DevOps Assignments

Gitops Approach to deploy mediawiki using gitlab and Argocd

CI/CD approach

Developer will push/merge code changes to source code repo: {SOURCE CODE REPO}

Once code is merged/pushed to repo, it will automatically trigger the gitlab CI using. gitlab.yaml :

Gitlab CI pipeline will execute following stages:

1. Checkout
2. Build
3. Build Docker image
4. Image Push to gitlab registery
5. Update image tag in deployment manifest repo : "Manifest repo"

Now ArgoCD poll this repo "Manifest repo" and if difference is detected between live k8s cluster manifest and gitlab repo {MANIFEST REPO}

Then ArgoCD will try to update k8s cluster with updated manifest present in git {MANIFEST REPO}.

Login to ArgoCD UI and Check app sync status

CI/CD flow will look like below using gitops (Image is taken from Internet )

Diagram

Description automatically generated