**Practical Exercise 05 - Using Filters and Activity Types**

**Exercise Description**

**In this practical exercise, our goal is to explore the different ways we can use event filters and activity types to better target when workflows are run.**

We will create two workflows for this practical exercise. Here are the instructions for the exercise:

1. Creating our first workflow:
   1. Create a file named 05-1-filters-activity-types.yaml under the .github/workflows folder at the root of your repository.
   2. Name the workflow 05 - 1 - Event Filters and Activity Types.
   3. Add the following triggers with event filters and activity types to your workflow:
      1. pull\_request: use activity types to restrict the activities only to opened and synchronize. Additionally, use use event filters to restrict this workflow runs to be triggered only by changes to the main branch.
   4. Add a single job named echo to the workflow. The job should contain a single step, which simply prints the following message to the screen: Running whenever a PR is opened or synchronized AND base branch is main.
   5. Commit the changes and push the code.
   6. Edit the README.md file at the root of the repository with whatever changes you see fit, and commit the changes to a new branch named pr-test-1 (on the UI, this option is at the bottom of the window that appears when you want to save the changes).
   7. Create a pull request from pr-test-1 to the main branch and take a few moments to inspect the output of the triggered workflow run.
2. Creating our second workflow:
   1. Create a file named 05-2-filters-activity-types.yaml under the .github/workflows folder at the root of your repository.
   2. Name the workflow 05 - 2 - Event Filters and Activity Types.
   3. Add the following triggers with event filters and activity types to your workflow:
      1. pull\_request: use activity types to restrict the activities only to closed. Additionally, use use event filters to restrict this workflow runs to be triggered only by changes to the main branch.
   4. Add a single job named echo to the workflow. The job should contain a single step, which simply prints the following message to the screen: Running whenever a PR is closed.
   5. Commit the changes and push the code.
   6. Close the PR opened in step 1 of this practical exercise and take a few moments to inspect the output of the triggered workflow run.
3. Change the workflow triggers to contain only workflow\_dispatch to prevent this workflow from running with every push and pollute the list of workflow runs.