TECHNICAL TEST

We would like to see a demonstration of your skills, knowledge and resourcefulness. The following test is designed to test your abilities and experience we found in your CV. Please provide your response as a ZIP archive.

Creating a Responsive Gallery using Bootstrap 4 and Flickr and Symfony4

Demonstrate your level of skill with jquery by creating a Bootstrap Gallery browser using the Flickr API and your Symfony skills by creating a best practice CRUD for the management of Categories.

There will be no instructions provided here regarding how you layout your application apart from which technology to use. It is totally left up to you on how you implement the brief. The only prerequisites here are that the solution is provided with the following technologies and approaches:

1. **JQuery** - you build the solution using JQuery and associated plugins as required.
2. **Bootstrap 4** - you build the solution using best practice Bootstrap 4 architecture.
3. **Responsive layout** - while responsive degradation is not communicated here, you should be able to provide a direction with regards to how the interface degrades when viewed in a mobile device.
4. **MVC Framework Backend Solution** - you build the solution using an open source MVC framework using best practice methods for **CRUD** and **Authentication**.

LICENSE TO OVER-ENGINEER
Use this opportunity to demonstrate your knowledge of Application Architecture as a Full Stack Developer. While the test is simple, it is not enough that you complete it. It was made simple so that you can show off the best that you can do by way of laying out files and application architecture when developing backend solutions.

THIS IS A 2 PART TEST
There are 2 parts to this test. The first tests your ability to work with Frontend technology such as a JQuery and Bootstrap 4, while the second is designed for you to demonstrate your skills with Symfony4.

1. JQUERY / BOOTSTRAP 4 FRONTEND
2. SYMFONY 4 BACKEND / API

METRICS and DESIRED OUTCOMES
You are expected to demonstrate the following:

- Awareness of best practices when delivering frontend solutions with Bootstrap 4.
- Awareness of best practices when delivering frontend solutions with JQuery.
- Awareness of best practices when delivering backend solutions with Symfony.
- Ability to develop AJAX based systems and Ability to develop APIs.
- Architecture: has a good grasp of code and file structure.
- Ability to think on your feet and provide recommendations for responsive degradation as well as best practice implementation of responsive design skills.

LINKS

- **JQuery**: http://jquery.com
- **Flickr API**: https://www.flickr.com/services/api/
- **Symfony Framework:** https://symfony.com/

PART 1: JQUERY / BOOTSTRAP 4 FRONTEND
You will need to create an image browser using Bootstrap 4. Use the wireframes located in the **WIREFRAMES** section for instructions on how the interactions work from screen to screen.

The categories for the gallery needs to be dynamic. To meet this requirement, you will need to create a **Category management system** which the frontend will be sending requests to get required data **via an AJAX call**.

You will be using images from Flickr using the Flickr API to get the work you need to accomplish done. The Flickr API is well documented and you will have all the help you need within the documentation.

Your solution should work best with portrait mode phones, but at the same time, not look broken when viewing it in landscape.

TARGET DEVICES
Your target devices and browsers are:

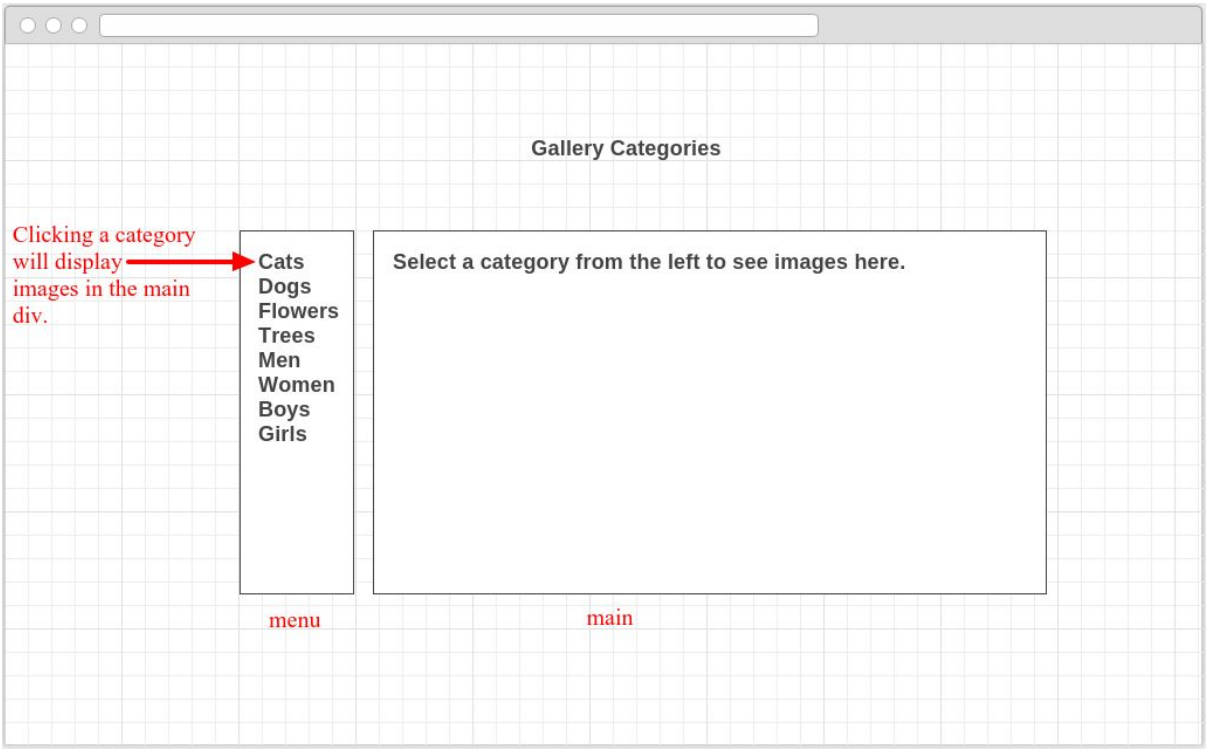
- IPhone X (with latest version browser).
- Google Pixel 3 (with latest version browser).
- Latest versions of Chrome, Internet Explorer and Firefox.

PART 2: SYMFONY 4 BACKEND / API
Create a password protected Category Management System:

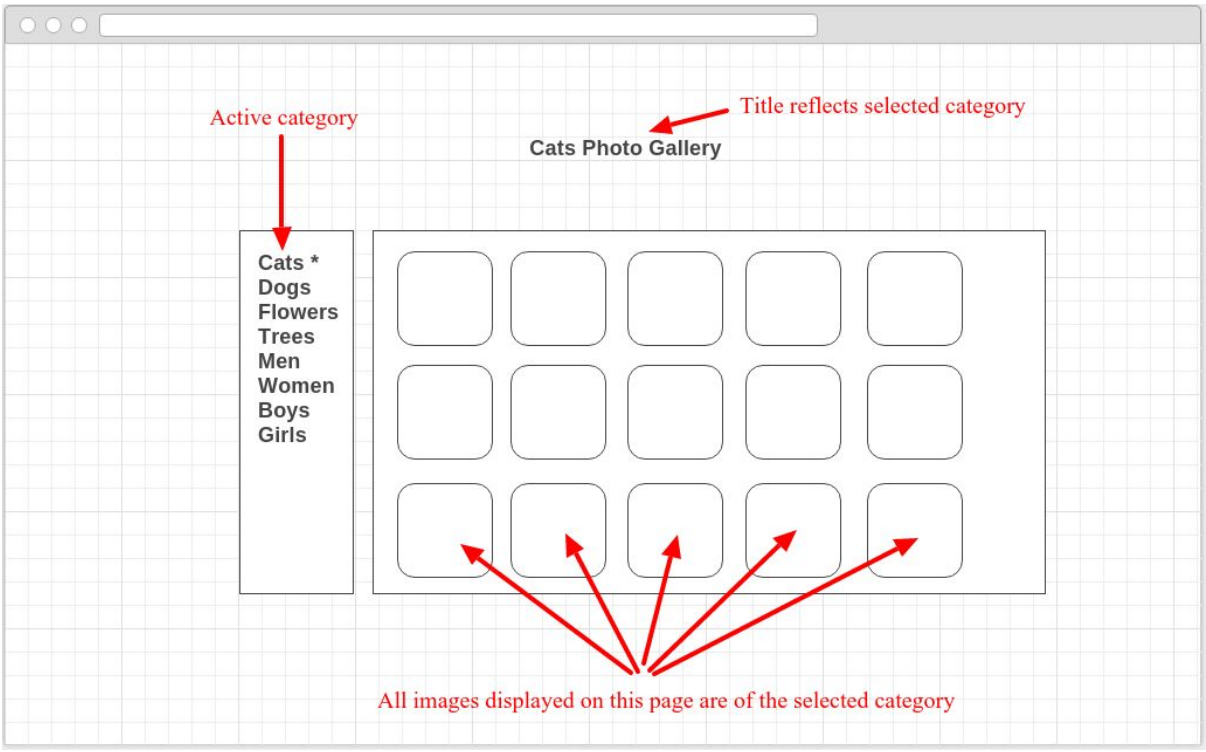
- Users need to login with the following credentials:
    - Username: adminuser@example.com
    - Password: Somepassword1234!
- Users can add a category.
- Users can update a category.
- Users can delete a category.
- Users can view a list of existing categories.
- The categories need to be displayed as navigation for the gallery.

The backend interface will be left up to you, but it has to look good and allow for easy management of categories.

WIREFRAMES



Initial Screen



Category Screen

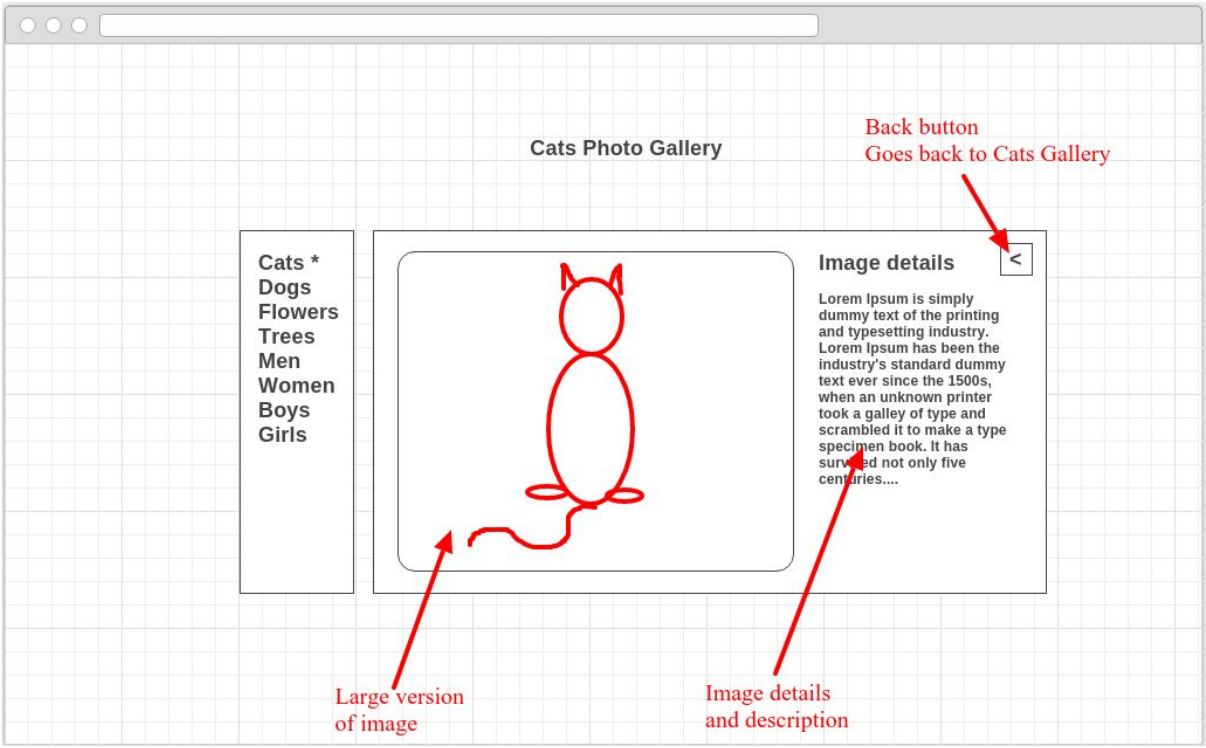


Image View Screen