



Beginner Exercise: Build a GitHub Actions Pipeline with Node.js and Heroku Deployment



Goal

Create a **GitHub Actions pipeline** based on the following requirements. This pipeline will include steps for setting up Node.js, installing dependencies, running tests, and deploying to Heroku.



Requirements

1. Trigger: Manual Workflow

- The pipeline must **only run manually** using the `workflow_dispatch` trigger.

2. Jobs and Steps

Job 1: Build and Test the Application

- Runs on `ubuntu-latest` .
- Step 1:** Check out the repository using `actions/checkout@v4` .
- Step 2:** Set up **Node.js version 18** using `actions/setup-node@v3` with the *parameter* `node-version: '18'` .
- Step 3:** Install dependencies using `yarn install` .
- Step 4:** Run tests using `yarn test` .

Job 2: Deploy to Heroku

- Runs on `ubuntu-latest` .
 - Step 1:** Check out the repository using `actions/checkout@v4` .
 - Step 2:** Deploy the application to Heroku using `akhilshns/heroku-deploy@v3.12.12` (you can treat it as an action when using GitHub Actions).
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Results:

- The first job should complete **successfully**.
 - The second job should run but **fail**, since no **authentication details** were provided.
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