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Data Migration - Final Round

Task 2

Set up the build html pipeline for SphinX repository using GitHub action.

Requirements

Write a GitHub action pipeline to build Doc as Code project as html format.

Evaluation

- [✓] GitHub action pipeline set up
- [✓] Html file got generated successfully

Experiment

1, Create file workflow documentation.yaml in .github/workflows with this content here.

```
name: Docs
on: [push, pull_request, workflow_dispatch]
permissions:
  contents: write
jobs:
 docs:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v3
      - uses: actions/setup-python@v3
      - name: Install dependencies
        run:
          pip install sphinx sphinx_rtd_theme sphinxcontrib-plantuml
sphinx_needs
      - name: Sphinx build
        run:
          sphinx-build docs _build
      - name: Deploy
        uses: peaceiris/actions-gh-pages@v3
        if: ${{ github.event_name == 'push' && github.ref ==
'refs/heads/main' }}
        with:
          publish_branch: gh-pages
          github_token: ${{ secrets.GITHUB_TOKEN }}
          publish_dir: _build/
          force_orphan: true
```

2, Turn on the Github pages

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- Go to the repository store source code. Go to Settings > Pages
- Select Deploy from a branch in Build and Development.

• Select gh-pages in Branch if it exists. Branch gh-pages needs time to create when running the Github Actions workflow.

Explain workflows

File documentation. yaml includes the rule for Github action. It will listen for action as push, pull-request to work the job.

- First, install the necessary dependencies package. It includes sphinx, sphix-needs, sphinxcontrib.plantuml to build as settings rule in docs/conf.py. It define in Install dependencies step
- Next, build the html resources by command line sphinx-build docs _build. It means it will build the html resources from docs directory to the _build directory. It define in Sphinx build step
- Finally, after build the html resources successfully. Pushing all content in the _build directory to branch gh-pages. It define in Deploy step

Github pages automatically look up the index.html file in the branch gh-pages. In base code html will render to web page