# PubMed Research Paper Fetcher

## Project Structure

```
pubmed_fetcher/
??? src/
?   ??? pubmed_fetcher/
?   ?   ??? __init__.py
?   ?   ??? fetch_pubmed_papers.py  # Main logic for fetching & filtering papers
?   ?   ??? cli.py                  # Command-line interface (CLI)
??? tests/
?   ??? test_api.py                 # Test cases for API & filtering
??? poetry.lock                     # Locked dependencies for consistency
??? pyproject.toml                  # Poetry configuration file
??? README.md                       # Project documentation
```

## Installation & Usage

```
1. Clone the repository:
   git clone https://github.com/yourusername/pubmed_fetcher.git
   cd pubmed_fetcher


2. Install dependencies using Poetry:
   poetry install


3. Run the program:
   poetry run get-papers-list "cancer research" -f output.csv


4. Run tests:
   poetry run pytest
```

## Tools & Libraries Used

- Python 3.12 - Programming language.
- Poetry - Dependency management.
- Requests - Fetching data from PubMed API.
- CSV & JSON - Data storage and processing.
- Pytest - Unit testing.
- Git & GitHub - Version control.
- FPDF - PDF generation (for documentation purposes).