## High Level OEC Synchronizer System Design

## Data Fetcher

- Download CSV files from monitored sites
- Parse CSV files content into separate rows for further action

Update checker using the output of data fetcher to get the last updated field

## **Update Checker**

- Uses the last updated time field to check if item was updated
- Finds OEC equivalent of the updated item
- If equivalent is not found then takes the data as newly added item
- Either case XML of the data is created

**XML** Creator

- Ensure the the value have same SI unit as OEC
- If not then carry out conversion
- Ensure name alias and Human error is handle
- Lastly create XML file using the data

Creator and OEC XML and pass

Comparison

Takes file generated from XML

Comparison

Analyzer

- Compare the two XML file (one from OEC and other as output of XML Creator)
- Find the field(s) that was changed

XML file of newly added item It directly added to the branch without going through analyzer

## Git Action

- Create new branch
- Commits the updates/newly items
- Create a pull request to notify the user
- Make sure the pull request are created on system by system basis

Git Action gets the changes to Commit from Analyzer