Write a Kubernetes (k8s) Controller to restart deployments

Problem

Often times there might be a need do a rolling restart of applications in k8s for complicance reasons (long running applications) or to retrigger a mutating webhook (used for sidecar injection for a Service Mesh). The task is to implement a k8s controller that does a rolling restart of deployments (basically kubectl rollout restart deploy <deployment-name>) only for the deployments that have a specific label (mesh: "true") at a configured interval.

The controller should take the following Input Parameters (can be accepted either over command line or read from a config map):

- Interval interval at which the matched deployments should be rotated (default is 10m)
- Namespaces list of namespaces (default all)

Goals

- Demo a working controller pointed at a local k8s cluster (use $\underline{\text{kind}}$ to create a cluster)
- Working Unit tests for the controller

Stretch Goals

- Build and publish the docker image and run the controller in a k8s cluster
- Add a CRD to manage matching criteria to restart deployments.

For example the below sample CR can result in restarts of deployments in namespace mesh having a label mesh: "true" every 12 hrs:

```
apiVersion: flipper.io/v1aplha1
kind: Flipper
metadata:
   name: service-mesh-flipper
   namespace: flipper
spec:
   interval: 12h
   match:
    labels:
       mesh: "true"
   namespace: "mesh"
```