

Overall requirement:

We have already implemented almost main activity of the migration steps.

It is the time to complete the last task and integrate all these steps to seamless workflow using airflow.

Task 1: Update new entry of new file to index.rst (will be provided) if the entry does not existing.

Input: The index.rst file in GitHub and the file path of new requirement file (ECU_Requirement.rst).

Output: the index.rst file is got updated and push to GitHub.

Requirement: Write a java/python command line application to get the index.rst content and adding new entry for new requirement if the entry is not existed.

Task 2: set up the build html pipeline for Sphinx repository using GitHub action.

Input: the GitHub repository which contain the Doc as Code project set up.

Output: the CI pipeline got executed when we have any new pushed commit to GitHub and the html of whole Doc as Code folder got generated.

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

The repository will be provided

Task 3: Integrate all the scripts from reading ReqIf file till push all the content to GitHub as seamless workflow.

Input: all the python scripts including below scripts:

1. Read ReqIf file
2. Read mapping config and generate mapped JSON
3. Convert JSON format to RST format and write it to file
4. Upload RST file to GitHub
5. Read, update index.rst file and push updated index.rst file to GitHub

Output: the seamless workflow in Airflow contains all input python scripts.

User can trigger the migration flow via Airflow.

Requirement:

- Set up Airflow system
- Write each python steps as Airflow DAG task
- Write a workflow to integrate all of them together
- Send all the required configuration and DAG tasks source code

Evaluation

- Task 1: 15
 - Read index.rst: 5
 - Update index.rst: 5
 - Push to GitHub: 5
- Task 2: 35
 - GitHub action pipeline set up: 15
 - Html file got generated successfully: 20
- Task 3: 50
 - Airflow set up: 10
 - Write all the python scripts as tasks (5 scripts): 25
 - Integrate all the tasks: 15