## КИИИ Лаб 5

# Classroom Assignments & Homework

# • Part 1: GitHub Actions

- Create a new repository on <u>GitHub</u>, then add the Dockerfile and the index.html files to it, from the exercise repository;
- Create one Action in the repo using the Super-Linter;
- Extend the Action to include a Docker image building and pushing to Docker Hub;

## Part 2: GitLab CI/CD

- Create a new repository on <u>GitLab</u>, and add the Dockerfile and the index.html files to it;
- Create one CI script which will build and push a Docker image to Docker Hub;

**26** 

GitHub Actions & GitLab CI/CD

#### PART 1: GITHUB ACTIONS

| Create a new repository  A repository contains all project files, including the revision history. Already have a project repository elsewhere?  Import a repository.  |
|---|
| Required fields are marked with an asterisk (*).  |
| Owner * Repository name *  BeratAhmetaj  KIII_Lab_Temporary  KIII_Lab_Temporary is available.   |
| Great repository names are short and memorable. Need inspiration? How about musical-winner?   |
| Description (optional)  |
|   |
| Private You choose who can see and commit to this repository.  Initialize this repository with:  Add a README file This is where you can write a long description for your project. Learn more about READMEs.  Add .gitignore |
| .gitignore template: None 🔻   |
| Choose which files not to track from a list of templates. <u>Learn more about ignoring files.</u>   |
| Choose a license  License: None   A license tells others what they can and can't do with your code. Learn more about licenses.  |
| ① You are creating a private repository in your personal account.   |
| Create repository   |

```
echo "# KIII_Lab_Temporary" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M master
git remote add origin https://github.com/BeratAhmetaj/KIII_Lab_Temporary.git
git push -u origin master
```

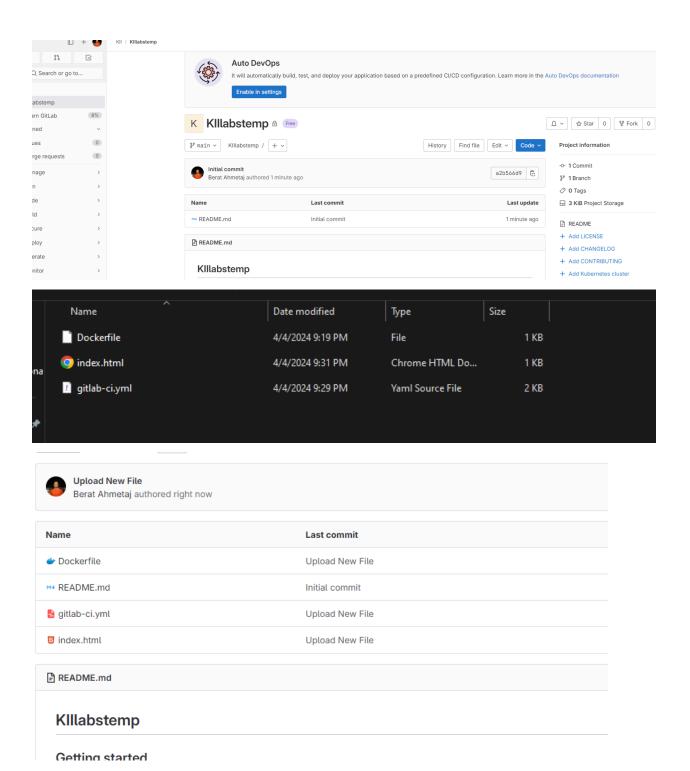
```
Name
                                           Date modified
                                                                   Type
igit.
                                                                   File folder
                                           4/4/2024 9:15 PM
github. 💳
                                           4/4/2024 9:21 PM
                                                                   File folder
Dockerfile
                                           4/4/2024 9:19 PM
                                                                   File
                                                                                               1 KB
index.html
                                           4/4/2024 9:17 PM
                                                                   Chrome HTML Do...
                                                                                               1 KB
```

```
! super-linter.yml •
C: > Users > berat > OneDrive > Documents > Github > KIII_Lab_Temporary > .github > workflows > ! super-linter.yml
       name: Super-Linter with Docker
           branches:
            - main
           branches:
           - main
         super-linter-docker:
           name: Lint code and Build Docker image
           runs-on: ubuntu-latest
            - name: Checkout code
              uses: actions/checkout@v2
             - name: Set up Super-Linter
               uses: github/super-linter@v4
                 github-token: ${{ secrets.GITHUB_TOKEN }}
                 commit-lint: "false"
                 python-lint: "false"
                 jsonlint: "false"
                 ansible-lint: "false"
             - name: Login to Docker Hub
               uses: docker/login-action@v1
                 username: ${{ secrets.DOCKER_USERNAME }}
                 password: ${{ secrets.DOCKER_PASSWORD }}
             - name: Build Docker image
             run: docker build -t yourdockerusername/repositoryname:latest .
             - name: Push Docker image to Docker Hub
               run: docker push yourdockerusername/repositoryname:latest
 40
```

|                    | Manage environment secrets |         |                       |   |    |
|--------------------|----------------------------|---------|-----------------------|---|----|
|                    |                            |         |                       |   |    |
| Repository secrets |                            | N       | New repository secret |   |    |
| Name =1            |                            | Last up | dated                 |   |    |
| △ DOCKER_PASSWORD  |                            |         | now                   | 0 | បិ |
| △ DOCKER_USERNAME  |                            | 1 minut | te ago                | 0 | û  |
|                    |                            |         |                       |   |    |

| Actions                  | New workflow |
|--------------------------|--------------|
| All workflows            |              |
| Workflows                |              |
| Super-Linter with Docker |              |
| Management               |              |
| Caches                   |              |
| ≅ Runners                |              |

PART 2: GITLAB



```
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          branches:
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          name: Lint code and Build Docker image
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            - name: Set up Super-Linter
              uses: github/super-linter@v4
                 github-token: ${{ secrets.GITHUB_TOKEN }}
                python-lint: "false"
                ruby-lint: "false"
                ansible-lint: "false"
            - name: Login to Docker Hub
              uses: docker/login-action@v1
                 username: ${{ secrets.DOCKER_USERNAME }}
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             - name: Build Docker image
             run: docker build -t yourdockerusername/repositoryname:latest .
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               run: docker push yourdockerusername/repositoryname:latest
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```



