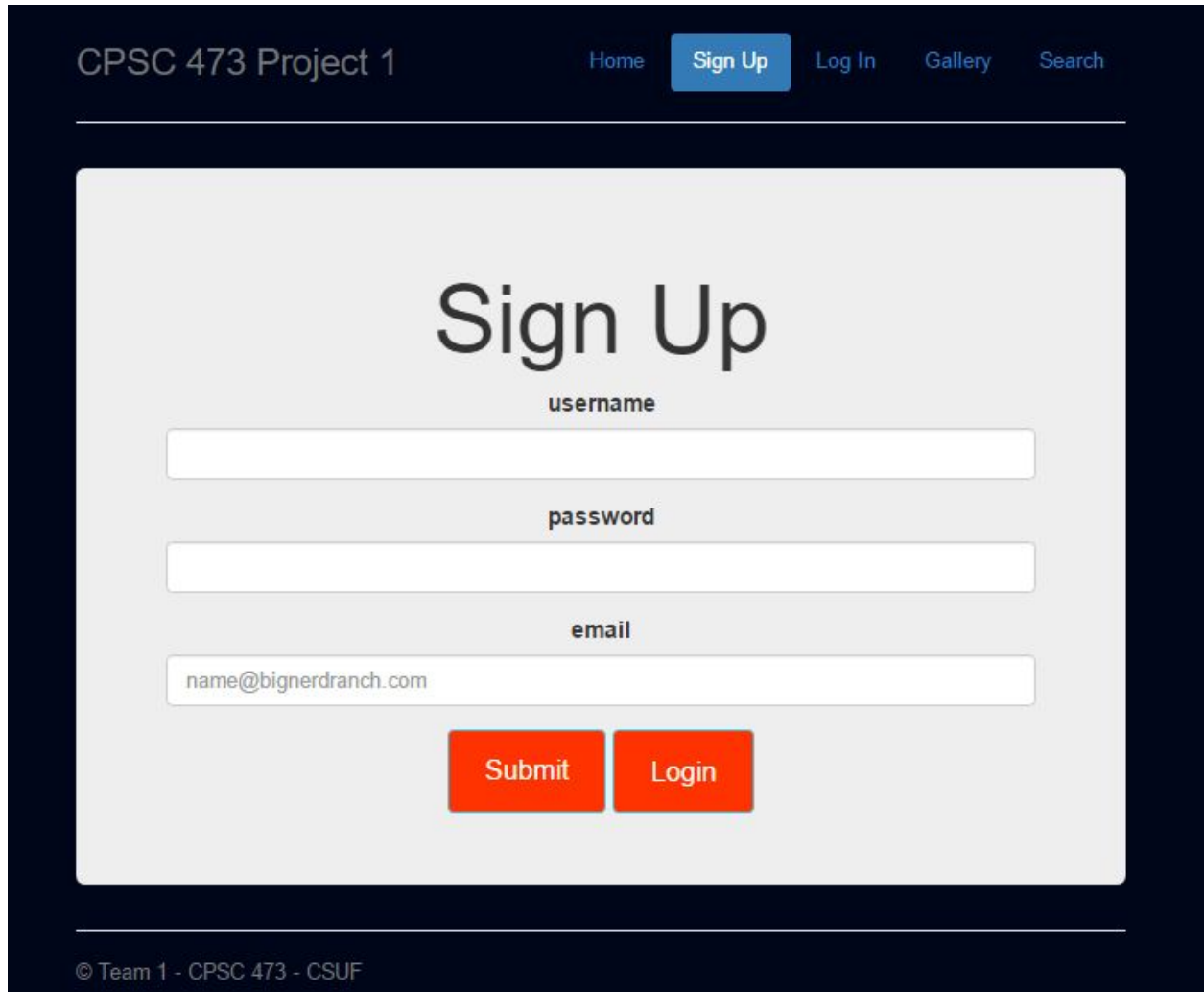
Still on the main page, below the signup or login options, is a feed of the images uploaded to our application.

Users can click on an image for the image to pop-up for a closer look along with the title, description, and date of when the image was uploaded.
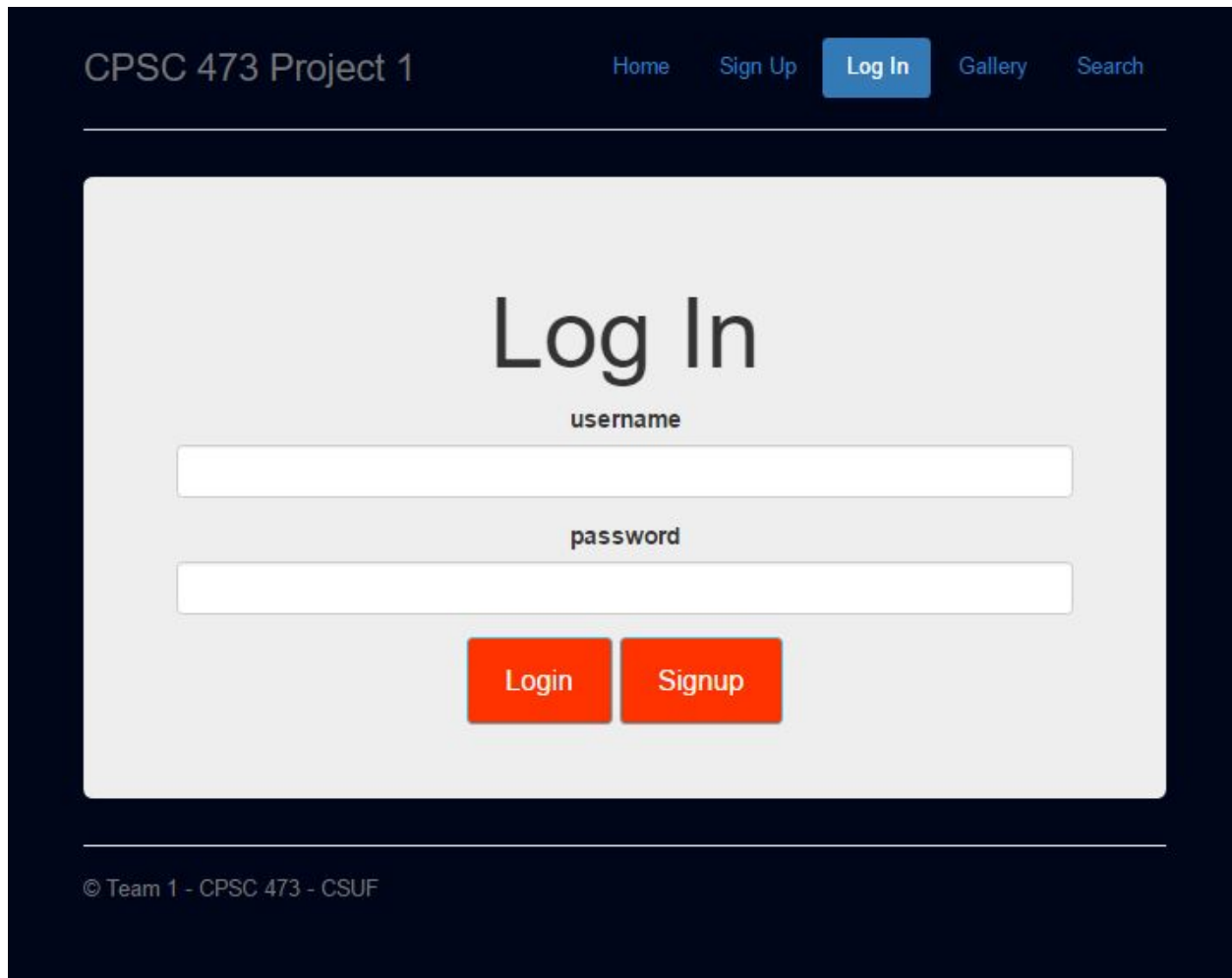
4.2 Sign up

On the signup page, the user can enter in their username, password, and email to sign up to the application.
Once the user clicks 'Submit' they will need to login with their information.
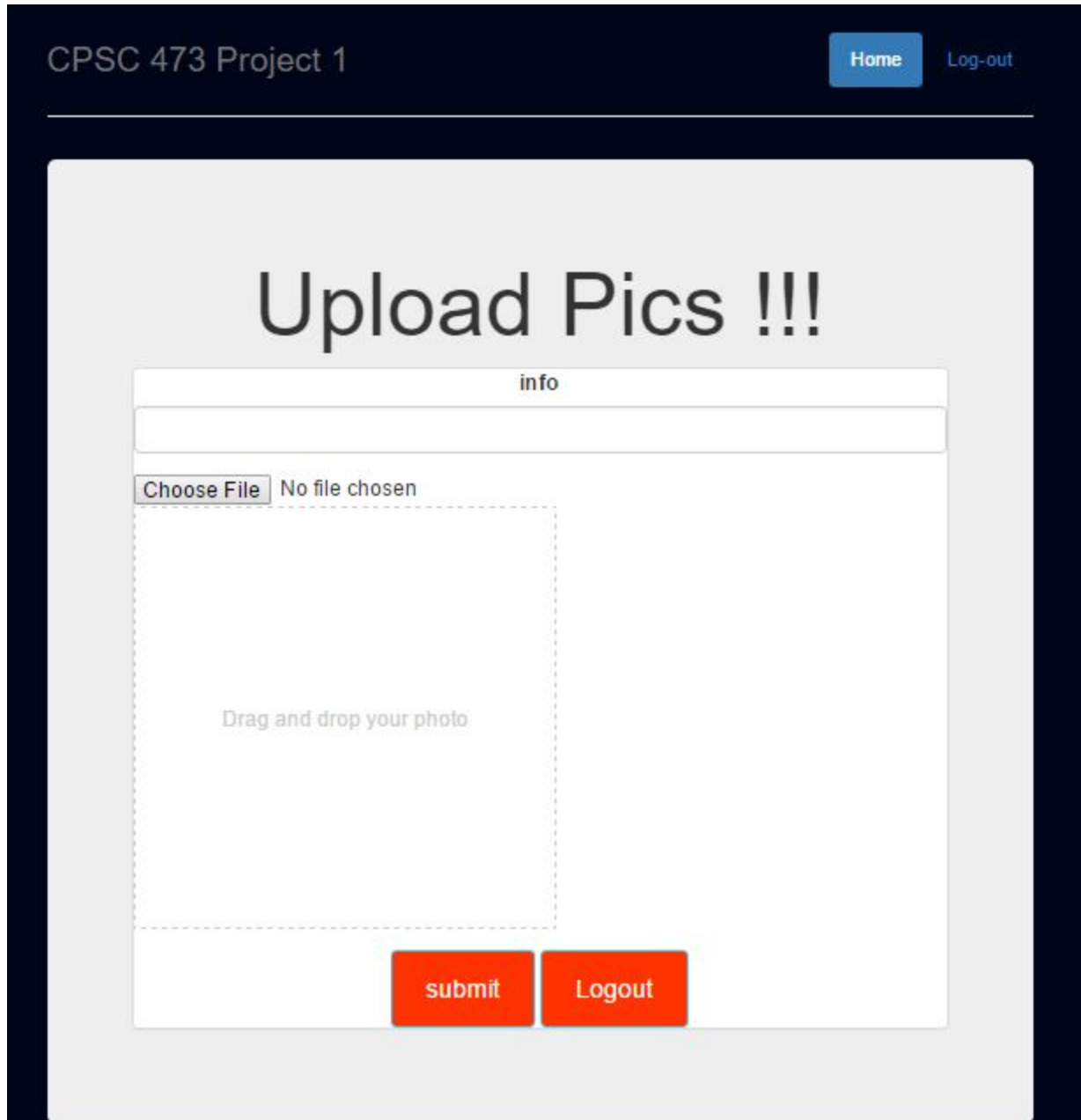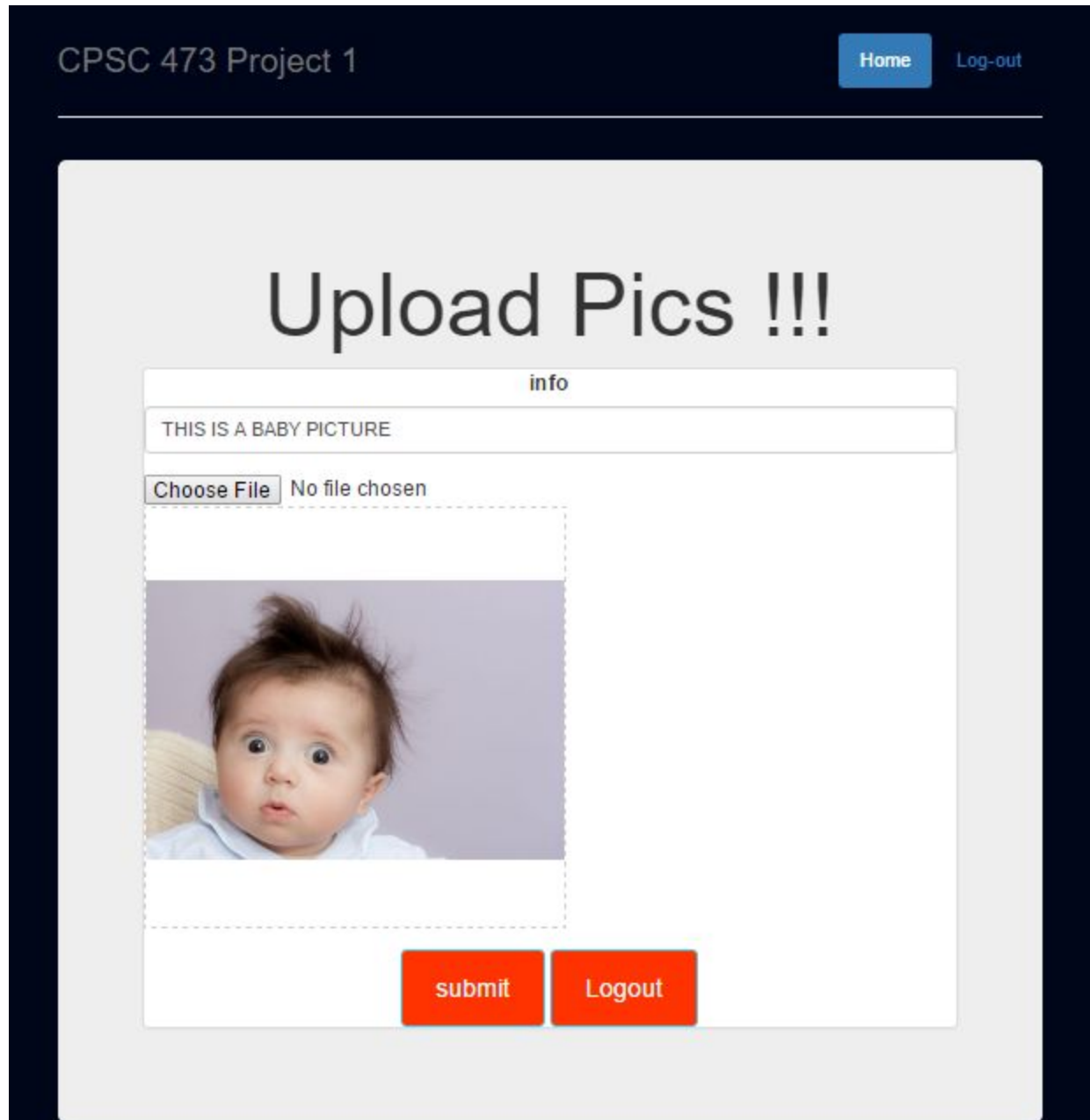
4.3 Log-in

On the login page, the user will simply be able to submit their information that they signed up with to log into the application. After the user clicks 'Login' they will be redirected to the upload page.
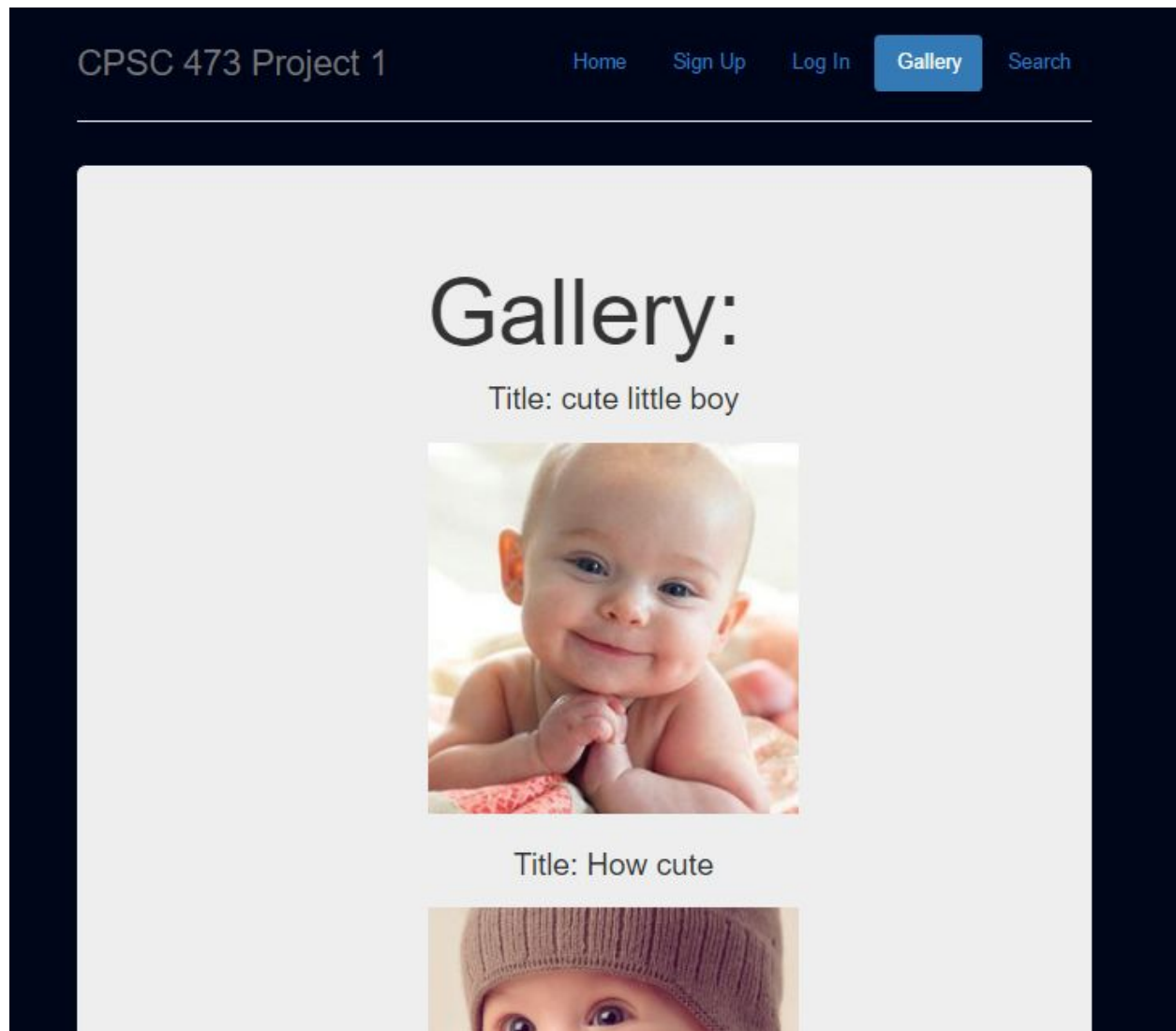
4.4 Upload

On the upload page, the user will be able to enter in a title along with a photo to upload.

The above photo shows an example. The functionality for uploading a photo is by simply dragging and dropping the image into the drag box area.

4.5 Gallery

The gallery page is a simple view feed of all the baby images that are stored into the database.

4.6 Search

The search page allows a user to search images by a title and allows them to find baby pictures matched against their search string.