

Test Design and Test data

1. Test Plan

1.1 Objective: Ensure that the `PublicationRetrieval` service correctly retrieves research publication data from Google Scholar and OpenAlex APIs.

1.2 Scope:

- Fetching researcher details from Google Scholar
- Fetching publication details from Google Scholar and OpenAlex
- Ensuring API connectivity and correct data retrieval
- Handling missing or incomplete API responses

2. Test Cases

Test ID	Test Case Description	Precondition	Expected Result
TC_001	Fetch Author Details from Google Scholar	Google Scholar API must be available	API returns a valid author name, citations, and publication list
TC_002	Fetch Publication Data from Google Scholar & OpenAlex	OpenAlex and Google Scholar APIs must be available	API returns correct publication title, DOI, and source title
TC_003	Fetch Publication Data from OpenAlex API	OpenAlex API must be available	API returns correct publication title, DOI, and source title
TC_004	Fetch Publication Data from Google Scholar	Google Scholar API must be available	API returns correct paper URL and source title

Test Data

paramiter	value	description
scholarId	cYJ4r_BHQR8C	ใช้สำหรับทดสอบการดึง ข้อมูลนักวิจัยจาก Google Scholar
paperName	Science and technology for water purification	ใช้สำหรับทดสอบการดึง ข้อมูลบทความจาก Google Scholar และ OpenAlex
searchTitle	AI in Healthcare	ใช้สำหรับทดสอบการดึง ข้อมูลบทความจาก OpenAlex
scholarUrl	https://scholar.google.com/citations?view_op=view_citation&hl=en	ใช้สำหรับทดสอบการดึง ข้อมูลบทความจาก Google Scholar