Launch Darkly Project

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The first thing I tried was creating an SDK using Python. I confirmed through my terminal what version of Python I had and used the terminal to install Python Upgrade.

```
nkhashan@NKHASHAN-M-HPG2 ~ % python3 --version
Python 3.9.6
```

The next step was to follow the quickstart for creating a python3 SDK. I made a hello-python directory with the requirements.txt and the main.py.

```
nkhashan@NKHASHAN-M-HPG2 hello-python % ls
main.py requirements.txt
```

I added the code requested in the instructions to the main.py file I created.

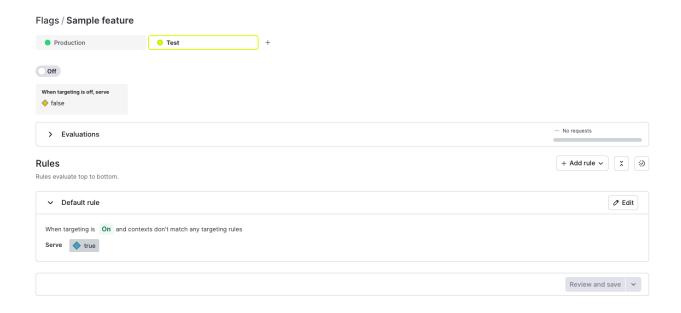
```
nkhashan@NKHASHAN-M-HPG2 hello-python % vi main.py
import os
import ldclient
from ldclient import Context
from ldclient.config import Config
from threading import Lock, Event
# Set sdk_key to your LaunchDarkly SDK key.
sdk_key = os.getenv("LAUNCHDARKLY_SDK_KEY")
# Set feature_flag_key to the feature flag key you want to evaluate.
feature_flag_key = "flag"
def show_evaluation_result(key: str, value: bool):
    print()
```

```
print(f"*** The {key} feature flag evaluates to {value}")
def show_banner():
  print()
  print("
  print("
  print("
  print("
            LAUNCHDARKLY "")
  print("
  print("
  print("
  print("
  print("
  print()
class FlagValueChangeListener:
  def __init__(self):
    self. show banner = True
    self.__lock = Lock()
  def flag_value_change_listener(self, flag_change):
    with self. lock:
      if self. show banner and flag change.new value:
         show_banner()
         self.__show_banner = False
      show evaluation result(flag change.key,
flag_change.new_value)
if __name__ == "__main__":
  if not sdk_key:
    print("*** Please set the LAUNCHDARKLY SDK KEY env first")
    exit()
  if not feature flag key:
    print("*** Please set the LAUNCHDARKLY_FLAG_KEY env first")
    exit()
  ldclient.set_config(Config(sdk_key))
  if not Idclient.get().is initialized():
    print("*** SDK failed to initialize. Please check your internet
connection and SDK credential for any typo.")
    exit()
```

```
print("*** SDK successfully initialized")
# Set up the evaluation context. This context should appear on your
# LaunchDarkly contexts dashboard soon after you run the demo.
context = \
```

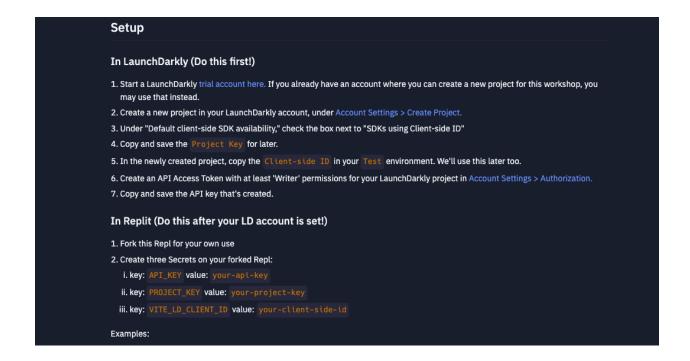
Once you run the script with the SDK key this is what you get.

LAUNCHDARKLY_SDK_KEY="sdk-3d2795da-b837-43cb-975b-af95377f89 71" python3 main.py



I wanted an application to show the functionality of the project. I watched a bunch of videos but the one I started paying attention to was Cody De Arkland. I noticed he had his demo application on a public site on Replit and I was told I could fork an application. I created a Replit account and I looked up the Launch

Darkly project. I followed the readme file. I had already started a Launch Darkly Trial Account.

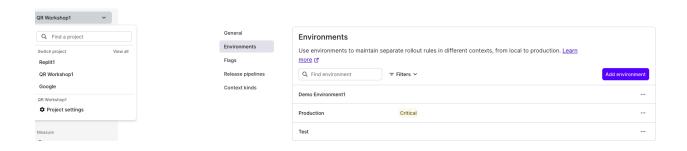


Forking the Application from Replit

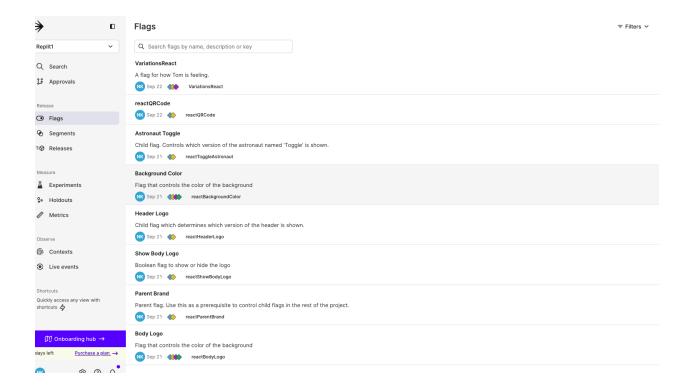
This was the first time I have ever done a fork from Replit. I have most of my past projects from Riverbed and AppDynamics in GitHub. I followed the instructions and used the Secret section to input the information needed to integrate with Launch Darkly.



Once I completed the Fork all the flags that were set up in the QRCode Application showed up in Launch Darkly under the project I created Replit-1. I was playing with the Launch Darkly a bit and I created a Project that I didn't end up using. The main project used for the assignment is Replit-1 just to reiterate. Google was a default and the QR Workshop is one I manually added.



The next screen shot will show the flags that were brought over from the Fork. One thing I wanted to note I manually created some Flags in other projects just to get an understanding of how to create Flags in the platform.



The next step was to perform the things mentioned in the project. I toggled the flags as requested. I used the QRCode to put the application on my mobile device and changed the colors. When I toggle the feature flag Header Logo on this is what I get.



When I toggle the feature off this is my result.







The next Feature Flag is the Show Body Logo. There should be a Skeletor Body Logo, I had to update the variation in the Body Logo to view Skeletor, otherwise, it would be a blank circle or blank depends on Variations chosen and Targeting.

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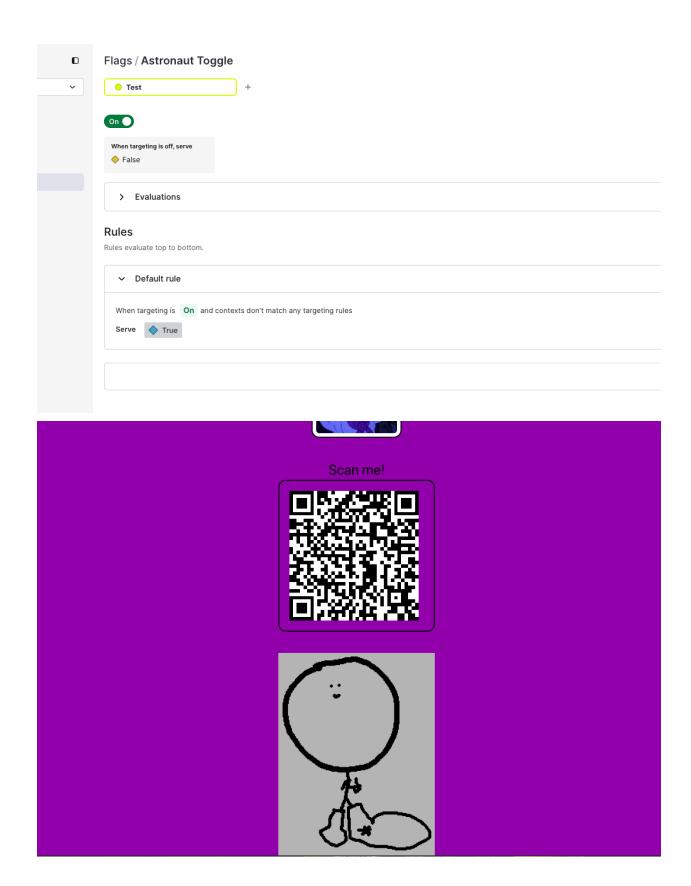


Scan me



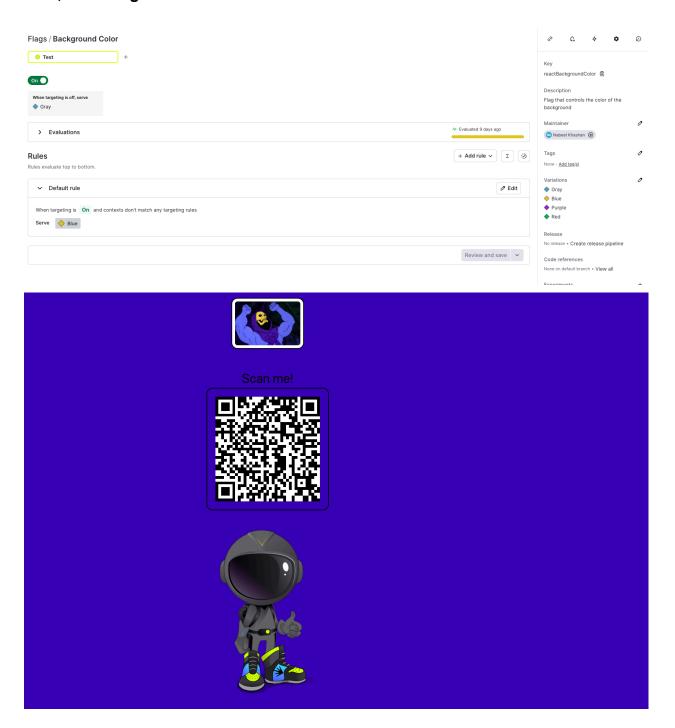
I was able to Toggle the image and use the Variations in the Body Logo to determine what is shown and you use Targeting to show users, Regions, or users using certain devices. Coming from a testing background this is all amazing to do in production or test. The next Toggle we are going to look at is the AstronautToggle.

We saw the Astronaut in the image above. Let's turn the Astronaut Toggle on for the new image.



This isn't very professional for a Logo so I will turn this Feature Flag off.

The next one I will show is the background Color. Let's see research finds Purple to be unappealing for marking purposes. Let's change the color with a feature flag. The Background Color had four options Grey, Blue, Purple, and Red. In this case, we changed it to Blue.

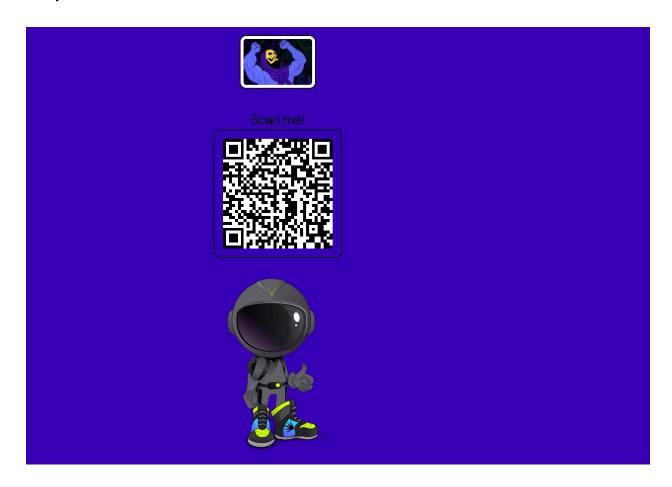


The QRCode required a bit of link manipulation. The original Link has this guy on it when you take a picture of your QRCode, singing his hit song from the 80's "Never Gonna Give You Up".



I changed the URL to Rick Astley to match the URL with the application I have been working on. Please see line 5 in the screenshot below shows the qrCode.jsx.

I was able to use my lphone to take a picture of the code and this appeared on my cell phone.



The updated code in Exercise 3 for the Partymode flag. Below is the code for the Partymode Excercise. I Toggle the flag on in the Client and I changed the code below. The let showFeature = true now not false. Notice the qrCode and the Skeletor logo are dancing. These meet the requirements in the exercise for flags, variations, and Targets. The last piece I did was the curl script to Toggle the Astronaut off after turning it on with the unwanted illustration.

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```
import { withLDConsumer } from "launchdarkly-react-client-sdk";
import 'animate.css';
const PartyMode = ({ ldClient, children }) => {
    let showFeature = true
```

The Curl script I wrote came from the Launch Darkly Documentation. I needed to install curl on my Mac using Homebrew. I used the project Key, the FeatureFlagKey, the environmentKey, and the API Key from my project to make this work. Unfortunately, I didn't get it to work exactly the way I wanted.

curl -i -X POST \

https://app.launchdarkly.com/api/v2/flags/replit-1/reactToggleAstronaut/triggers/test\

```
-H Authorization: api-b50970ef-ea5c-4852-9e8e-cd0204f264d5 \
-H Content-Type: application/json \
-d '{
    "comment": "Turn Flag Off",
    "instructions": [
    {
        "kind": "turnFlagOn"
    }
    ],
    "integrationKey": "generic-trigger"
}'
```

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