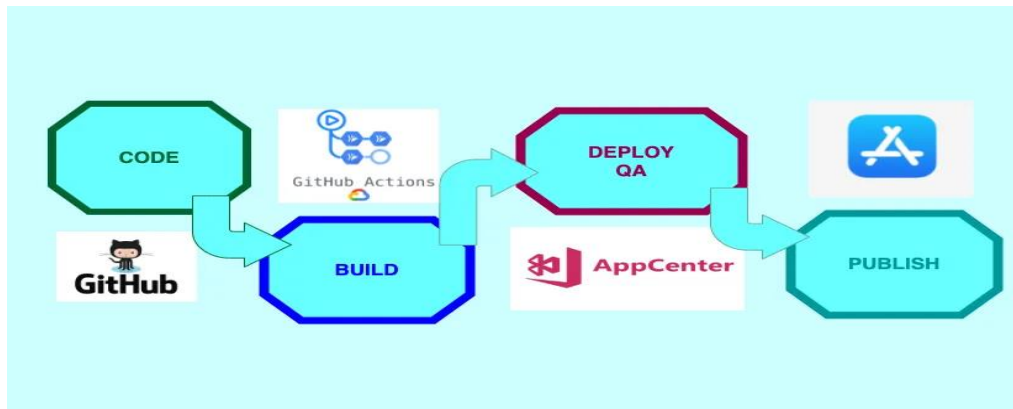Continuous – integration-Continuous pipeline using React, GitHub actions

✓ S3 using CloudFront, Code->Github

.github/workflows/build-and-deploy.yaml

```yaml
name: Build and Deploy React App to CloudFront
on:
  push:
    branches: [ master ]
jobs:
  build-and-deploy:
    name: Build and Deploy
    runs-on: ubuntu-latest
    env:
      BUCKET: <bucket-name>
      DIST: build
      REGION: us-east-1
      DIST_ID: <ID>
    steps:
    - name: Checkout
      uses: actions/checkout@v2
    - name: Configure AWS Credentials
      uses: aws-actions/configure-aws-credentials@v1
      with:
        aws-access-key-id: ${{ secrets.AWS_ACCESS_KEY_ID }}
        aws-secret-access-key: ${{ secrets.AWS_SECRET_ACCESS_KEY }}
        aws-region: ${{ env.REGION }}
  # - uses: actions/setup-node@v2
  #   with:
  #     node-version: '14
    - name: Install Dependencies
      run: |
        node --version
        npm ci --production

    - name: Build Static Website
      run: npm run build
    - name: Copy files to the production website with the AWS CLI
      run: |
        aws s3 sync --delete ${{ env.DIST }} s3://${{ env.BUCKET }}
    - name: Copy files to the production website with the AWS CLI
      run: |
        aws cloudfront create-invalidation \
          --distribution-id ${{ env.DIST_ID }} \
          --paths "/*"
```

✓ S3WebAccess
✓ Github-Actions

✓ Navigate to Github -> Amazon Web Services AWS_ACCESS_KEY AWS _ACCESS_KEY
✓ CI-CD

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CCD- 2023 March