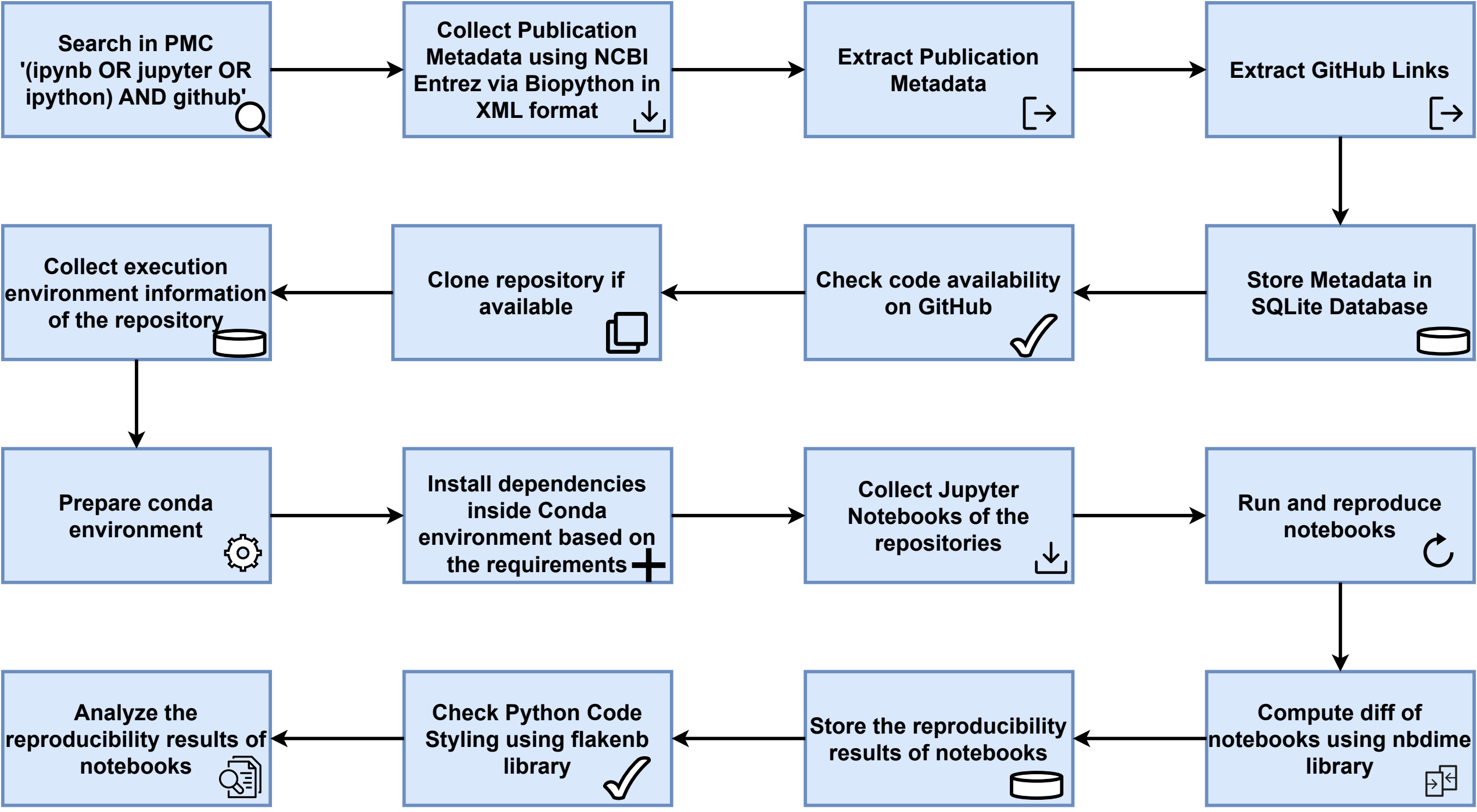
Search in PMC '(ipynb OR jupyter OR ipython) AND github'
Collect Publication Metadata using NCBI Entrez via Biopython in XML format
Extract Publication Metadata
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Store Metadata in SQLite Database
Check code availability on GitHub
Clone repository if available
Collect execution environment information of the repository
Prepare conda environment
Install dependencies inside Conda environment based on the requirements
Collect Jupyter Notebooks of the repositories
Run and reproduce notebooks
Compute diff of notebooks using nbdime library
Store the reproducibility results of notebooks
Check Python Code Styling using flakenb library
Analyze the reproducibility results of notebooks