```
Directory structure:
  — cyclotruc-gitingest/
      – README.md
       - CODE OF CONDUCT.md
       - CONTRIBUTING.md
      Dockerfile
       - LICENSE
       - SECURITY.md
      — pyproject.toml
     — requirements-dev.txt
      - requirements.txt
     — setup py
      dockerignore
      - .pre-commit-config.yaml
     — docs/
      - src/
            gitingest/
               - __init__.py
               - cli.py
               - config.py
               - exceptions.py
               - ignore_patterns.py
               - notebook_utils.py
               - query_ingestion.py
              — query_parser.py
              — repository_clone.py
               - repository_ingest.py
              — utils.py
            server/
               __init__.py
               - main.py
               - query_processor.py
               - server_config.py
               - server_utils.py
                routers/
                    __init__.py
                   download.py
                   - dynamic.py
                   – index.py
                templates/
                   - api.jinja
                   - base.jinja
                   - git.jinja
                   - index.jinja
                    components/
                       — footer.jinja
                       – git_form.jinja
                       - navbar.jinja
                      — result.jinja
            static/
                robots.txt
                js/
                   - utils.js
       - tests/
```

```
_init__.py
           conftest.py
            test cli.py
            test flow integration.py
            test notebook utils.py
            test_query_ingestion.py
            test_repository_clone.py
            .pylintrc
            query_parser/

    test git host agnostic.py

              - test_query_parser.py
        .github/
          dependabot.yml
            workflows/
              – ci.yml
              publish.yml
File: README.md
# Gitingest
[![Image](./docs/frontpage.png "Gitingest main page")](https://
qitingest.com)
[![License](https://img.shields.io/badge/license-MIT-blue.svg)]
(https://github.com/cyclotruc/gitingest/blob/main/LICENSE)
[![PyPI version](https://badge.fury.io/py/gitingest.svg)](https://
badge.fury.io/py/gitingest)
[![GitHub stars](https://img.shields.io/github/stars/cyclotruc/
gitingest?style=social.svg)](https://github.com/cyclotruc/gitingest)
[![Downloads](https://pepy.tech/badge/gitingest)](https://pepy.tech/
project/gitingest)
[![Discord](https://dcbadge.limes.pink/api/server/https://
discord.com/invite/zerRaGK9EC)](https://discord.com/invite/
zerRaGK9EC)
Turn any Git repository into a prompt-friendly text ingest for LLMs.
You can also replace `hub` with `ingest` in any GitHub URL to access
the coresponding digest.
[gitingest.com](https://gitingest.com) · [Chrome Extension](https://
chromewebstore.google.com/detail/adfjahbijlkjfoicpjkhjicpjpjfaood)
[Firefox Add-on](https://addons.mozilla.org/firefox/addon/gitingest)
## 🚀 Features
- **Easy code context**: Get a text digest from a Git repository URL
or a directory
- **Smart Formatting**: Optimized output format for LLM prompts
- **Statistics about**:
```

File and directory structure

```
- Size of the extract

    Token count

- **CLI tool**: Run it as a shell command
- **Python package**: Import it in your code
## 嶐 Requirements
- Python 3.7+
## 📦 Installation
``` bash
pip install gitingest
🧬 Browser Extension Usage
<!-- markdownlint-disable MD033 -->

<a href="https://chromewebs
adfjahbijlkjfoicpjkhjicpjpjfaood" target="_blank" title="Get
Gitingest Extension from Chrome Web Store"><img height="48"
src="https://github.com/user-attachments/assets/20a6e44b-
fd46-4e6c-8ea6-aad436035753" alt="Available in the Chrome Web
Store" />
<a href="https://addons.mozilla.org/firefox/addon/gitingest"</pre>
target="_blank" title="Get Gitingest Extension from Firefox Add-
ons"><img height="48" src="https://github.com/user-attachments/
assets/c0e99e6b-97cf-4af2-9737-099db7d3538b" alt="Get The Add-on for
Firefox" />
<a href="https://microsoftedge.microsoft.com/addons/detail/")</pre>
nfobhllgcekbmpifkjlopfdfdmljmipf" target="_blank" title="Get
Gitingest Extension from Firefox Add-ons"><img height="48"
src="https://github.com/user-attachments/assets/204157eb-4cae-4c0e-
b2cb-db514419fd9e" alt="Get from the Edge Add-ons" />
<!-- markdownlint-enable MD033 -->
The extension is open source at [lcandy2/gitingest-extension]
(https://github.com/lcandy2/gitingest-extension).
Issues and feature requests are welcome to the repo.
P Command line usage
The `qitingest` command line tool allows you to analyze codebases
and create a text dump of their contents.
```bash
# Basic usage
gitingest /path/to/directory
# From URL
gitingest https://github.com/cyclotruc/gitingest
```

See more options

```
gitingest --help
This will write the digest in a text file (default `digest.txt`) in
your current working directory.
## 💪 Python package usage
```python
Synchronous usage
from gitingest import ingest
summary, tree, content = ingest("path/to/directory")
or from URL
summary, tree, content = ingest("https://github.com/cyclotruc/
gitingest")
By default, this won't write a file but can be enabled with the
`output` argument.
```python
# Asynchronous usage
from gitingest import ingest_async
import asyncio
result = asyncio.run(ingest_async("path/to/directory"))
### Jupyter notebook usage
```python
from gitingest import ingest_async
Use await directly in Jupyter
summary, tree, content = await ingest_async("path/to/directory")
. . .
This is because Jupyter notebooks are asynchronous by default.
🍑 Self-host
1. Build the image:
   ``` bash
   docker build -t gitingest .
2. Run the container:
   ``` bash
 docker run -d --name gitingest -p 8000:8000 gitingest
```

. . .

The application will be available at `http://localhost:8000`.

If you are hosting it on a domain, you can specify the allowed hostnames via env variable `ALLOWED\_HOSTS`.

```bash
Default: "gitingest.com, *.gitingest.com, localhost,
127.0.0.1".
ALLOWED_HOSTS="example.com, localhost, 127.0.0.1"

🤝 Contributing

Non-technical ways to contribute

- **Create an Issue**: If you find a bug or have an idea for a new feature, please [create an issue](https://github.com/cyclotruc/ gitingest/issues/new) on GitHub. This will help us track and prioritize your request.
- **Spread the Word**: If you like Gitingest, please share it with your friends, colleagues, and on social media. This will help us grow the community and make Gitingest even better.
- **Use Gitingest**: The best feedback comes from real-world usage!
 If you encounter any issues or have ideas for improvement, please
 let us know by [creating an issue](https://github.com/cyclotruc/
 gitingest/issues/new) on GitHub or by reaching out to us on
 [Discord](https://discord.com/invite/zerRaGK9EC).

Technical ways to contribute

Gitingest aims to be friendly for first time contributors, with a simple python and html codebase. If you need any help while working with the code, reach out to us on [Discord](https://discord.com/invite/zerRaGK9EC). For detailed instructions on how to make a pull request, see [CONTRIBUTING.md](./CONTRIBUTING.md).

🛠 Stack

- [Tailwind CSS](https://tailwindcss.com) Frontend
- [FastAPI](https://github.com/fastapi/fastapi) Backend framework
- [Jinja2](https://jinja.palletsprojects.com) HTML templating
- [tiktoken](https://github.com/openai/tiktoken) Token estimation
- [posthog](https://github.com/PostHog/posthog) Amazing analytics

Looking for a JavaScript/Node package?

Check out the NPM alternative Pepomix: https://github.com/yamadashy/repomix

🚀 Project Growth

[![Star History Chart](https://api.star-history.com/svg?

repos=cyclotruc/gitingest&type=Date)](https://star-history.com/
#cyclotruc/gitingest&Date)

File: CODE_OF_CONDUCT.md

Contributor Covenant Code of Conduct

Our Pledge

We as members, contributors, and leaders pledge to make participation in our

community a harassment-free experience for everyone, regardless of age, body

size, visible or invisible disability, ethnicity, sex characteristics, gender

identity and expression, level of experience, education, socioeconomic status,

nationality, personal appearance, race, religion, or sexual identity and orientation.

We pledge to act and interact in ways that contribute to an open, welcoming,

diverse, inclusive, and healthy community.

Our Standards

Examples of behavior that contributes to a positive environment for our

community include:

- * Demonstrating empathy and kindness toward other people
- * Being respectful of differing opinions, viewpoints, and experiences
- * Giving and gracefully accepting constructive feedback
- * Accepting responsibility and apologizing to those affected by our mistakes,

and learning from the experience

st Focusing on what is best not just for us as individuals, but for the

overall community

Examples of unacceptable behavior include:

- * The use of sexualized language or imagery, and sexual attention or advances of any kind
- * Trolling, insulting or derogatory comments, and personal or political attacks
- * Public or private harassment
- * Publishing others' private information, such as a physical or email

address, without their explicit permission

* Other conduct which could reasonably be considered inappropriate

in a
 professional setting

Enforcement Responsibilities

Community leaders are responsible for clarifying and enforcing our standards of

acceptable behavior and will take appropriate and fair corrective action in

response to any behavior that they deem inappropriate, threatening, offensive, or harmful.

Community leaders have the right and responsibility to remove, edit, or reject

comments, commits, code, wiki edits, issues, and other contributions that are

not aligned to this Code of Conduct, and will communicate reasons for moderation $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$

decisions when appropriate.

Scope

This Code of Conduct applies within all community spaces, and also applies when

an individual is officially representing the community in public spaces.

Examples of representing our community include using an official email address,

posting via an official social media account, or acting as an appointed

representative at an online or offline event.

Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be

reported to the community leaders responsible for enforcement at <romain@coderamp.io>.

All complaints will be reviewed and investigated promptly and fairly.

All community leaders are obligated to respect the privacy and security of the reporter of any incident.

Enforcement Guidelines

Community leaders will follow these Community Impact Guidelines in determining

the consequences for any action they deem in violation of this Code of Conduct:

1. Correction

Community Impact: Use of inappropriate language or other behavior deemed

unprofessional or unwelcome in the community.

Consequence: A private, written warning from community leaders,

clarity around the nature of the violation and an explanation of why

behavior was inappropriate. A public apology may be requested.

2. Warning

Community Impact: A violation through a single incident or series of actions.

Consequence: A warning with consequences for continued behavior.

interaction with the people involved, including unsolicited interaction with

those enforcing the Code of Conduct, for a specified period of time. This

includes avoiding interactions in community spaces as well as external channels

like social media. Violating these terms may lead to a temporary or permanent ban.

3. Temporary Ban

Community Impact: A serious violation of community standards, including sustained inappropriate behavior.

Consequence: A temporary ban from any sort of interaction or public

communication with the community for a specified period of time. No public or

private interaction with the people involved, including unsolicited interaction

with those enforcing the Code of Conduct, is allowed during this

Violating these terms may lead to a permanent ban.

4. Permanent Ban

Community Impact: Demonstrating a pattern of violation of community

standards, including sustained inappropriate behavior, harassment

individual, or aggression toward or disparagement of classes of individuals.

Consequence: A permanent ban from any sort of public interaction

within the community.

Attribution

This Code of Conduct is adapted from the [Contributor Covenant] (https://www.contributor-covenant.org), version 2.0, available at https://www.contributor-covenant.org/version/2/0/code of conduct.html>.

Community Impact Guidelines were inspired by [Mozilla's code of conduct enforcement ladder](https://github.com/mozilla/diversity).

For answers to common questions about this code of conduct, see the ${\sf FAQ}$ at

<https://www.contributor-covenant.org/faq>. Translations are
available at

<https://www.contributor-covenant.org/translations>.

File: CONTRIBUTING.md

Contributing to Gitingest

Thanks for your interest in contributing to Gitingest! A Gitingest aims to be friendly for first time contributors, with a simple python and html codebase. We would love your help to make it even better. If you need any help while working with the code, please reach out to us on [Discord](https://discord.com/invite/zerRaGK9EC).

How to Contribute (non-technical)

- **Create an Issue**: If you find a bug or have an idea for a new feature, please [create an issue](https://github.com/cyclotruc/ gitingest/issues/new) on GitHub. This will help us track and prioritize your request.
- **Spread the Word**: If you like Gitingest, please share it with your friends, colleagues, and on social media. This will help us grow the community and make Gitingest even better.
- **Use Gitingest**: The best feedback comes from real-world usage!
 If you encounter any issues or have ideas for improvement, please
 let us know by [creating an issue](https://github.com/cyclotruc/
 gitingest/issues/new) on GitHub or by reaching out to us on
 [Discord](https://discord.com/invite/zerRaGK9EC).

How to submit a Pull Request

- 1. Fork the repository.
- 2. Clone the forked repository:

```
```bash
git clone https://github.com/cyclotruc/gitingest.git
cd gitingest
```

3. Set up the development environment and install dependencies:

```
```bash
python -m venv .venv
source .venv/bin/activate
pip install -r requirements-dev.txt
pre-commit install
```

4. Create a new branch for your changes:

```
```bash
git checkout -b your-branch
```

- 5. Make your changes. Make sure to add corresponding tests for your changes.
- 6. Stage your changes:

```
```bash
git add .
```

7. Run the tests:

```
```bash
pytest
```

- 8. Navigate to src folder
  - 1. Build the Docker image

```
``` bash
cd src
```

2. Run the local web server:

```
``` bash
uvicorn server.main:app
```

- 3. Open your browser and navigate to `http://localhost:8000` to see the app running.
- 9. Confirm that everything is working as expected. If you encounter any issues, fix them and repeat steps 6 to 8.

```
10. Commit your changes:
    ```bash
    git commit -m "Your commit message"
   If `pre-commit` raises any issues, fix them and repeat steps 6
to 9.
11. Push your changes:
    ```bash
 git push origin your-branch
12. Open a pull request on GitHub. Make sure to include a detailed
description of your changes.
13. Wait for the maintainers to review your pull request. If there
are any issues, fix them and repeat steps 6 to 12.
 *(Optional) Invite project maintainer to your branch for easier
collaboration.*

File: Dockerfile

Build stage
FROM python:3.12-slim AS builder
WORKDIR /build
Copy requirements first to leverage Docker cache
COPY requirements.txt.
Install build dependencies and Python packages
RUN apt-get update \
 && apt-get install -y --no-install-recommends gcc python3-dev \
 && pip install --no-cache-dir --upgrade pip \
 && pip install --no-cache-dir --timeout 1000 -r requirements.txt
\
 && rm -rf /var/lib/apt/lists/*
Runtime stage
FROM python:3.12-slim
Set Python environment variables
ENV PYTHONUNBUFFERED=1
ENV PYTHONDONTWRITEBYTECODE=1
```

# Install Git

RUN apt-get update \

```
&& apt-get install -y --no-install-recommends git curl\ && rm -rf /var/lib/apt/lists/*
```

## WORKDIR /app

# Create a non-root user
RUN useradd -m -u 1000 appuser

COPY --from=builder /usr/local/lib/python3.12/site-packages/ /usr/
local/lib/python3.12/site-packages/
COPY src/ ./

# Change ownership of the application files
RUN chown -R appuser:appuser /app

# Switch to non-root user USER appuser

**EXPOSE 8000** 

CMD ["python", "-m", "uvicorn", "server.main:app", "--host", "0.0.0.0", "--port", "8000"]

\_\_\_\_\_\_

File: LICENSE

\_\_\_\_\_

MIT License

Copyright (c) 2024 Romain Courtois

Permission is hereby granted, free of charge, to any person obtaining a copy

of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all

copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR

OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## Reporting a Vulnerability

If you have discovered a vulnerability inside the project, report it privately at <romain@coderamp.io>. This way the maintainer can work on a proper fix without disclosing the problem to the public before it has been solved.

```

File: pyproject.toml
[project]
name = "gitingest"
version = 0.1.3
description="CLI tool to analyze and create text dumps of codebases
for LLMs"
readme = {file = "README.md", content-type = "text/markdown" }
requires-python = ">= 3.8"
dependencies = [
 "click>=8.0.0",
 "tiktoken",
 "typing extensions; python version < '3.10'",
1
license = {file = "LICENSE"}
authors = [{name = "Romain Courtois", email = "romain@coderamp.io"}]
classifiers=[
 "Development Status :: 3 - Alpha",
 "Intended Audience :: Developers",
 "License :: OSI Approved :: MIT License",
 "Programming Language :: Python :: 3.7",
 "Programming Language :: Python :: 3.8"
 "Programming Language :: Python :: 3.9"
 "Programming Language :: Python :: 3.10",
 "Programming Language :: Python :: 3.11"
 "Programming Language :: Python :: 3.12"
 "Programming Language :: Python :: 3.13"
1
[project.scripts]
gitingest = "gitingest.cli:main"
```

```
[project.urls]
homepage = "https://gitingest.com"
qithub = "https://github.com/cyclotruc/gitingest"
[build-system]
requires = ["setuptools>=61.0", "wheel"]
build-backend = "setuptools.build_meta"
[tool.setuptools]
packages = {find = {where = ["src"]}}
include-package-data = true
Linting configuration
[tool.pylint.format]
max-line-length = 119
[tool.pylint.'MESSAGES CONTROL']
disable = [
 "too-many-arguments",
 "too-many-positional-arguments",
 "too-many-locals",
 "too-few-public-methods",
 "broad-exception-caught",
 "duplicate-code",
]
[tool.pycln]
all = true
[tool.isort]
profile = "black"
line_length = 119
remove_redundant_aliases = true
float_to_top = true
order_by_type = true
filter_files = true
[tool.black]
line-length = 119
Test configuration
[tool.pytest.ini_options]
pythonpath = ["src"]
testpaths = ["tests/"]
python_files = "test_*.py"
asyncio mode = "auto"
python classes = "Test*"
python_functions = "test_*"

```

File: requirements-dev.txt

\_\_\_\_\_\_

```
-r requirements.txt
black
djlint
pre-commit
pylint
pytest
pytest-asyncio

File: requirements.txt

click>=8.0.0
fastapi[standard]
python-dotenv
slowapi
starlette
tiktoken
uvicorn
File: setup.py

from pathlib import Path
from setuptools import find_packages, setup
this directory = Path(file).parent
long_description = (this_directory /
"README.md").read_text(encoding="utf-8")
setup(
 name="gitingest",
 version="0.1.3",
 packages=find_packages(where="src"),
 package_dir={"": "src"},
 include_package_data=True,
 install_requires=[
 "click>=8.0.0",
 "tiktoken",
 "typing extensions; python version < '3.10'",
],
 entry_points={
 "console_scripts": [
 "gitingest=gitingest.cli:main",
],
 },
 python_requires=">=3.7";
 author="Romain Courtois",
 author_email="romain@coderamp.io",
 description="CLI tool to analyze and create text dumps of
codebases for LLMs",
 long description=long description,
```

```
long_description_content_type="text/markdown",
 url="https://github.com/cyclotruc/gitingest",
 classifiers=[
 "Development Status :: 3 - Alpha",
 "Intended Audience :: Developers",
 "License :: OSI Approved :: MIT License",
 "Programming Language :: Python :: 3",
],
)

File: .dockerignore

Git
.qit
.gitignore
Python
__pycache__
*.pyc
*.py0
*.pyd
.Python
env
pip-log.txt
pip-delete-this-directory.txt
.tox
.coverage
.coverage.*
cache
nosetests.xml
coverage.xml
*.cover
*.log
Virtual environment
venv
.env
.venv
ENV
IDE
.idea
.vscode
*.SWD
*.SW0
Project specific
docs/
tests/
*.md
LICENSE
setup.py
```

```
File: .pre-commit-config.yaml
repos:
 - repo: https://github.com/pre-commit/pre-commit-hooks
 rev: v5.0.0
 hooks:
 # Files
 - id: check-added-large-files
 description: "Prevent large files from being committed."
 args: ["--maxkb=10000"]
 - id: check-case-conflict
 description: "Check for files that would conflict in case-
insensitive filesystems."
 - id: fix-byte-order-marker
 description: "Remove utf-8 byte order marker."
 - id: mixed-line-ending
 description: "Replace mixed line ending."
 # Links
 - id: destroyed-symlinks
 description: "Detect symlinks which are changed to regular
files with a content of a path which that symlink was pointing to."
 # File files for parseable syntax: python
 - id: check-ast
 # File and line endings
 - id: end-of-file-fixer
 description: "Ensure that a file is either empty, or ends
with one newline."
 - id: trailing-whitespace
 description: "Trim trailing whitespace."
 # Python
 - id: check-docstring-first
 description: "Check a common error of defining a docstring
after code."
 - id: requirements-txt-fixer
 description: "Sort entries in requirements.txt."
 - repo: https://github.com/MarcoGorelli/absolufy-imports
 rev: v0.3.1
 hooks:
 - id: absolufy-imports
 description: "Automatically convert relative imports to
absolute. (Use `args: [--never]` to revert.)"
 - repo: https://github.com/psf/black
 rev: 24.10.0
 hooks:
 - id: black
```

\_\_\_\_\_

```
- repo: https://github.com/asottile/pyupgrade
 rev: v3.19.1
 hooks:
 - id: pyupgrade
 description: "Automatically upgrade syntax for newer
versions."
 args: [--py3-plus, --py36-plus]
 - repo: https://github.com/pre-commit/pygrep-hooks
 rev: v1.10.0
 hooks:
 - id: python-check-blanket-noqa
 description: "Enforce that `noqa` annotations always occur
with specific codes. Sample annotations: `# noqa: F401`, `# noqa:
F401,W203\."
 - id: python-check-blanket-type-ignore
 description: "Enforce that `# type: ignore` annotations
always occur with specific codes. Sample annotations: `# type:
ignore[attr-defined]`, `# type: ignore[attr-defined, name-
defined]`."
 - id: python-use-type-annotations
 description: "Enforce that python3.6+ type annotations are
used instead of type comments."
 - repo: https://github.com/PyCQA/isort
 rev: 5.13.2
 hooks:
 - id: isort
 description: "Sort imports alphabetically, and automatically
separated into sections and by type."
 - repo: https://github.com/djlint/djLint
 rev: v1.36.4
 hooks:
 - id: djlint-reformat-jinja
 - repo: https://github.com/igorshubovych/markdownlint-cli
 rev: v0.43.0
 hooks:
 - id: markdownlint
 description: "Lint markdown files."
 args: ["--disable=line-length"]
 - repo: https://github.com/terrencepreilly/darglint
 rev: v1.8.1
 hooks:
 - id: darglint
 name: darglint for source
 args: [--docstring-style=numpy]
 files: ^src/
 - repo: https://github.com/pycga/pylint
```

```
rev: v3.3.3
 hooks:
 - id: pylint
 name: pylint for source
 files: ^src/
 additional_dependencies:
 ſ
 click,
 fastapi-analytics,
 pytest-asyncio,
 python-dotenv,
 slowapi,
 starlette,
 tiktoken,
 uvicorn,
]
 - id: pylint
 name: pylint for tests
 files: ^tests/
 args:
 - --rcfile=tests/.pylintrc
 additional_dependencies:
 [
 click,
 fastapi-analytics,
 pytest,
 pytest-asyncio,
 python-dotenv,
 slowapi,
 starlette,
 tiktoken,
 uvicorn,
]
 - repo: meta
 hooks:
 id: check-hooks-apply
 - id: check-useless-excludes

File: src/gitingest/__init__.py

""" Gitingest: A package for ingesting data from Git repositories.
from gitingest.query_ingestion import run_ingest_query
from gitingest.query_parser import parse_query
from gitingest.repository_clone import clone_repo
from gitingest.repository_ingest import ingest, ingest_async
 _all__ = ["run_ingest_query", "clone_repo", "parse_query",
"ingest", "ingest async"]
```

```
File: src/qitingest/cli.py

""" Command-line interface for the Gitingest package. """
pylint: disable=no-value-for-parameter
import asyncio
from typing import Optional, Tuple
import click
from gitingest.config import MAX FILE SIZE, OUTPUT FILE PATH
from gitingest.repository_ingest import ingest_async
@click.command()
@click.argument("source", type=str, default=".")
@click.option("--output", "-o", default=None, help="Output file path
(default: <repo_name>.txt in current directory)")
@click.option("--max-size", "-s", default=MAX_FILE_SIZE,
help="Maximum file size to process in bytes")
@click.option("--exclude-pattern", "-e", multiple=True,
help="Patterns to exclude")
@click.option("--include-pattern", "-i", multiple=True,
help="Patterns to include")
@click.option("--branch", "-b", default=None, help="Branch to clone
and ingest")
def main(
 source: str,
 output: Optional[str],
 max_size: int,
 exclude_pattern: Tuple[str, ...],
 include_pattern: Tuple[str, ...],
 branch: Optional[str],
):
 Main entry point for the CLI. This function is called when the
CLI is run as a script.
 It calls the async main function to run the command.
 Parameters
 source : str
 The source directory or repository to analyze.
 output : str, optional
 The path where the output file will be written. If not
specified, the output will be written
 to a file named `<repo_name>.txt` in the current directory.
 max size : int
 The maximum file size to process, in bytes. Files larger
than this size will be ignored.
```

```
exclude pattern : Tuple[str, ...]
 A tuple of patterns to exclude during the analysis. Files
matching these patterns will be ignored.
 include pattern : Tuple[str, ...]
 A tuple of patterns to include during the analysis. Only
files matching these patterns will be processed.
 branch: str, optional
 The branch to clone (optional).
 # Main entry point for the CLI. This function is called when the
CLI is run as a script.
 asyncio.run(_async_main(source, output, max_size,
exclude_pattern, include_pattern, branch))
async def _async_main(
 source: str,
 output: Optional[str],
 max_size: int,
 exclude_pattern: Tuple[str, ...],
 include_pattern: Tuple[str, ...],
 branch: Optional[str],
) -> None:

 Analyze a directory or repository and create a text dump of its
contents.
 This command analyzes the contents of a specified source
directory or repository, applies custom include and
 exclude patterns, and generates a text summary of the analysis
which is then written to an output file.
 Parameters
 source : str
 The source directory or repository to analyze.
 output : str, optional
 The path where the output file will be written. If not
specified, the output will be written
 to a file named `<repo name>.txt` in the current directory.
 max size : int
 The maximum file size to process, in bytes. Files larger
than this size will be ignored.
 exclude_pattern : Tuple[str, ...]
 A tuple of patterns to exclude during the analysis. Files
matching these patterns will be ignored.
 include_pattern : Tuple[str, ...]
 A tuple of patterns to include during the analysis. Only
files matching these patterns will be processed.
 branch: str, optional
 The branch to clone (optional).
 Raises
```

```
Abort
 If there is an error during the execution of the command,
this exception is raised to abort the process.
 trv:
 # Combine default and custom ignore patterns
 exclude patterns = set(exclude pattern)
 include_patterns = set(include_pattern)
 if not output:
 output = OUTPUT_FILE_PATH
 summary, _, _ = await ingest_async(source, max_size,
include_patterns, exclude_patterns, branch, output=output)
 click.echo(f"Analysis complete! Output written to:
{output}")
 click.echo("\nSummary:")
 click.echo(summary)
 except Exception as e:
 click.echo(f"Error: {e}", err=True)
 raise click.Abort()
if __name__ == "__main__":
 main()

File: src/gitingest/config.py
""" Configuration file for the project. """
import tempfile
from pathlib import Path
MAX FILE SIZE = 10 * 1024 * 1024 # 10 MB
MAX DIRECTORY DEPTH = 20 # Maximum depth of directory traversal
MAX FILES = 10 000 # Maximum number of files to process
MAX TOTAL SIZE BYTES = 500 * 1024 * 1024 # 500 MB
OUTPUT FILE PATH = "digest.txt"
TMP BASE PATH = Path(tempfile.gettempdir()) / "gitingest"

File: src/gitingest/exceptions.pv
""" Custom exceptions for the Gitingest package. """
class InvalidPatternError(ValueError):
```

```
This exception is used to signal that a pattern provided for
some operation
 contains characters that are not allowed. The valid characters
for the pattern
 include alphanumeric characters, dash (-), underscore (_), dot
(.), forward slash (/),
 plus (+), and asterisk (*).
 Parameters
 pattern : str
 The invalid pattern that caused the error.
 def __init__(self, pattern: str) -> None:
 super() init (
 f"Pattern '{pattern}' contains invalid characters. Only
alphanumeric characters, dash (-), "
 "underscore (_), dot (.), forward slash (/), plus (+),
and asterisk (*) are allowed."
class AsyncTimeoutError(Exception):
 Exception raised when an async operation exceeds its timeout
limit.
 This exception is used by the `async_timeout` decorator to
signal that the wrapped
 asynchronous function has exceeded the specified time limit for
execution.

class MaxFilesReachedError(Exception):
 """Exception raised when the maximum number of files is
reached."""
 def init (self, max files: int) -> None:
 super(). init (f"Maximum number of files ({max files})
reached.")
class MaxFileSizeReachedError(Exception):
 """Exception raised when the maximum file size is reached."""
 def __init__(self, max_size: int):
super().__init__(f"Maximum file size limit ({max_size/
1024/1024:.1f}MB) reached.")
class AlreadyVisitedError(Exception):
 """Exception raised when a symlink target has already been
```

Exception raised when a pattern contains invalid characters.

```
visited."""
 def __init__(self, path: str) -> None:
 super().__init__(f"Symlink target already visited: {path}")
class InvalidNotebookError(Exception):
 """Exception raised when a Jupyter notebook is invalid or cannot
be processed."""
 def __init__(self, message: str) -> None:
 super(). init (message)

File: src/gitingest/ignore_patterns.py
""" Default ignore patterns for Gitingest. """
from typing import Set
DEFAULT_IGNORE_PATTERNS: Set[str] = {
 # Python
 "*.pyc",
 "*.pyo",
 "*.pyd",
 "__pycache__",
 ".pytest_cache",
 ".coverage",
 ".tox",
 ".nox",
 ".mypy_cache",
 ".ruff_cache",
 ".hypothesis"
 "poetry.lock"
 "Pipfile.lock",
 # JavaScript/Node
 "node_modules",
 "bower_components"
 "package-lock.json",
 "yarn.lock",
 ".npm",
 ".yarn",
 ".pnpm-store",
 "bun.lock",
 "bun.lockb",
 # Java
 "*.class",
 "*.jar",
 "*.war"
 "∗.ear",
 "*.nar",
 ".gradle/",
 "build/",
```

```
".settings/",
".classpath",
"gradle-app.setting",
"*.gradle",
IDEs and editors / Java
".project",
C/C++
"*.0",
"*.obj",
"*.dll"
"*.dylib",
"*.exe",
"*.lib",
"*.out",
"*.a",
"*.pdb",
Swift/Xcode
".build/",
"*.xcodeproj/",
"*.xcworkspace/",
"*.pbxuser",
"*.mode1v3",
"*.mode2v3",
"*.perspectivev3",
"*.xcuserstate",
"xcuserdata/",
".swiftpm/",
Ruby
"*.gem",
".bundle/",
"vendor/bundle",
"Gemfile.lock",
"ruby-version",
".ruby-gemset",
".rvmrc",
Rust
"Cargo.lock",
"**/*.rs.bk",
Java / Rust
"target/",
Go
"pkg/",
.NET/C#
"obj/",
"*.suo",
"*.user",
"*.userosscache",
"*.sln.docstates",
"packages/",
"*•nupkg",
Go / .NET / C#
"bin/",
Version control
".git",
```

```
".svn",
".hg",
".gitignore",
".gitattributes",
".gitmodules",
Images and media
"*.svg",
"*.png",
"*.jpg",
"*.jpeg",
"*.gif",
"*.ico"
"*.pdf",
"*.mov",
"*.mp4",
"*.mp3",
"*.wav",
Virtual environments
"venv",
".venv",
"env",
".env",
"virtualenv",
IDEs and editors
".idea",
".vscode",
".VS",
"*.SWO",
"*.swn",
".settings",
"*.sublime-*",
Temporary and cache files
"*.log",
"∗.baǩ"
"*.swp",
"*.tmp",
"*.temp",
".cache",
".sass-cache",
".eslintcache",
".DS_Store",
"Thumbs.db",
"desktop.ini",
Build directories and artifacts
"build",
"dist",
"target",
"out",
"*.egg-info",
"*.egg",
"*.whl",
"*.SO",
Documentation
"site-packages",
```

```
".docusaurus",
 ".next",
 ".nuxt",
 # Other common patterns
 ## Minified files
 "*.min.js",
 "*.min.css",
 ## Source maps
 "*.map",
 ## Terraform
 ".terraform",
 "*.tfstate*",
 ## Dependencies in various languages
 "vendor/",
}

File: src/gitingest/notebook_utils.py

""" Utilities for processing Jupyter notebooks. """
import json
import warnings
from itertools import chain
from pathlib import Path
from typing import Any, Dict, List, Optional
from gitingest.exceptions import InvalidNotebookError
def process_notebook(file: Path, include_output: bool = True) ->
str:
 Process a Jupyter notebook file and return an executable Python
script as a string.
 Parameters

 file : Path
 The path to the Jupyter notebook file.
 include output : bool
 Whether to include cell outputs in the generated script, by
default True.
 Returns
 str
 The executable Python script as a string.
 Raises
 InvalidNotebookError
 If the notebook file is invalid or cannot be processed.
```

```
try:
 with file.open(encoding="utf-8") as f:
 notebook: Dict[str, Any] = json.load(f)
 except json.JSONDecodeError as e:
 raise InvalidNotebookError(f"Invalid JSON in notebook:
{file}") from e
 # Check if the notebook contains worksheets
 worksheets = notebook.get("worksheets")
 if worksheets:
 warnings.warn(
 "Worksheets are deprecated as of IPEP-17. Consider
updating the notebook. "
 "(See: https://github.com/jupyter/nbformat and "
 "https://github.com/ipython/ipython/wiki/IPEP-17:-
Notebook-Format-4#remove-multiple-worksheets "
 "for more information.)",
 DeprecationWarning,
)
 if len(worksheets) > 1:
 warnings.warn("Multiple worksheets detected. Combining
all worksheets into a single script.", UserWarning)
 cells = list(chain.from_iterable(ws["cells"] for ws in
worksheets))
 else:
 cells = notebook["cells"]
 result = ["# Jupyter notebook converted to Python script."]
 for cell in cells:
 cell_str = _process_cell(cell,
include output=include output)
 if cell str:
 result.append(cell_str)
 return "\n\n".join(result) + "\n"
def _process_cell(cell: Dict[str, Any], include_output: bool) ->
Optional[str]:
 Process a Jupyter notebook cell and return the cell content as a
string.
 Parameters
 cell : Dict[str, Any]
 The cell dictionary from a Jupyter notebook.
 include output : bool
 Whether to include cell outputs in the generated script
```

.....

```
Returns
 str, optional
 The cell content as a string, or None if the cell is empty.
 Raises
 ValueError
 If an unexpected cell type is encountered.
 cell_type = cell["cell_type"]
 # Validate cell type and handle unexpected types
 if cell_type not in ("markdown", "code", "raw"):
 raise ValueError(f"Unknown cell type: {cell_type}")
 cell_str = "".join(cell["source"])
 # Skip empty cells
 if not cell_str:
 return None
 # Convert Markdown and raw cells to multi-line comments
 if cell_type in ("markdown", "raw"):
 return f'"""\n{cell_str}\n"""'
 # Add cell output as comments
 outputs = cell.get("outputs")
 if include_output and outputs:
 # Include cell outputs as comments
 output_lines = []
 for output in outputs:
 output_lines += _extract_output(output)
 for output_line in output_lines:
 if not output_line.endswith("\n"):
 output line += "\n"
 cell_str += "\n# Output:\n# " + "\n#
".join(output_lines)
 return cell_str
def _extract_output(output: Dict[str, Any]) -> List[str]:
 Extract the output from a Jupyter notebook cell.
 Parameters
 output : Dict[str, Any]
```

```
The output dictionary from a Jupyter notebook cell.
 Returns
 List[str]
 The output as a list of strings.
 Raises
 ValueError
 If an unknown output type is encountered.
 output_type = output["output_type"]
 if output_type == "stream":
 return output["text"]
 if output_type in ("execute_result", "display_data"):
 return output["data"]["text/plain"]
 if output_type == "error":
 return [f"Error: {output['ename']}: {output['evalue']}"]
 raise ValueError(f"Unknown output type: {output_type}")
File: src/gitingest/repository_clone.py

""" This module contains functions for cloning a Git repository to a
local path. """
import asyncio
import os
from dataclasses import dataclass
from pathlib import Path
from typing import List, Optional, Tuple
from gitingest.utils import async_timeout
TIMEOUT: int = 20
@dataclass
class CloneConfig:
 Configuration for cloning a Git repository.
 This class holds the necessary parameters for cloning a
repository to a local path, including
 the repository's URL, the target local path, and optional
```

**Attributes** 

parameters for a specific commit or branch.

```
url : str
 The URL of the Git repository to clone.
 local path : str
 The local directory where the repository will be cloned.
 commit: str, optional
 The specific commit hash to check out after cloning (default
is None).
 branch: str, optional
 The branch to clone (default is None).
 url: str
 local path: str
 commit: Optional[str] = None
 branch: Optional[str] = None
@async_timeout(TIMEOUT)
async def clone_repo(config: CloneConfig) -> Tuple[bytes, bytes]:
 Clone a repository to a local path based on the provided
configuration.
 This function handles the process of cloning a Git repository to
the local file system.
 It can clone a specific branch or commit if provided, and it
raises exceptions if
 any errors occur during the cloning process.
 Parameters
 config : CloneConfig
 A dictionary containing the following keys:
 - url (str): The URL of the repository.
 - local_path (str): The local path to clone the
repository to.

 commit (str, optional): The specific commit hash to

checkout.
 - branch (str, optional): The branch to clone. Defaults
to 'main' or 'master' if not provided.
 Returns
 Tuple[bytes, bytes]
 A tuple containing the stdout and stderr of the Git commands
executed.
 Raises
 ValueError
 If the 'url' or 'local_path' parameters are missing, or if
the repository is not found.
 0SError
```

```
If there is an error creating the parent directory
structure.

 # Extract and validate query parameters
 url: str = config.url
 local_path: str = config.local_path
 commit: Optional[str] = config.commit
 branch: Optional[str] = config.branch
 if not url:
 raise ValueError("The 'url' parameter is required.")
 if not local_path:
 raise ValueError("The 'local_path' parameter is required.")
 # Create parent directory if it doesn't exist
 parent_dir = Path(local_path).parent
 try:
 os.makedirs(parent_dir, exist_ok=True)
 except OSError as e:
 raise OSError(f"Failed to create parent directory
{parent dir}: {e}") from e
 # Check if the repository exists
 if not await _check_repo_exists(url):
 raise ValueError("Repository not found, make sure it is
public")
 if commit:
 # Scenario 1: Clone and checkout a specific commit
 # Clone the repository without depth to ensure full history
for checkout
 clone_cmd = ["git", "clone", "--recurse-submodules", "--
single-branch", url, local_path]
 await run git command(*clone cmd)
 # Checkout the specific commit
 checkout_cmd = ["git", "-C", local_path, "checkout", commit]
 return await _run_git_command(*checkout_cmd)
 if branch and branch.lower() not in ("main", "master"):
 # Scenario 2: Clone a specific branch with shallow depth
 clone_cmd = [
 "git",
 "clone",
 "--recurse-submodules",
 "--depth=1",
 "--single-branch",
 "--branch",
 branch.
 url,
 local_path,
 return await _run_git_command(*clone_cmd)
```

```
Scenario 3: Clone the default branch with shallow depth
 clone_cmd = ["git", "clone", "--recurse-submodules", "--
depth=1", "--single-branch", url, local_path]
 return await _run_git_command(*clone_cmd)
async def _check_repo_exists(url: str) -> bool:
 Check if a Git repository exists at the provided URL.
 Parameters
 url : str
 The URL of the Git repository to check.
 Returns
 bool
 True if the repository exists, False otherwise.
 Raises
 RuntimeError
 If the curl command returns an unexpected status code.
 proc = await asyncio.create_subprocess_exec(
 "curl",
 "-I",
 url,
 stdout=asyncio.subprocess.PIPE,
 stderr=asyncio.subprocess.PIPE,
)
 stdout, _ = await proc.communicate()
 if proc.returncode != 0:
 return False
 response = stdout.decode()
 status_code = _get_status_code(response)
 if status_code in (200, 301):
 return True
 if status_code in (404, 302):
 return False
 raise RuntimeError(f"Unexpected status code: {status_code}")
@async_timeout(TIMEOUT)
async def fetch_remote_branch_list(url: str) -> List[str]:
 Fetch the list of branches from a remote Git repository.
 Parameters
```

```
url : str
 The URL of the Git repository to fetch branches from.
 Returns
 List[str]
 A list of branch names available in the remote repository.
 fetch_branches_command = ["git", "ls-remote", "--heads", url]
 stdout, = await run git command(*fetch branches command)
 stdout decoded = stdout.decode()
 return [
 line.split("refs/heads/", 1)[1]
 for line in stdout_decoded.splitlines()
 if line.strip() and "refs/heads/" in line
]
async def _run_git_command(*args: str) -> Tuple[bytes, bytes]:
 Execute a Git command asynchronously and captures its output.
 Parameters
 *args : str
 The Git command and its arguments to execute.
 Returns
 Tuple[bytes, bytes]
 A tuple containing the stdout and stderr of the Git command.
 Raises
 RuntimeError
 If Git is not installed or if the Git command exits with a
non-zero status.
 # Check if Git is installed
 try:
 version proc = await asyncio.create subprocess exec(
 "git",
 "--version",
 stdout=asyncio.subprocess.PIPE,
 stderr=asyncio.subprocess.PIPE,
)
 _, stderr = await version_proc.communicate()
 if version_proc.returncode != 0:
 error_message = stderr.decode().strip() if stderr else
"Git command not found"
 raise RuntimeError(f"Git is not installed or not
accessible: {error message}")
 except FileNotFoundError as exc:
```

```
raise RuntimeError("Git is not installed. Please install Git
before proceeding.") from exc
 # Execute the requested Git command
 proc = await asyncio.create subprocess exec(
 *args,
 stdout=asyncio.subprocess.PIPE,
 stderr=asyncio.subprocess.PIPE,
 stdout, stderr = await proc.communicate()
 if proc.returncode != 0:
 error message = stderr.decode().strip()
 raise RuntimeError(f"Git command failed: {' '.join(args)}
\nError: {error_message}")
 return stdout, stderr
def _get_status_code(response: str) -> int:
 Extract the status code from an HTTP response.
 Parameters
 response: str
 The HTTP response string.
 Returns

 int
 The status code of the response
 status_line = response.splitlines()[0].strip()
 status_code = int(status_line.split(" ", 2)[1])
 return status code
File: src/gitingest/repository_ingest.py

""" Main entry point for ingesting a source and processing its
contents. """
import asyncio
import inspect
import shutil
from typing import Optional, Set, Tuple, Union
from gitingest.config import TMP_BASE_PATH
from gitingest.query_ingestion import run_ingest_query
from gitingest.query_parser import ParsedQuery, parse_query
from gitingest.repository_clone import CloneConfig, clone_repo
```

```
async def ingest async(
 source: str,
 max_file_size: int = 10 * 1024 * 1024, # 10 MB
 include_patterns: Optional[Union[str, Set[str]]] = None,
 exclude_patterns: Optional[Union[str, Set[str]]] = None,
 branch: Optional[str] = None,
 output: Optional[str] = None,
) -> Tuple[str, str, str]:
 Main entry point for ingesting a source and processing its
contents.
 This function analyzes a source (URL or local path), clones the
corresponding repository (if applicable),
 and processes its files according to the specified query
parameters. It returns a summary, a tree-like
 structure of the files, and the content of the files. The
results can optionally be written to an output file.
 Parameters
 source: str
 The source to analyze, which can be a URL (for a Git
repository) or a local directory path.
 max_file_size : int
 Maximum allowed file size for file ingestion. Files larger
than this size are ignored, by default
 10*1024*1024 (10 MB).
 include_patterns : Union[str, Set[str]], optional
 Pattern or set of patterns specifying which files to
include. If `None`, all files are included.
 exclude_patterns : Union[str, Set[str]], optional
 Pattern or set of patterns specifying which files to
exclude. If `None`, no files are excluded.
 branch: str, optional
 The branch to clone and ingest. If `None`, the default
branch is used.
 output : str, optional
 File path where the summary and content should be written.
If `None`, the results are not written to a file.
 Returns
 Tuple[str, str, str]
 A tuple containing:
 - A summary string of the analyzed repository or directory.
 - A tree-like string representation of the file structure.
 - The content of the files in the repository or directory.
```

### Raises

TypeError

If `clone repo` does not return a coroutine, or if the `source` is of an unsupported type.

```
.....
 try:
 parsed_query: ParsedQuery = await parse_query(
 source=source,
 max file size=max file size,
 from web=False,
 include_patterns=include_patterns,
 ignore_patterns=exclude_patterns,
)
 if parsed query.url:
 selected branch = branch if branch else
parsed_query.branch # prioritize branch argument
 parsed_query.branch = selected_branch
 # Extract relevant fields for CloneConfig
 clone_config = CloneConfig(
 url=parsed_query.url,
 local_path=str(parsed_query.local_path),
 commit=parsed_query.commit,
 branch=selected_branch,
)
 clone_result = clone_repo(clone_config)
 if inspect.iscoroutine(clone_result):
 if asyncio.get_event_loop().is_running():
 await clone_result
 else:
 asyncio.run(clone result)
 else:
 raise TypeError("clone_repo did not return a
coroutine as expected.")
 summary, tree, content = run_ingest_query(parsed_query)
 if output is not None:
 with open(output, "w", encoding="utf-8") as f:
 f.write(tree + "\n" + content)
 return summary, tree, content
 finally:
 # Clean up the temporary directory if it was created
 if parsed_query.url:
 # Clean up the temporary directory
 shutil.rmtree(TMP_BASE_PATH, ignore_errors=True)
def ingest(
 source: str,
 max_file_size: int = 10 * 1024 * 1024, # 10 MB
 include_patterns: Optional[Union[str, Set[str]]] = None,
 exclude_patterns: Optional[Union[str, Set[str]]] = None,
 branch: Optional[str] = None,
 output: Optional[str] = None,
```

```
) -> Tuple[str, str, str]:
 Synchronous version of ingest_async.
 This function analyzes a source (URL or local path), clones the
corresponding repository (if applicable),
 and processes its files according to the specified query
parameters. It returns a summary, a tree-like
 structure of the files, and the content of the files. The
results can optionally be written to an output file.
 Parameters
 source : str
 The source to analyze, which can be a URL (for a Git
repository) or a local directory path.
 max_file_size : int
 Maximum allowed file size for file ingestion. Files larger
than this size are ignored, by default
 10*1024*1024 (10 MB).
 include_patterns : Union[str, Set[str]], optional
 Pattern or set of patterns specifying which files to
include. If `None`, all files are included.
 exclude_patterns : Union[str, Set[str]], optional
 Pattern or set of patterns specifying which files to
exclude. If `None`, no files are excluded.
 branch: str, optional
 The branch to clone and ingest. If `None`, the default
branch is used.
 output : str, optional
 File path where the summary and content should be written.
If `None`, the results are not written to a file.
 Returns
 Tuple[str, str, str]
 A tuple containing:
 - A summary string of the analyzed repository or directory.

 A tree-like string representation of the file structure.

 - The content of the files in the repository or directory.
 See Also
 ingest_async : The asynchronous version of this function.
 return asyncio.run(
 ingest async(
 source=source,
 max_file_size=max_file_size,
 include_patterns=include_patterns,
 exclude_patterns=exclude_patterns,
 branch=branch,
 output=output,
)
```

)

```

File: src/gitingest/utils.py

""" Utility functions for the Gitingest package. """
import asyncio
import functools
from typing import Any, Awaitable, Callable, TypeVar
from gitingest.exceptions import AsyncTimeoutError
T = TypeVar("T")
def async_timeout(seconds: int = 10) -> Callable[..., Callable[...,
Awaitable[T]]]:
 Async Timeout decorator.
 This decorator wraps an asynchronous function and ensures it
does not run for
 longer than the specified number of seconds. If the function
execution exceeds
 this limit, it raises an `AsyncTimeoutError`.
 Parameters
 seconds : int
 The maximum allowed time (in seconds) for the asynchronous
function to complete.
 The default is 10 seconds.
 Returns
 Callable[[Callable[P, Awaitable[T]]], Callable[P, Awaitable[T]]]
 A decorator that, when applied to an async function, ensures
the function
 completes within the specified time limit. If the function
takes too long,
 an `AsyncTimeoutError` is raised.
 def decorator(func: Callable[..., Awaitable[T]]) ->
Callable[..., Awaitable[T]]:
 @functools.wraps(func)
 async def wrapper(*args: Any, **kwargs: Any) -> T:
 return await asyncio.wait_for(func(*args, **kwargs),
timeout=seconds)
 except asyncio.TimeoutError as exc:
 raise AsyncTimeoutError(f"Operation timed out after
```

```
return wrapper
 return decorator

File: src/server/main.py

""" Main module for the FastAPI application. """
import os
from pathlib import Path
from typing import Dict
from dotenv import load_dotenv
from fastapi import FastAPI, Request
from fastapi.responses import FileResponse, HTMLResponse
from fastapi.staticfiles import StaticFiles
from slowapi.errors import RateLimitExceeded
from starlette.middleware.trustedhost import TrustedHostMiddleware
from server routers import download, dynamic, index
from server_server_config import templates
from server_server_utils import lifespan, limiter,
rate_limit_exception_handler
Load environment variables from .env file
load_dotenv()
Initialize the FastAPI application with lifespan
app = FastAPI(lifespan=lifespan)
app.state.limiter = limiter
Register the custom exception handler for rate limits
app.add exception handler(RateLimitExceeded,
rate_limit_exception_handler)
Mount static files dynamically to serve CSS, JS, and other static
static_dir = Path(__file__).parent.parent / "static"
app.mount("/static", StaticFiles(directory=static_dir),
name="static")
Fetch allowed hosts from the environment or use the default values
allowed hosts = os.getenv("ALLOWED HOSTS")
if allowed hosts:
 allowed_hosts = allowed_hosts.split(",")
else:
 # Define the default allowed hosts for the application
 default_allowed_hosts = ["gitingest.com", "*.gitingest.com",
```

{seconds} seconds") from exc

```
"localhost", "127.0.0.1"]
 allowed_hosts = default_allowed_hosts
Add middleware to enforce allowed hosts
app.add middleware(TrustedHostMiddleware.
allowed_hosts=allowed_hosts)
@app.get("/health")
async def health check() -> Dict[str, str]:
 Health check endpoint to verify that the server is running.
 Returns
 Dict[str, str]
 A JSON object with a "status" key indicating the server's
health status.
 return {"status": "healthy"}
@app.head("/")
async def head_root() -> HTMLResponse:
 Respond to HTTP HEAD requests for the root URL.
 Mirrors the headers and status code of the index page.
 Returns
 HTMLResponse
 An empty HTML response with appropriate headers.
 return HTMLResponse(content=None, headers={"content-type":
"text/html; charset=utf-8"})
@app.get("/api/", response_class=HTMLResponse)
@app.get("/api", response_class=HTMLResponse)
async def api_docs(request: Request) -> HTMLResponse:
 Render the API documentation page.
 Parameters

 request : Request
 The incoming HTTP request.
 Returns
 HTMLResponse
 A rendered HTML page displaying API documentation.
```

```
return templates.TemplateResponse("api.jinja", {"request":
request})
@app.get("/robots.txt")
async def robots() -> FileResponse:
 Serve the `robots.txt` file to guide search engine crawlers.
 Returns
 FileResponse
 The `robots.txt` file located in the static directory.
 return FileResponse("static/robots.txt")
Include routers for modular endpoints
app.include_router(index)
app.include_router(download)
app.include_router(dynamic)
File: src/server/query_processor.py
""" Process a query by parsing input, cloning a repository, and
generating a summary."""
from functools import partial
from fastapi import Request
from starlette.templating import _TemplateResponse
from gitingest.query ingestion import run ingest query
from gitingest.query_parser import ParsedQuery, parse_query
from gitingest.repository_clone import CloneConfig, clone_repo
from server_server_config import EXAMPLE_REPOS, MAX_DISPLAY_SIZE,
templates
from server server utils import Colors, log slider to size
async def process_query(
 request: Request,
 input_text: str,
 slider_position: int,
 pattern_type: str = "exclude",
 pattern: str = "",
 is_index: bool = False,
) -> _TemplateResponse:
 Process a query by parsing input, cloning a repository, and
generating a summary.
```

Handle user input, process Git repository data, and prepare a response for rendering a template with the processed results or an error message.

```
Parameters
 request : Request
 The HTTP request object.
 input_text : str
 Input text provided by the user, typically a Git repository
URL or slug.
 slider position : int
 Position of the slider, representing the maximum file size
in the query.
 pattern_type : str
 Type of pattern to use, either "include" or "exclude"
(default is "exclude").
 pattern : str
 Pattern to include or exclude in the query, depending on the
pattern type.
 is_index : bool
 Flag indicating whether the request is for the index page
(default is False).
 Returns
 _TemplateResponse
 Rendered template response containing the processed results
or an error message.
 Raises
 ValueError
 If an invalid pattern type is provided.
 if pattern type == "include":
 include patterns = pattern
 exclude_patterns = None
 elif pattern_type == "exclude":
 exclude patterns = pattern
 include patterns = None
 else:
 raise ValueError(f"Invalid pattern type: {pattern_type}")
 template = "index.jinja" if is_index else "git.jinja"
 template_response = partial(templates.TemplateResponse,
name=template)
 max file size = log slider to size(slider position)
 context = {
 "request": request,
 "repo_url": input_text,
 "examples": EXAMPLE REPOS if is index else [],
 "default_file_size": slider_position,
```

```
"pattern_type": pattern_type,
 "pattern": pattern,
 }
 try:
 parsed guery: ParsedQuery = await parse guery(
 source=input_text,
 max_file_size=max_file_size,
 from_web=True,
 include patterns=include patterns,
 ignore_patterns=exclude_patterns,
 if not parsed_query.url:
 raise ValueError("The 'url' parameter is required.")
 clone_config = CloneConfig(
 url=parsed_query.url,
 local_path=str(parsed_query.local_path),
 commit=parsed_query.commit,
 branch=parsed_query.branch,
)
 await clone_repo(clone_config)
 summary, tree, content = run_ingest_query(parsed_query)
 with open(f"{clone_config.local_path}.txt", "w",
encoding="utf-8") as f:
 f.write(tree + "\n" + content)
 except Exception as e:
 # hack to print error message when query is not defined
 if "query" in locals() and parsed_query is not None and
isinstance(parsed_query, dict):
 _print_error(parsed_query["url"], e, max_file_size,
pattern_type, pattern)
 print(f"{Colors.BROWN}WARN{Colors.END}: {Colors.RED}<-</pre>
{Colors.END}", end="")
 print(f"{Colors.RED}{e}{Colors.END}")
 context["error message"] = f"Error: {e}"
 if "405" in str(e):
 context["error message"] = (
 "Repository not found. Please make sure it is public
(private repositories will be supported soon)"
 return template_response(context=context)
 if len(content) > MAX_DISPLAY_SIZE:
 content = (
 f"(Files content cropped to {int(MAX DISPLAY SIZE /
1_000)}k characters, "
 "download full ingest to see more)\n" +
content[:MAX_DISPLAY_SIZE]
 _print_success(
```

```
url=parsed query.url,
 max_file_size=max_file_size,
 pattern_type=pattern_type,
 pattern=pattern,
 summary=summary,
)
 context.update(
 {
 "result": True,
 "summary": summary,
 "tree": tree,
 "content": content,
 "ingest id": parsed query.id,
 }
)
 return template_response(context=context)
def _print_query(url: str, max_file_size: int, pattern_type: str,
pattern: str) -> None:
 Print a formatted summary of the query details, including the
URL, file size,
 and pattern information, for easier debugging or logging.
 Parameters

 url : str
 The URL associated with the query.
 max_file_size : int
 The maximum file size allowed for the query, in bytes.
 pattern type : str
 Specifies the type of pattern to use, either "include" or
"exclude".
 pattern : str
 The actual pattern string to include or exclude in the
query.
 print(f"{Colors.WHITE}{url:<20}{Colors.END}", end="")</pre>
 if int(max_file_size / 1024) != 50:
 print(\overline{f}'' \mid \overline{\{Colors.YELLOW\}}Size: \{int(max_file_size/1024)\}
kb{Colors.END}", end="")
 if pattern_type == "include" and pattern != "":
 print(f" | {Colors.YELLOW}Include {pattern}{Colors.END}",
end="")
 elif pattern_type == "exclude" and pattern != "":
 print(f" | {Colors.YELLOW}Exclude {pattern}{Colors.END}",
end="")
def print error(url: str, e: Exception, max file size: int,
pattern_type: str, pattern: str) -> None:
```

.....

```
Print a formatted error message including the URL, file size,
pattern details, and the exception encountered,
 for debugging or logging purposes.
 Parameters
 url : str
 The URL associated with the query that caused the error.
 e : Exception
 The exception raised during the guery or process.
 max file size : int
 The maximum file size allowed for the query, in bytes.
 pattern type : str
 Specifies the type of pattern to use, either "include" or
"exclude".
 pattern : str
 The actual pattern string to include or exclude in the
query.
 print(f"{Colors.BROWN}WARN{Colors.END}: {Colors.RED}<-</pre>
{Colors.END}", end="")
 _print_query(url, max_file_size, pattern_type, pattern)
 print(f" | {Colors.RED}{e}{Colors.END}")
def _print_success(url: str, max_file_size: int, pattern_type: str,
pattern: str, summary: str) -> None:

 Print a formatted success message, including the URL, file size,
pattern details, and a summary with estimated
 tokens, for debugging or logging purposes.
 Parameters
 url: str
 The URL associated with the successful query.
 max_file_size : int
 The maximum file size allowed for the query, in bytes.
 pattern type : str
 Specifies the type of pattern to use, either "include" or
"exclude".
 pattern : str
 The actual pattern string to include or exclude in the
query.
 summary : str
 A summary of the query result, including details like
estimated tokens.
 estimated_tokens = summary[summary.index("Estimated tokens:") +
len("Estimated ") :]
 print(f"{Colors.GREEN}INFO{Colors.END}: {Colors.GREEN}<-</pre>
{Colors.END}", end="")
```

\_print\_query(url, max\_file\_size, pattern\_type, pattern)

```

File: src/server/server_config.py

""" Configuration for the server. """
from typing import Dict, List
from fastapi.templating import Jinja2Templates
MAX_DISPLAY_SIZE: int = 300_000
DELETE REPO AFTER: int = 60 * 60 # In seconds
EXAMPLE_REPOS: List[Dict[str, str]] = [
 {"name": "Gitingest", "url": "https://github.com/cyclotruc/
gitingest"},
 {"name": "FastAPI", "url": "https://github.com/tiangolo/
fastapi"},
 {"name": "Flask", "url": "https://github.com/pallets/flask"},
 {"name": "Excalidraw", "url": "https://github.com/excalidraw/
excalidraw"},
 {"name": "ApiAnalytics", "url": "https://github.com/tom-draper/
api-analytics"},
templates = Jinja2Templates(directory="server/templates")

File: src/server/server_utils.py

""" Utility functions for the server. """
import asyncio
import math
import shutil
import time
from contextlib import asynccontextmanager
from pathlib import Path
from fastapi import FastAPI, Request
from fastapi.responses import Response
from slowapi import Limiter, _rate_limit_exceeded_handler
from slowapi.errors import RateLimitExceeded
from slowapi.util import get remote address
from gitingest.config import TMP_BASE_PATH
from server_server_config import DELETE_REPO_AFTER
Initialize a rate limiter
limiter = Limiter(key_func=get_remote_address)
```

```
async def rate_limit_exception_handler(request: Request, exc:
Exception) -> Response:
 Custom exception handler for rate-limiting errors.
 Parameters
 request : Request
 The incoming HTTP request.
 exc : Exception
 The exception raised, expected to be RateLimitExceeded.
 Returns
 Response
 A response indicating that the rate limit has been exceeded.
 Raises
 exc
 If the exception is not a RateLimitExceeded error, it is re-
raised.
 if isinstance(exc, RateLimitExceeded):
 # Delegate to the default rate limit handler
 return _rate_limit_exceeded_handler(request, exc)
 # Re-raise other exceptions
 raise exc
@asynccontextmanager
async def lifespan(_: FastAPI):
 Lifecycle manager for handling startup and shutdown events for
the FastAPI application.
 Parameters
 _ : FastAPI
 The FastAPI application instance (unused).
 Yields
 None
 Yields control back to the FastAPI application while the
background task runs.
 task = asyncio.create_task(_remove_old_repositories())
 yield
 # Cancel the background task on shutdown
 task.cancel()
```

```
try:
 await task
 except asyncio.CancelledError:
 pass
async def _remove_old_repositories():
 Periodically remove old repository folders.
 Background task that runs periodically to clean up old
repository directories.
 This task:

 Scans the TMP_BASE_PATH directory every 60 seconds

 Removes directories older than DELETE_REPO_AFTER seconds
 - Before deletion, logs repository URLs to history.txt if a
matching .txt file exists
 - Handles errors gracefully if deletion fails
 The repository URL is extracted from the first .txt file in each
directory.
 assuming the filename format: "owner-repository.txt"
 while True:
 try:
 if not TMP_BASE_PATH.exists():
 await asyncio.sleep(60)
 continue
 current_time = time.time()
 for folder in TMP_BASE_PATH.iterdir():
 # Skip if folder is not old enough
 if current_time - folder.stat().st_ctime <=</pre>
DELETE_REPO_AFTER:
 continue
 await _process_folder(folder)
 except Exception as e:
 print(f"Error in remove old repositories: {e}")
 await asyncio.sleep(60)
async def _process_folder(folder: Path) -> None:
 Process a single folder for deletion and logging.
 Parameters
 folder: Path
 The path to the folder to be processed.
```

```
.....
 # Try to log repository URL before deletion
 txt files = [f for f in folder.iterdir() if f.suffix ==
".txt"l
 # Extract owner and repository name from the filename
 filename = txt_files[0].stem
 if txt_files and "-" in filename:
 owner, repo = filename.split("-", 1)
 repo url = f"{owner}/{repo}"
 with open("history.txt", mode="a", encoding="utf-8") as
history:
 history.write(f"{repo_url}\n")
 except Exception as e:
 print(f"Error logging repository URL for {folder}: {e}")
 # Delete the folder
 try:
 shutil.rmtree(folder)
 except Exception as e:
 print(f"Error deleting {folder}: {e}")
def log_slider_to_size(position: int) -> int:
 Convert a slider position to a file size in bytes using a
logarithmic scale.
 Parameters
 position : int
 Slider position ranging from 0 to 500.
 Returns
 File size in bytes corresponding to the slider position.
 maxp = 500
 minv = math.log(1)
 maxv = math.log(102 400)
 return round(math.exp(minv + (maxv - minv) * pow(position /
maxp, 1.5))) * 1024
Color printing utility
class Colors:
 """ANSI color codes"""
 BLACK = "\033[0;30m"]
 RED = "\033[0;31m"]
```

```
BROWN = "\setminus033[0;33m"
 BLUE = "\033[0;34m"]
 PURPLE = "\033[0;35m"
 CYAN = "\033[0:36m"]
 LIGHT_GRAY = "\033[0;37m"
 DARK GRAY = "\033[1;30m"]
 LIGHT_RED = "\033[1;31m"
 LIGHT_GREEN = "\033[1;32m"
 YELLOW = "\033[1;33m"
 LIGHT BLUE = "\033[1;34m"
 LIGHT PURPLE = "\033[1;35m"
 LIGHT_CYAN = "\033[1;36m"
 WHITE = "\setminus033[1;37m"
 BOLD = "\033[1m"]
 FAINT = "\033[2m"
ITALIC = "\033[3m"
 UNDERLINE = "\033[4m"]
 BLINK = "\033[5m"]
 NEGATIVE = "\033[7m"
 CROSSED = "\033[9m"]
 END = "\033[0m"]

File: src/server/routers/__init__.py
""" This module contains the routers for the FastAPI application.
.....
from server routers download import router as download
from server routers dynamic import router as dynamic
from server routers index import router as index
__all__ = ["download", "dynamic", "index"]
File: src/server/routers/download.py

""" This module contains the FastAPI router for downloading a digest
file. """
from fastapi import APIRouter, HTTPException
from fastapi.responses import Response
from gitingest.config import TMP BASE PATH
router = APIRouter()
@router.get("/download/{digest id}")
async def download ingest(digest id: str) -> Response:
```

GREEN = " $\033[0;32m"$ 

```
Download a .txt file associated with a given digest ID.
 This function searches for a `.txt` file in a directory
corresponding to the provided
 digest ID. If a file is found, it is read and returned as a
downloadable attachment.
 If no `.txt` file is found, an error is raised.
 Parameters
 digest id : str
 The unique identifier for the digest. It is used to find the
corresponding directory
 and locate the .txt file within that directory.
 Returns
 Response
 A FastAPI Response object containing the content of the
found `txt` file. The file is
 sent with the appropriate media type (`text/plain`) and the
correct `Content-Disposition`
 header to prompt a file download.
 Raises
 HTTPException
 If the digest directory is not found or if no `.txt` file
exists in the directory.
 directory = TMP_BASE_PATH / digest_id
 try:
 if not directory.exists():
 raise FileNotFoundError("Directory not found")
 txt_files = [f for f in directory.iterdir() if f.suffix ==
".txt"]
 if not txt_files:
 raise FileNotFoundError("No .txt file found")
 except FileNotFoundError as exc:
 raise HTTPException(status_code=404, detail="Digest not
found") from exc
 # Find the first .txt file in the directory
 first_file = txt_files[0]
 with first_file.open(encoding="utf-8") as f:
 content = f.read()
 return Response(
 content=content,
 media_type="text/plain",
```

```
headers={"Content-Disposition": f"attachment;
filename={first_file.name}"},
)

File: src/server/routers/dynamic.py

""" This module defines the dynamic router for handling dynamic path
requests. """
from fastapi import APIRouter, Form, Request
from fastapi.responses import HTMLResponse
from server.query_processor import process_query
from server_server_config import templates
from server_utils import limiter
router = APIRouter()
@router.get("/{full path:path}")
async def catch_all(request: Request, full_path: str) ->
HTMLResponse:
 Render a page with a Git URL based on the provided path.
 This endpoint catches all GET requests with a dynamic path,
constructs a Git URL
 using the `full_path` parameter, and renders the `git.jinja`
template with that URL.
 Parameters
 request: Request
 The incoming request object, which provides context for
rendering the response.
 full_path : str
 The full path extracted from the URL, which is used to build
the Git URL.
 Returns
 HTMLResponse
 An HTML response containing the rendered template, with the
Git URL
 and other default parameters such as loading state and file
size.
 return templates.TemplateResponse(
 "git.jinja",
 "request": request,
 "repo_url": full_path,
```

```
"loading": True,
 "default_file_size": 243,
 },
)
@router.post("/{full_path:path}", response_class=HTMLResponse)
@limiter.limit("10/minute")
async def process_catch_all(
 request: Request,
 input_text: str = Form(...),
 max file size: int = Form(...),
 pattern_type: str = Form(...),
 pattern: str = Form(...),
) -> HTMLResponse:
 Process the form submission with user input for query
parameters.
 This endpoint handles POST requests, processes the input
parameters (e.g., text, file size, pattern),
 and calls the `process_query` function to handle the query
logic, returning the result as an HTML response.
 Parameters
 request : Request
 The incoming request object, which provides context for
rendering the response.
 input_text : str
 The input text provided by the user for processing, by
default taken from the form.
 max_file_size : int
 The maximum allowed file size for the input, specified by
the user.
 pattern_type : str
 The type of pattern used for the query, specified by the
user.
 pattern : str
 The pattern string used in the query, specified by the user.
 Returns
 HTMLResponse
 An HTML response generated after processing the form input
and query logic,
 which will be rendered and returned to the user.
 return await process_query(
 request,
 input_text,
 max_file_size,
 pattern type,
 pattern,
```

```
is_index=False,
)

File: src/server/routers/index.py

""" This module defines the FastAPI router for the home page of the
application. """
from fastapi import APIRouter, Form, Request
from fastapi.responses import HTMLResponse
from server query_processor import process_query
from server_server_config import EXAMPLE_REPOS, templates
from server server utils import limiter
router = APIRouter()
@router.get("/", response_class=HTMLResponse)
async def home(request: Request) -> HTMLResponse:
 Render the home page with example repositories and default
parameters.
 This endpoint serves the home page of the application, rendering
the `index.jinja` template
 and providing it with a list of example repositories and default
file size values.
 Parameters
 request : Request
 The incoming request object, which provides context for
rendering the response.
 Returns
 HTMLResponse
 An HTML response containing the rendered home page template,
with example repositories
 and other default parameters such as file size.
 return templates.TemplateResponse(
 "index.jinja",
 "request": request,
 "examples": EXAMPLE REPOS,
 "default_file_size": 243,
 },
)
```

```
@router.post("/", response_class=HTMLResponse)
@limiter.limit("10/minute")
async def index post(
 request: Request,
 input_text: str = Form(...),
 max_file_size: int = Form(...),
 pattern_type: str = Form(...),
 pattern: str = Form(...),
) -> HTMLResponse:

 Process the form submission with user input for query
parameters.
 This endpoint handles POST requests from the home page form. It
processes the user-submitted
 input (e.g., text, file size, pattern type) and invokes the
process_query` function to handle
 the query logic, returning the result as an HTML response.
 Parameters
 request : Request
 The incoming request object, which provides context for
rendering the response.
 input_text : str
 The input text provided by the user for processing, by
default taken from the form.
 max_file_size : int
 The maximum allowed file size for the input, specified by
the user.
 pattern_type : str
 The type of pattern used for the query, specified by the
user.
 pattern : str
 The pattern string used in the query, specified by the user.
 Returns
 HTMLResponse
 An HTML response containing the results of processing the
form input and query logic,
 which will be rendered and returned to the user.
 return await process query(
 request,
 input_text,
 max file size,
 pattern_type,
 pattern,
 is_index=True,
)
```

\_\_\_\_\_\_

```
File: src/server/templates/api.jinja

{% extends "base.jinja" %}
{% block title %}Gitingest API{% endblock %}
{% block content %}
 <div class="relative">
 <div class="w-full h-full absolute inset-0 bg-black rounded-</pre>
xl translate-y-2 translate-x-2"></div>
 <div class="bg-[#fff4da] rounded-xl border-[3px] border-</pre>
gray-900 p-8 relative z-20">
 <h1 class="text-3xl font-bold text-gray-900 mb-4">API
Documentation</h1>
 <div class="prose prose-blue max-w-none">
 <div class="bg-yellow-50 border-[3px] border-</pre>
gray-900 p-4 mb-6 rounded-lg">
 <div class="flex">
 <div class="flex-shrink-0">
 <svg class="h-5 w-5 text-yellow-400"</pre>
 viewBox="0 0 20 20"
 fill="currentColor">
 <path fill-rule="evenodd" d="M8.257</pre>
3.099c.765-1.36 2.722-1.36 3.486 0l5.58 9.92c.75 1.334-.213
2.98-1.742 2.98H4.42c-1.53 0-2.493-1.646-1.743-2.98l5.58-9.92zM11
13a1 1 0 11-2 0 1 1 0 012 0zm-1-8a1 1 0 00-1 1v3a1 1 0 002 0V6a1 1 0
00-1-1z" clip-rule="evenodd" />
 </svg>
 </div>
 <div class="ml-3">
 The API
is currently under development..
 </div>
 </div>
 </div>
 We're working on making our API available to the
public.
 In the meantime, you can
 <a href="https://github.com/cyclotruc/gitingest/</pre>
issues/new"
 target=" blank"
 rel="noopener noreferrer"
 class="text-[#6e5000] hover:underline">0pen
an issue on GitHub
 to suggest features.
 </div>
 </div>
 </div>
{% endblock %}
File: src/server/templates/base.jinja

```

```
<!DOCTYPE html>
<html lang="en">
 <head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
 <link rel="icon" type="image/x-icon" href="/static/</pre>
favicon.ico">
 <!-- Search Engine Meta Tags -->
 <meta name="description"</pre>
 content="Replace 'hub' with 'ingest' in any GitHub URL
for a prompt-friendly text.">
 <meta name="keywords"</pre>
 content="Gitingest, AI tools, LLM integration, Ingest,
Digest, Context, Prompt, Git workflow, codebase extraction, Git
repository, Git automation, Summarize, prompt-friendly">
 <meta name="robots" content="index, follow">
 <!-- Favicons -->
 <link rel="icon" type="image/svg+xml" href="/static/</pre>
favicon.svg">
 k rel="icon"
 type="image/png"
 sizes="64x64"
 href="/static/favicon-64.png">
 <link rel="apple-touch-icon"</pre>
 sizes="180x180"
 href="/static/apple-touch-icon.png">
 <!-- Web App Meta -->
 <meta name="apple-mobile-web-app-title" content="Gitingest">
 <meta name="application-name" content="Gitingest">
 <meta name="theme-color" content="#FCA847">
 <meta name="apple-mobile-web-app-capable" content="yes">
 <meta name="apple-mobile-web-app-status-bar-style"</pre>
content="default">
 <!-- OpenGraph Meta Tags -->
 <meta property="og:title" content="Gitingest">
 <meta property="og:description"</pre>
 content="Replace 'hub' with 'ingest' in any GitHub URL
for a prompt-friendly text.">
 <meta property="og:type" content="website">
 <meta property="og:url" content="{{ request.url }}">
 <meta property="og:image" content="/static/og-image.png">
 <title>
 {% block title %}Gitingest{% endblock %}
 </title>
 <script src="https://cdn.tailwindcss.com"></script>
 <script src="/static/js/utils.js"></script>
 <script>
 !function (t, e) { var o, n, p, r; e.__SV || (window.posthog
= e, e._i = [], e.init = function (i, s, a) { function g(t, e) { var
o = e.split("."); 2 == o.length && (t = t[o[0]], e = o[1]), t[e] =
function ()
{ t.push([e].concat(Array.prototype.slice.call(arguments, 0))) } }
(p = t.createElement("script")).type = "text/javascript",
```

```
p.crossOrigin = "anonymous", p.async = !0, p.src =
s.api_host.replace(".i.posthog.com", "-assets.i.posthog.com") + "/
static/array.js", (r = t.getElementsByTagName("script")
[0]).parentNode.insertBefore(p, r); var u = e; for (void 0 !== a ? u
"." + a), t || (e += " (stub)"), e }, u.people.toString = function
() { return u.toString(1) + ".people (stub)" }, o = "init capture
register register_once register_for_session unregister
unregister for session getFeatureFlag getFeatureFlagPayload
isFeatureEnabled reloadFeatureFlags
updateEarlyAccessFeatureEnrollment getEarlyAccessFeatures on
onFeatureFlags onSessionId getSurveys getActiveMatchingSurveys
renderSurvey canRenderSurvey getNextSurveyStep identify
setPersonProperties group resetGroups setPersonPropertiesForFlags
resetPersonPropertiesForFlags setGroupPropertiesForFlags
resetGroupPropertiesForFlags reset get_distinct_id getGroups
get session id get session replay url alias set config
startSessionRecording stopSessionRecording sessionRecordingStarted
captureException loadToolbar get_property getSessionProperty
createPersonProfile opt_in_capturing opt_out_capturing
has opted in capturing has opted out capturing
clear_opt_in_out_capturing debug getPageViewId".split(" "), n = 0; n
< o.length; n++)g(u, o[n]); e._i.push([i, s, a]) }, e.__SV = 1) }
(document, window.posthog || []);
posthog.init('phc_9aNpiIVH2zfTWeY84vdTWxvrJRCQQhP5kcVDXUvcdou', {
 api_host: 'https://eu.i.posthog.com',
 person_profiles: 'always',
 })
 </script>
 {% block extra_head %}{% endblock %}
 <body class="bg-[#FFFDF8] min-h-screen flex flex-col">
 {% include 'components/navbar.jinja' %}
 <!-- Main content wrapper -->
 <main class="flex-1 w-full">
 <div class="max-w-4xl mx-auto px-4 py-8">
 {% block content %}{% endblock %}
 </div>
 </main>
 {% include 'components/footer.jinja' %}
 {% block extra_scripts %}{% endblock %}
 </body>
</html>
File: src/server/templates/git.jinja
{% extends "base.jinja" %}
{% block content %}
 {% if error message %}
 <div class="mb-6 p-4 bg-red-50 border border-red-200</pre>
```

```
rounded-lq text-red-700"
 id="error-message"
 data-message="{{ error_message }}">{{ error_message }}
</div>
 {% endif %}
 {% with is_index=true, show_examples=false %}
 {% include 'components/git form.jinja' %}
 {% endwith %}
 {% if loading %}
 <div class="relative mt-10">
 <div class="w-full h-full absolute inset-0 bg-black</pre>
rounded-xl translate-y-2 translate-x-2"></div>
 <div class="bg-[#fafafa] rounded-xl border-[3px] border-</pre>
gray-900 p-6 relative z-20 flex flex-col items-center space-y-4">
 <div class="loader border-8 border-[#fff4da] border-</pre>
t-8 border-t-[#ffc480] rounded-full w-16 h-16 animate-spin"></div>
 gray-900">Loading...
 </div>
 </div>
 {% endif %}
 {% include 'components/result.jinja' %}
{% endblock content %}
{% block extra_scripts %}
 <script>
 document.addEventListener('DOMContentLoaded', function() {
 const urlInput = document.getElementById('input_text');
 const form = document.getElementById('ingestForm');
 if (urlInput && urlInput.value.trim() && form) {
 // Wait for stars to be loaded before submitting
 waitForStars().then(() => {
 const submitEvent = new SubmitEvent('submit', {
 cancelable: true,
 bubbles: true
 Object.defineProperty(submitEvent, 'target', {
 value: form.
 enumerable: true
 handleSubmit(submitEvent, false);
 }):
 }
 }):
 function waitForStars() {
 return new Promise((resolve) => {
 const checkStars = () => {
 const stars = document.getElementById('github-
stars'):
 if (stars && stars.textContent !== '0') {
 resolve();
 } else {
 setTimeout(checkStars, 10);
 }
```

```
};
 checkStars();
 });
 }
 </script>
{% endblock extra scripts %}

File: src/server/templates/index.jinja
{% extends "base.jinja" %}
{% block extra head %}
 <script>
 function submitExample(repoName) {
 const input = document.getElementById('input text');
 input.value = repoName;
 input.focus();
 }
 </script>
{% endblock %}
{% block content %}
 <div class="mb-8">
 <div class="relative w-full mx-auto flex sm:flex-row flex-</pre>
col justify-center items-start sm:items-center">
 <svg class="h-auto w-16 sm:w-20 md:w-24 flex-shrink-0</pre>
p-2 md:relative sm:absolute lg:absolute left-0 lg:-translate-x-full
lg:ml-32 md:translate-x-10 sm:-translate-y-16 md:-translate-y-0
-translate-x-2 lg:-translate-y-10"
 viewBox="0 0 91 98"
 fill="none"
 xmlns="http://www.w3.org/2000/svg">
 <path d="m35.878 14.162 1.333-5.369 1.933 5.183c4.47</pre>
11.982 14.036 21.085 25.828 24.467l5.42 1.555-5.209 2.16c-11.332
4.697-19.806 14.826-22.888 27.237l-1.333 5.369-1.933-5.183C34.56
57.599 24.993 48.496 13.201 45.1141-5.42-1.555
5.21-2.16c11.331-4.697 19.805-14.826 22.887-27.237Z" fill="#FE4A60"
stroke="#000" stroke-width="3.445">
 </path>
 <path d="M79.653 5.729c-2.436 5.323-9.515</pre>
15.25-18.341 12.374m9.197 16.336c2.6-5.851 10.008-16.834
18.842-13.956m-9.738-15.07c-.374 3.787 1.076 12.078 9.869
14.943M70.61 34.6c.503-4.21-.69-13.346-9.49-16.214M14.922
65.967c1.338 5.677 6.372 16.756 15.808 15.659M18.21
95.832c-1.392-6.226-6.54-18.404-15.984-17.305m12.85-12.892c-.41
3.771-3.576 11.588-12.968 12.681M18.025 96c.367-4.21 3.453-12.905
12.854-14" stroke="#000" stroke-width="2.548" stroke-
linecap="round">
 </path>
 </svq>
 <h1 class="text-4xl sm:text-5xl sm:pt-20 lg:pt-5"
md:text-6xl lg:text-7xl font-bold tracking-tighter w-full inline-
block text-left md:text-center relative">
 Prompt-friendly
```

```
<br
 codebase
 </h1>
 <svg class="w-16 lg:w-20 h-auto lg:absolute flex-</pre>
shrink-0 right-0 bottom-0 md:block hidden translate-y-10
md:translate-y-20 lq:translate-y-4 lq:-translate-x-12 -translate-
x-10"
 viewBox="0 0 92 80"
 fill="none"
 xmlns="http://www.w3.org/2000/svg">
 <path d="m35,213 16,953,595-5,261 2,644 4,587a35,056</pre>
35.056 0 0 0 26.432 17.3315.261.594-4.587 2.644A35.056 35.056 0 0 0
48.23 63.281-.595 5.26-2.644-4.587a35.056 35.056 0 0
0-26.432-17.328l-5.261-.595 4.587-2.644a35.056 35.056 0 0 0
17.329-26.433Z" fill="#5CF1A4" stroke="#000" stroke-width="2.868"
class="">
 </path>
 <path d="M75.062 40.108c1.07 5.255 1.072 16.52-7.472</pre>
19.54m7.422-19.682c1.836 2.965 7.643 8.14 16.187 5.121-8.544
3.02-8.207 15.23-6.971
20.957-1.97-3.343-8.044-9.274-16.588-6.254M12.054 28.012c1.34-5.22
6.126-15.4 14.554-14.369M12.035
28.162c-.274-3.487-2.93-10.719-11.358-11.75C9.104 17.443 14.013
6.262 15.414.542c.226 3.888 2.784 11.92 11.212 12.95" stroke="#000"
stroke-width="2.319" stroke-linecap="round">
 </path>
 </svg>
 </div>
 center mt-8">
 Turn any Git repository into a simple text digest of its
codebase.
 center mt-0">
 This is useful for feeding a codebase into any LLM.
 </div>
 {% if error_message %}
 <div class="mb-6 p-4 bg-red-50 border border-red-200</pre>
rounded-lq text-red-700"
 id="error-message"
 data-message="{{ error_message }}">{{ error_message }}
</div>
 {% endif %}
 {% with is index=true, show examples=true %}
 {% include 'components/git form.jinja' %}
 {% endwith %}
 mt-4">
 You can also replace 'hub' with 'ingest' in any GitHub URL.
 {% include 'components/result.jinja' %}
{% endblock %}
```

```

File: src/server/templates/components/footer.jinja
<footer class="w-full border-t-[3px] border-gray-900 mt-auto">
 <div class="max-w-4xl mx-auto px-4 py-4">
 <div class="grid grid-cols-3 items-center text-gray-900</pre>
text-sm">
 <!-- Left column - GitHub links -->
 <div class="flex items-center space-x-4">
 <a href="https://github.com/cyclotruc/gitingest"
 target="_blank"
 rel="noopener noreferrer"
 class="hover:underline flex items-center">
 <svg class="w-4 h-4 mr-1"
 xmlns="http://www.w3.org/2000/svg"
 viewBox="0 0 496 512">
 <path fill="currentColor" d="M165.9 397.4c0</pre>
2-2.3 3.6-5.2 3.6-3.3.3-5.6-1.3-5.6-3.6 0-2 2.3-3.6 5.2-3.6 3-.3 5.6
1.3 5.6 3.6zm-31.1-4.5c-.7 2 1.3 4.3 4.3 4.9 2.6 1 5.6 0
6.2-2s-1.3-4.3-4.3-5.2c-2.6-.7-5.5.3-6.2 2.3zm44.2-1.7c-2.9.7-4.9
2.6-4.6 4.9.3 2 2.9 3.3 5.9 2.6 2.9-.7 4.9-2.6
4.6-4.6-.3-1.9-3-3.2-5.9-2.9zM244.8 8C106.1 8 0 113.3 0 252c0 110.9
69.8 205.8 169.5 239.2 12.8 2.3 17.3-5.6 17.3-12.1
0-6.2-.3-40.4-.3-61.4 0 0-70 15-84.7-29.8 0 0-11.4-29.1-27.8-36.6 0
0-22.9-15.7 1.6-15.4 0 0 24.9 2 38.6 25.8 21.9 38.6 58.6 27.5 72.9
20.9 2.3-16 8.8-27.1 16-33.7-55.9-6.2-112.3-14.3-112.3-110.5 0-27.5
7.6-41.3 23.6-58.9-2.6-6.5-11.1-33.3 2.6-67.9 20.9-6.5 69 27 69 27
20-5.6 41.5-8.5 62.8-8.5s42.8 2.9 62.8 8.5c0 0 48.1-33.6 69-27 13.7
34.7 5.2 61.4 2.6 67.9 16 17.7 25.8 31.5 25.8 58.9 0 96.5-58.9
104.2-114.8 110.5 9.2 7.9 17 22.9 17 46.4 0 33.7-.3 75.4-.3 83.6 0
6.5 4.6 14.4 17.3 12.1C428.2 457.8 496 362.9 496 252 496 113.3 383.5
8 244.8 8zM97.2 352.9c-1.3 1-1 3.3.7 5.2 1.6 1.6 3.9 2.3 5.2 1 1.3-1
1-3.3-.7-5.2-1.6-1.6-3.9-2.3-5.2-1zm-10.8-8.1c-.7 1.3.3 2.9 2.3 3.9
1.6 1 3.6.7 4.3-.7.7-1.3-.3-2.9-2.3-3.9-2-.6-3.6-.3-4.3.7zm32.4
35.6c-1.6 1.3-1 4.3 1.3 6.2 2.3 2.3 5.2 2.6 6.5 1
1.3-1.3.7-4.3-1.3-6.2-2.2-2.3-5.2-2.6-6.5-1zm-11.4-14.7c-1.6 1-1.6
3.6 0 5.9 1.6 2.3 4.3 3.3 5.6 2.3 1.6-1.3 1.6-3.9
0-6.2-1.4-2.3-4-3.3-5.6-2z" />
 </svq>
 Suggest a feature

 </div>
 <!-- Middle column - Made with love -->
 <div class="flex justify-center items-center">
 <div class="flex items-center">
 made with 💚 by
 <a href="https://bsky.app/profile/</pre>
yasbaltrine.bsky.social"
 target="_blank"
 rel="noopener noreferrer"
 class="ml-1 hover:underline">@rom2
 </div>
```

```
<!-- Right column - Discord -->
 <div class="flex justify-end">
 <a href="https://discord.gg/zerRaGK9EC"</pre>
 target="_blank"
 rel="noopener noreferrer"
 class="hover:underline flex items-center">
 <svg class="w-4 h-4 mr-1"</pre>
 xmlns="http://www.w3.org/2000/svg"
 viewBox="0 0 640 512">
 <path fill="currentColor"</pre>
d="M524.531,69.836a1.5,1.5,0,0,0-.764-.7A485.065,485.065,0,0,0,404.0
81,32.03a1.816,1.816,0,0,0-1.923.91,337.461,337.461,0,0,0-14.9,30.6,
447.848,447.848,0,0,0-134.426,0,309.541,309.541,0,0,0-15.135-30.6,1.
89,1.89,0,0,0-1.924-.91A483.689,483.689,0,0,0,116.085,69.137a1.712,1
.712,0,0,0-.788.676C39.068,183.651,18.186,294.69,28.43,404.354a2.016
,2.016,0,0,0,.765,1.375A487.666,487.666,0,0,0,176.02,479.918a1.9,1.9
,0,0,0,2.063-.676A348.2,348.2,0,0,0,208.12,430.4a1.86,1.86,0,0,0-1.0
19-2.588,321.173,321.173,0,0,1-45.868-21.853,1.885,1.885,0,0,1-.185-
3.126c3.082-2.309,6.166-4.711,9.109-7.137a1.819,1.819,0,0,1,1.9-.256
c96.229,43.917,200.41,43.917,295.5,0a1.812,1.812,0,0,1,1.924.233c2.9
44,2.426,6.027,4.851,9.132,7.16a1.884,1.884,0,0,1-.162,3.126,301.407
,301.407,0,0,1-45.89,21.83,1.875,1.875,0,0,0-1,2.611,391.055,391.055
,0,0,0,30.014,48.815,1.864,1.864,0,0,0,2.063.7A486.048,486.048,0,0,0
,610.7,405.729a1.882,1.882,0,0,0,.765-1.352C623.729,277.594,590.933,
167.465,524.531,69.836ZM222.491,337.58c-28.972,0-52.844-26.587-52.84
4-59.239S193.056,219.1,222.491,219.1c29.665,0,53.306,26.82,52.843,59
.239C275.334,310.993,251.924,337.58,222.491,337.58Zm195.38,0c-28.971
,0-52.843-26.587-52.843-59.239S388.437,219.1,417.871,219.1c29.667,0,
53.307,26.82,52.844,59.239C470.715,310.993,447.538,337.58,417.871,33
7.58Z" />
 </svg>
 Discord

 </div>
 </div>
 </div>
</footer>

File: src/server/templates/components/git form.jinja

<script>
 function changePattern(element) {
 console.log("Pattern changed", element.value);
 let patternType = element.value;
 const files = document.getElementsByName("tree-line");
 Array.from(files).forEach((element) => {
 if (element.textContent.includes("Directory
structure:")) {
 return;
```

</div>

```
element.classList.toggle('line-through');
 element.classList.toggle('text-gray-500');
 element.classList.toggle('hover:text-inherit');
 element.classList.toggle('hover:no-underline');
 element.classList.toggle('hover:line-through');
 element.classList.toggle('hover:text-gray-500');
 });
 }
</script>
<div class="relative">
 <div class="w-full h-full absolute inset-0 bg-gray-900 rounded-</pre>
xl translate-y-2 translate-x-2"></div>
 <div class="rounded-xl relative z-20 pl-8 sm:pl-10 pr-8 sm:pr-16</pre>
py-8 border-[3px] border-gray-900 bg-[#fff4da]">
 <img src="https://cdn.devdojo.com/images/january2023/</pre>
shape-1.png"
 class="absolute md:block hidden left-0 h-[4.5rem] w-
[4.5rem] bottom-0 -translate-x-full ml-3">
 <form class="flex md:flex-row flex-col w-full h-full</pre>
justify-center items-stretch space-y-5 md:space-y-0 md:space-x-5"
 id="ingestForm"
 onsubmit="handleSubmit(event{% if is_index %}, true{%
endif %})">
 <div class="relative w-full h-full">
 <div class="w-full h-full rounded bg-gray-900</pre>
translate-y-1 translate-x-1 absolute inset-0 z-10"></div>
 <input type="text"</pre>
 name="input text"
 id="input text"
 placeholder="https://github.com/..."
 value="{{ repo_url if repo_url else '' }}"
 class="border-[3px] w-full relative z-20
border-gray-900 placeholder-gray-600 text-lg font-medium
focus:outline-none py-3.5 px-6 rounded">
 </div>
 <div class="relative w-auto flex-shrink-0 h-full group">
 <div class="w-full h-full rounded bg-gray-800</pre>
translate-y-1 translate-x-1 absolute inset-0 z-10"></div>
 <button type="submit"</pre>
 class="py-3.5 rounded px-6 group-hover:-
translate-y-px group-hover:-translate-x-px ease-out duration-300
z-20 relative w-full border-[3px] border-gray-900 font-medium bg-
[#ffc480] tracking-wide text-lg flex-shrink-0 text-gray-900">
 Ingest
 </button>
 </div>
 <input type="hidden" name="pattern_type"</pre>
value="exclude">
 <input type="hidden" name="pattern" value="">
 <div class="mt-4 relative z-20 flex flex-wrap gap-4 items-</pre>
start">
```

```
<!-- Pattern selector -->
 <div class="w-[200px] sm:w-[250px] mr-9 mt-4">
 <div class="relative">
 <div class="w-full h-full rounded bg-gray-900</pre>
translate-y-1 translate-x-1 absolute inset-0 z-10"></div>
 <div class="flex relative z-20 border-[3px]</pre>
border-gray-900 rounded bg-white">
 <div class="relative flex items-center">
 <select id="pattern_type"</pre>
 onchange="changePattern(this)"
 name="pattern type"
 class="w-21 py-2 pl-2 pr-6
appearance-none bg-[#e6e8eb] focus:outline-none border-r-[3px]
border-gray-900">
 <option value="exclude"</pre>
 {% if pattern type ==
'exclude' or not pattern_type %}selected{% endif %}>
 Exclude
 </option>
 <option value="include" {% if</pre>
pattern_type == 'include' %}selected{% endif %}>Include</option>
 </select>
 <svg class="absolute right-2 w-4 h-4</pre>
pointer-events-none"
 xmlns="http://www.w3.org/2000/svg"
 viewBox="0 0 24 24"
 fill="none"
 stroke="currentColor"
 stroke-width="2"
 stroke-linecap="round"
 stroke-linejoin="round">
 <polyline points="6 9 12 15 18 9" />
 </svg>
 </div>
 <input type="text"</pre>
 id="pattern"
 name="pattern"
 placeholder="*.md, src/ "
 value="{{ pattern if pattern else
'' }}"
 class=" py-2 px-2 bg-[#E8F0FE]
focus:outline-none w-full">
 </div>
 </div>
 </div>
 <div class="w-[200px] sm:w-[200px] mt-3">
 <label for="file size" class="block text-gray-700</pre>
mb-1">
 Include files under: <span id="size_value"</pre>
class="font-bold">50kb
 </label>
 <input type="range"</pre>
 id="file_size"
 name="max_file_size"
```

```
min="0"
 max="500"
 required
 value="{{ default_file_size }}"
 class="w-full h-3 bg-[#FAFAFA] bg-no-repeat
bg-[length:50% 100%] bg-[#ebdbb7] appearance-none border-[3px]
border-gray-900 rounded-sm focus:outline-none bg-gradient-to-r from-
[#FE4A60] to-[#FE4A60] [&::-webkit-slider-thumb]:w-5 [&::-webkit-
slider-thumb]:h-7 [&::-webkit-slider-thumb]:appearance-none [&::-
webkit-slider-thumb]:bg-white [&::-webkit-slider-thumb]:rounded-sm
[&::-webkit-slider-thumb]:cursor-pointer [&::-webkit-slider-
thumb]:border-solid [&::-webkit-slider-thumb]:border-[3px] [&::-
webkit-slider-thumb]:border-gray-900 [&::-webkit-slider-
thumb]:shadow-[3px 3px 0 #000]
 </div>
 </div>
 {% if show_examples %}
 <!-- Example repositories section -->
 <div class="mt-4">
 Try these example
repositories:
 <div class="flex flex-wrap gap-2">
 {% for example in examples %}
 <button
onclick="submitExample('{{ example.url }}')"
 class="px-4 py-1 bg-[#EBDBB7]
hover:bg-[#FFC480] text-gray-900 rounded transition-colors
duration-200 border-[3px] border-gray-900 relative hover:-translate-
v-px hover:-translate-x-px">
 {{ example.name }}
 </button>
 {% endfor %}
 </div>
 </div>
 {% endif %}
 </div>
</div>
File: src/server/templates/components/navbar.iinia

<script>
 function formatStarCount(count) {
 if (count >= 1000) {
 return (count / 1000).toFixed(1) + 'k';
 return count.toString();
 }
 async function fetchGitHubStars() {
 try {
 const response = await fetch('https://api.github.com/
repos/cyclotruc/gitingest');
```

```
const data = await response.json();
 const starCount = data.stargazers_count;
 document.getElementById('github-stars').textContent =
formatStarCount(starCount):
 } catch (error) {
 console.error('Error fetching GitHub stars:', error);
 document.getElementById('github-
stars').parentElement.style.display = 'none';
 }
 fetchGitHubStars();
</script>
<header class="sticky top-0 bg-[#FFFDF8] border-b-[3px] border-</pre>
qray-900 z-50">
 <div class="max-w-4xl mx-auto px-4">
 <div class="flex justify-between items-center h-16">
 <!-- Logo -->
 <div class="flex items-center gap-4">
 <h1 class="text-2xl font-bold tracking-tight">
 <a href="/" class="hover:opacity-80 transition-
opacity">
 Git<span</pre>
class="text-[#FE4A60]">ingest

 </h1>
 </div>
 <!-- Navigation with updated styling -->
 <nav class="flex items-center space-x-6">
 <!-- Simplified Chrome extension button -->
 <a href="https://chromewebstore.google.com/detail/</pre>
git-ingest-turn-any-git-r/adfjahbijlkjfoicpjkhjicpjpjfaood"
 target="_blank"
 rel="noopener noreferrer"
 class="text-gray-900 hover:-translate-y-0.5
transition-transform flex items-center gap-1.5">
 <div class="flex items-center">
 <svg xmlns="http://www.w3.org/2000/svg"</pre>
 width="24"
 height="24"
 viewBox="0 0 50 50"
 fill="none"
 stroke="currentColor"
 stroke-width="3"
 class="w-4 h-4 mx-1">
 <path d="M 25 2 C 12.309295 2 2</pre>
12.309295 2 25 C 2 37.690705 12.309295 48 25 48 C 37.690705 48 48
37.690705 48 25 C 48 12.309295 37.690705 2 25 2 z M 25 4 C 32.987976
4 39.925645 8.44503 43.476562 15 L 25 15 A 1.0001 1.0001 0 0 0
24.886719 15.005859 C 19.738868 15.064094 15.511666 19.035373
15.046875 24.078125 L 8.0351562 12.650391 C 11.851593 7.4136918
18.014806 4 25 4 z M 6.8242188 14.501953 L 16.476562 30.230469 A
1.0001 1.0001 0 0 0 16.591797 30.388672 A 1.0001 1.0001 0 0 0
```

```
16.59375 30.392578 C 18.3752 33.158533 21.474925 35 25 35 C
26.413063 35 27.756327 34.701734 28.976562 34.169922 L 22.320312
45.824219 C 11.979967 44.509804 4 35.701108 4 25 C 4 21.169738
5.0375742 17.591533 6.8242188 14.501953 z M 25 17 C 29.430123 17 33
20.569877 33 25 C 33 26.42117 32.629678 27.751591 31.984375 28.90625
A 1.0001 1.0001 0 0 0 31.982422 28.908203 A 1.0001 1.0001 0 0 0
31.947266 28.966797 C 30.57172 31.37734 27.983486 33 25 33 C
20.569877 33 17 29.430123 17 25 C 17 20.569877 20.569877 17 25 17 z
M 30.972656 17 L 44.421875 17 C 45.43679 19.465341 46 22.165771 46
25 C 46 36.609824 36.609824 46 25 46 C 24.842174 46 24.686285
45.991734 24.529297 45.988281 L 33.683594 29.958984 A 1.0001 1.0001
0 0 0 33.742188 29.841797 C 34.541266 28.405674 35 26.755664 35 25 C
35 21.728612 33.411062 18.825934 30.972656 17 z" />
 </svq>
 Extension
 </div>

 <div class="flex items-center gap-2">
 <a href="https://github.com/cyclotruc/gitingest"</pre>
 target="_blank"
 rel="noopener noreferrer"
 class="text-gray-900 hover:-translate-y-0.5
transition-transform flex items-center gap-1.5">
 <svg class="w-4 h-4"
 fill="currentColor"
 viewBox="0 0 24 24"
 aria-hidden="true">
 <path fill-rule="evenodd" d="M12 2C6.477</pre>
2 2 6.484 2 12.017c0 4.425 2.865 8.18 6.839
9.504.5.092.682-.217.682-.483
0-.237-.008-.868-.013-1.703-2.782.605-3.369-1.343-3.369-1.343-.454-1
.158-1.11-1.466-1.11-1.466-.908-.62.069-.608.069-.608 1.003.07 1.531
1.032 1.531 1.032.892 1.53 2.341 1.088
2.91.832.092-.647.35-1.088.636-1.338-2.22-.253-4.555-1.113-4.555-4.9
51 0-1.093.39-1.988 1.029-2.688-.103-.253-.446-1.272.098-2.65 0 0
.84-.27 2.75 1.026A9.564 9.564 0 0112 6.844c.85.004 1.705.115
2.504.337 1.909-1.296 2.747-1.027 2.747-1.027.546 1.379.202 2.398.1
2.651.64.7 1.028 1.595 1.028 2.688 0 3.848-2.339 4.695-4.566
4.943.359.309.678.92.678 1.855 0 1.338-.012 2.419-.012 2.747 0
.268.18.58.688.482A10.019 10.019 0 0022 12.017C22 6.484 17.522 2 12
2z" clip-rule="evenodd">
 </path>
 </svq>
 GitHub

 <div class="flex items-center text-sm text-</pre>
gray-600">
 <svg class="w-4 h-4 text-[#ffc480] mr-1"</pre>
 fill="currentColor"
 viewBox="0 0 20 20">
 <path d="M9.049 2.927c.3-.921 1.603-.921</pre>
1.902 0l1.07 3.292a1 1 0 00.95.69h3.462c.969 0 1.371 1.24.588
1.81l-2.8 2.034a1 1 0 00-.364 1.118l1.07 3.292c.3.921-.755
1.688-1.54 1.118l-2.8-2.034a1 1 0 00-1.175 0l-2.8
```

```
2.034c-.784.57-1.838-.197-1.539-1.118l1.07-3.292a1 1 0
00-.364-1.118L2.98 8.72c-.783-.57-.38-1.81.588-1.81h3.461a1 1 0
00.951-.69l1.07-3.292z" />
 </svq>
 0
 </div>
 </div>
 </nav>
 </div>
 </div>
</header>

File: src/server/templates/components/result.jinja
<script>
 function getFileName(line) {
 // Skips "|", "L", "-" found in file tree
 const index = line.search(/[a-zA-Z0-9]/);
 return line.substring(index).trim();
 }
 function toggleFile(element) {
 const patternInput = document.getElementById("pattern");
 const patternFiles = patternInput.value ?
patternInput.value.split(",").map(item => item.trim()) : [];
 if (element.textContent.includes("Directory structure:")) {
 return;
 }
 element.classList.toggle('line-through');
 element.classList.toggle('text-gray-500');
 const fileName = getFileName(element.textContent);
 const fileIndex = patternFiles.indexOf(fileName);
 if (fileIndex !==-1) {
 patternFiles.splice(fileIndex, 1);
 } else {
 patternFiles.push(fileName);
 }
 patternInput.value = patternFiles.join(", ");
 }
</script>
{% if result %}
 <div class="mt-10" data-results>
 <div class="relative">
 <div class="w-full h-full absolute inset-0 bg-gray-900</pre>
rounded-xl translate-y-2 translate-x-2"></div>
 <div class="bg-[#fafafa] rounded-xl border-[3px] border-</pre>
gray-900 p-6 relative z-20 space-y-6">
```

```
<!-- Summary and Directory Structure -->
 <div class="grid grid-cols-1 md:grid-cols-12 gap-6">
 <!-- Summary Column -->
 <div class="md:col-span-5">
 <div class="flex justify-between items-</pre>
center mb-4 py-2">
 <h3 class="text-lq font-bold text-
gray-900">Summary</h3>
 </div>
 <div class="relative">
 <div class="w-full h-full rounded ba-</pre>
gray-900 translate-y-1 translate-x-1 absolute inset-0"></div>
 <textarea class="w-full h-[160px] p-4
bq-[#fff4da] border-[3px] border-gray-900 rounded font-mono text-sm
resize-none focus:outline-none relative z-10"
 readonly>{{ summary }}
textarea>
 </div>
 {% if ingest_id %}
 <div class="relative mt-4 inline-block</pre>
group">
 <div class="w-full h-full rounded</pre>
bg-gray-900 translate-y-1 translate-x-1 absolute inset-0"></div>
 <a href="/download/{{ ingest_id }}"</pre>
 class="inline-flex items-center
px-4 py-2 bg-[#ffc480] border-[3px] border-gray-900 text-gray-900
rounded group-hover:-translate-y-px group-hover:-translate-x-px
transition-transform relative z-10">
 <svg class="w-4 h-4 mr-2"</pre>
 fill="none"
 stroke="currentColor"
 viewBox="0 0 24 24">
 <path stroke-linecap="round"</pre>
stroke-linejoin="round" stroke-width="2" d="M4 16v1a3 3 0 003 3h10a3
3\ 0\ 003-3v-1m-4-4l-4\ 4m0\ 0l-4-4m4\ 4V4''\ />
 </sva>
 Download

 </div>
 <div class="relative mt-4 inline-block</pre>
aroup ml-4">
 <div class="w-full h-full rounded</pre>
bg-gray-900 translate-y-1 translate-x-1 absolute inset-0"></div>
 <button onclick="copyFullDigest()"</pre>
 class="inline-flex items-
center px-4 py-2 bg-[#ffc480] border-[3px] border-gray-900 text-
gray-900 rounded group-hover:-translate-y-px group-hover:-translate-
x-px transition-transform relative z-10">
 <svg class="w-4 h-4 mr-2"
 fill="none"
 stroke="currentColor"
 viewBox="0 0 24 24">
 <path stroke-linecap="round"</pre>
stroke-linejoin="round" stroke-width="2" d="M8 5H6a2 2 0 00-2 2v12a2
```

```
2 0 002 2h10a2 2 0 002-2v-1M8 5a2 2 0 002 2h2a2 2 0 002-2M8 5a2 2 0
012-2h2a2 2 0 012 2m0 0h2a2 2 0 012 2v3m2 4H10m0 0l3-3m-3 3l3 3" />
 </svq>
 Copy all
 </button>
 </div>
 {% endif %}
 </div>
 <!-- Directory Structure Column -->
 <div class="md:col-span-7">
 <div class="flex justify-between items-</pre>
center mb-4">
 <h3 class="text-lg font-bold text-
gray-900">Directory Structure</h3>
 <div class="relative group">
 <div class="w-full h-full rounded</pre>
bg-gray-900 translate-y-1 translate-x-1 absolute inset-0"></div>
 <button
onclick="copyText('directory-structure')"
 class="px-4 py-2 bq-
[#ffc480] border-[3px] border-gray-900 text-gray-900 rounded group-
hover:-translate-y-px group-hover:-translate-x-px transition-
transform relative z-10 flex items-center gap-2">
 <svg class="w-4 h-4" fill="none"</pre>
stroke="currentColor" viewBox="0 0 24 24">
 <path stroke-linecap="round"</pre>
stroke-linejoin="round" stroke-width="2" d="M8 5H6a2 2 0 00-2 2v12a2
2 0 002 2h10a2 2 0 002-2v-1M8 5a2 2 0 002 2h2a2 2 0 002-2M8 5a2 2 0
012-2h2a2 2 0 012 2m0 0h2a2 2 0 012 2v3m2 4H10m0 0l3-3m-3 3l3 3" />
 </svq>
 Copy
 </button>
 </div>
 </div>
 <div class="relative">
 <div class="w-full h-full rounded bg-</pre>
gray-900 translate-y-1 translate-x-1 absolute inset-0"></div>
 <div class="directory-structure w-full</pre>
p-4 bg-[#fff4da] border-[3px] border-gray-900 rounded font-mono
text-sm resize-y focus:outline-none relative z-10 h-[215px]
overflow-auto"
 id="directory-structure-container"
 readonlv>
 <input type="hidden" id="directory-</pre>
structure-content" value="{{ tree }}" />
 {% for line in tree.splitlines() %}
 <div name="tree-line"
 class="cursor-pointer
hover:line-through hover:text-gray-500"
onclick="toggleFile(this)">{{ line }}</div>
 {% endfor %}
 </div>
 </div>
```

```
</div>
 </div>
 <!-- Full Digest -->
 <div>
 <div class="flex justify-between items-center</pre>
mb-4">
 <h3 class="text-lq font-bold text-
gray-900">Files Content</h3>
 <div class="relative group">
 <div class="w-full h-full rounded bq-</pre>
gray-900 translate-y-1 translate-x-1 absolute inset-0"></div>
 <button onclick="copyText('result-</pre>
text')"
 class="px-4 py-2 bq-[#ffc480]
border-[3px] border-gray-900 text-gray-900 rounded group-hover:-
translate-y-px group-hover:-translate-x-px transition-transform
relative z-10 flex items-center gap-2">
 <svg class="w-4 h-4" fill="none"</pre>
stroke="currentColor" viewBox="0 0 24 24">
 <path stroke-linecap="round"</pre>
stroke-linejoin="round" stroke-width="2" d="M8 5H6a2 2 0 00-2 2v12a2
2 0 002 2h10a2 2 0 002-2v-1M8 5a2 2 0 002 2h2a2 2 0 002-2M8 5a2 2 0
012-2h2a2 2 0 012 2m0 0h2a2 2 0 012 2v3m2 4H10m0 0l3-3m-3 3l3 3" />
 </svq>
 Copy
 </button>
 </div>
 </div>
 <div class="relative">
 <div class="w-full h-full rounded bg-</pre>
gray-900 translate-y-1 translate-x-1 absolute inset-0"></div>
 <textarea class="result-text w-full p-4 bg-
[#fff4da] border-[3px] border-gray-900 rounded font-mono text-sm
resize-v focus:outline-none relative z-10"
 style="min-height: {{ '600px' if
content else 'calc(100vh-800px)' }}"
 readonly>{{ content }}</textarea>
 </div>
 </div>
 </div>
 </div>
 </div>
{% endif %}

File: src/static/robots.txt

User-agent: *
Allow: /
Allow: /api/
Allow: /cyclotruc/gitingest/
```

```
File: src/static/js/utils.js

// Copy functionality
function copyText(className) {
 let textToCopy;
 if (className === 'directory-structure') {
 // For directory structure, get the hidden input value
 const hiddenInput = document.getElementById('directory-
structure-content'):
 if (!hiddenInput) return;
 textToCopy = hiddenInput.value;
 // For other elements, get the textarea value
 const textarea = document.querySelector('.' + className);
 if (!textarea) return;
 textToCopy = textarea.value;
 }
 const button =
document.guerySelector(`button[onclick="copyText('$
{className}')"]`);
 if (!button) return;
 // Copy text
 navigator.clipboard.writeText(textToCopy)
 .then(() => {
 // Store original content
 const originalContent = button.innerHTML;
 // Change button content
 button.innerHTML = 'Copied!';
 // Reset after 1 second
 setTimeout(() => {
 button.innerHTML = originalContent;
 }, 1000);
 })
 .catch(err => {
 // Show error in button
 const originalContent = button.innerHTML;
 button.innerHTML = 'Failed to copy';
 setTimeout(() => {
 button.innerHTML = originalContent;
 }, 1000);
 });
}
function handleSubmit(event, showLoading = false) {
 event.preventDefault();
 const form = event.target ||
document.getElementById('ingestForm');
```

```
if (!form) return;
 const submitButton =
form.querySelector('button[type="submit"]');
 if (!submitButton) return:
 const formData = new FormData(form);
 // Update file size
 const slider = document.getElementById('file_size');
 if (slider) {
 formData.delete('max file size');
 formData.append('max_file_size', slider.value);
 }
 // Update pattern type and pattern
 const patternType = document.getElementById('pattern_type');
 const pattern = document.getElementById('pattern');
 if (patternType && pattern) {
 formData.delete('pattern_type');
 formData.delete('pattern');
 formData.append('pattern_type', patternType.value);
 formData.append('pattern', pattern.value);
 }
 const originalContent = submitButton.innerHTML;
 const currentStars = document.getElementById('github-
stars')?.textContent;
 if (showLoading) {
 submitButton.disabled = true;
 submitButton.innerHTML =
 <div class="flex items-center justify-center">
 <svg class="animate-spin h-5 w-5 text-gray-900"</pre>
xmlns="http://www.w3.org/2000/svg" fill="none" viewBox="0 0 24 24">
 <circle class="opacity-25" cx="12" cy="12"</pre>
r="10" stroke="currentColor" stroke-width="4"></circle>
 <path class="opacity-75" fill="currentColor"</pre>
d="M4 12a8 8 0 018-8V0C5.373 0 0 5.373 0 12h4zm2 5.291A7.962 7.962 0
014 12H0c0 3.042 1.135 5.824 3 7.938l3-2.647z"></path>
 </sva>
 Processing...
 </div>
 submitButton.classList.add('bg-[#ffb14d]');
 }
 // Submit the form
 fetch(form.action, {
 method: 'POST',
 body: formData
 })
 .then(response => response.text())
 .then(html => {
```

```
// Store the star count before updating the DOM
 const starCount = currentStars;
 // Replace the entire body content with the new HTML
 document.body.innerHTML = html;
 // Wait for next tick to ensure DOM is updated
 setTimeout(() => {
 // Reinitialize slider functionality
 initializeSlider():
 const starsElement =
document.getElementById('github-stars');
 if (starsElement && starCount) {
 starsElement.textContent = starCount;
 // Scroll to results if they exist
 const resultsSection =
document.querySelector('[data-results]');
 if (resultsSection) {
 resultsSection.scrollIntoView({ behavior:
'smooth', block: 'start' });
 }, 0);
 })
 .catch(error => {
 submitButton.disabled = false;
 submitButton.innerHTML = originalContent;
 });
}
function copyFullDigest() {
 const directoryStructure = document.getElementById('directory-
structure-content').value:
 const filesContent = document.querySelector('.result-
text').value:
 const fullDigest = `${directoryStructure}\n\nFiles Content:\n\n$
{filesContent}`;
 const button =
document.querySelector('[onclick="copyFullDigest()"]');
 const originalText = button.innerHTML;
 navigator.clipboard.writeText(fullDigest).then(() => {
 button.innerHTML =
 <svg class="w-4 h-4 mr-2" fill="none"</pre>
stroke="currentColor" viewBox="0 0 24 24">
 <path stroke-linecap="round" stroke-linejoin="round"</pre>
stroke-width="2" d="M5 13l4 4L19 7"></path>
 </svq>
 Copied!
 `:
 setTimeout(() => {
```

```
button.innerHTML = originalText;
 }, 2000);
 }).catch(err => {
 console.error('Failed to copy text: ', err);
 }):
}
// Add the logSliderToSize helper function
function logSliderToSize(position) {
 const minp = 0;
 const maxp = 500;
 const minv = Math.log(1);
 const maxv = Math.log(102400);
 const value = Math.exp(minv + (maxv - minv) *
Math.pow(position / maxp, 1.5));
 return Math.round(value);
}
// Move slider initialization to a separate function
function initializeSlider() {
 const slider = document.getElementById('file size');
 const sizeValue = document.getElementById('size_value');
 if (!slider || !sizeValue) return;
 function updateSlider() {
 const value = logSliderToSize(slider.value);
 sizeValue.textContent = formatSize(value);
 slider.style.backgroundSize = `${(slider.value / slider.max)
* 100}% 100%`;
 }
 // Update on slider change
 slider.addEventListener('input', updateSlider);
 // Initialize slider position
 updateSlider();
}
// Add helper function for formatting size
function formatSize(sizeInKB) {
 if (sizeInKB >= 1024) {
 return Math.round(sizeInKB / 1024) + 'mb';
 return Math.round(sizeInKB) + 'kb';
// Initialize slider on page load
document.addEventListener('DOMContentLoaded', initializeSlider);
// Make sure these are available globally
window.copyText = copyText;
```

```
window.handleSubmit = handleSubmit;
window.initializeSlider = initializeSlider;
window.formatSize = formatSize;
// Add this new function
function setupGlobalEnterHandler() {
 document.addEventListener('keydown', function (event) {
 if (event.key === 'Enter' &&!
event.target.matches('textarea')) {
 const form = document.getElementById('ingestForm');
 if (form) {
 handleSubmit(new Event('submit'), true);
 }
 });
}
// Add to the DOMContentLoaded event listener
document.addEventListener('DOMContentLoaded', () => {
 initializeSlider();
 setupGlobalEnterHandler();
});

File: tests/conftest.py

Fixtures for tests.
This file provides shared fixtures for creating sample queries, a
temporary directory structure, and a helper function
to write `.ipynb` notebooks for testing notebook utilities.
import ison
from pathlib import Path
from typing import Any, Callable, Dict
import pytest
from gitingest.guery parser import ParsedQuery
WriteNotebookFunc = Callable[[str, Dict[str, Any]], Path]
@pytest.fixture
def sample_query() -> ParsedQuery:
 Provide a default `ParsedQuery` object for use in tests.
 This fixture returns a `ParsedQuery` pre-populated with typical
fields and some default ignore patterns.
```

```
Returns
 ParsedQuery
 The sample `ParsedQuery` object.
 return ParsedQuery(
 user_name="test_user",
 repo_name="test_repo",
 url=None,
 subpath="/",
 local_path=Path("/tmp/test_repo").resolve(),
 slug="test user/test repo",
 id="id",
 branch="main",
 max_file_size=1_000_000,
 ignore_patterns={"*.pyc", "__pycache__", ".git"},
 include_patterns=None,
 pattern_type="exclude",
)
@pytest.fixture
def temp_directory(tmp_path: Path) -> Path:
 Create a temporary directory structure for testing repository
scanning.
 The structure includes:
 test repo/
 — file1.txt
 — file2.py
 - src/
 ├─ subfile1.txt
 - subfile2.py
 — subdir/
 file_subdir.txt
file_subdir.py
 dir1/
 └─ file_dir1.txt
 dir2/
 └─ file_dir2.txt
 Parameters
 tmp_path : Path
 The temporary directory path provided by the `tmp_path`
fixture.
 Returns
 Path
 The path to the created `test_repo` directory.
 test_dir = tmp_path / "test_repo"
```

```
test dir.mkdir()
 # Root files
 (test_dir / "file1.txt").write_text("Hello World")
 (test_dir / "file2.py").write_text("print('Hello')")
 # src directory and its files
 src_dir = test_dir / "src"
 src dir.mkdir()
 (src dir / "subfile1.txt").write text("Hello from src")
 (src dir / "subfile2.py").write text("print('Hello from src')")
 # src/subdir and its files
 subdir = src dir / "subdir"
 subdir.mkdir()
 (subdir / "file_subdir.txt").write_text("Hello from subdir")
 (subdir / "file_subdir.py").write_text("print('Hello from
subdir')")
 # dir1 and its file
 dir1 = test_dir / "dir1"
 dir1.mkdir()
 (dir1 / "file_dir1.txt").write_text("Hello from dir1")
 # dir2 and its file
 dir2 = test_dir / "dir2"
 dir2.mkdir()
 (dir2 / "file_dir2.txt").write_text("Hello from dir2")
 return test_dir
@pytest.fixture
def write_notebook(tmp_path: Path) -> WriteNotebookFunc:
 Provide a helper function to write a `.ipynb` notebook file with
the given content.
 Parameters
 tmp path : Path
 The temporary directory path provided by the `tmp path`
fixture.
 Returns
 WriteNotebookFunc
 A callable that accepts a filename and a dictionary
(representing JSON notebook data), writes it to a `.ipynb`
 file, and returns the path to the file.
 def _write_notebook(name: str, content: Dict[str, Any]) -> Path:
 notebook_path = tmp_path / name
```

```
with notebook_path.open(mode="w", encoding="utf-8") as f:
 json.dump(content, f)
 return notebook_path
 return write notebook

File: tests/test_cli.py

""" Tests for the gitingest cli """
import os
from click.testing import CliRunner
from gitingest.cli import main
from gitingest.config import MAX_FILE_SIZE, OUTPUT_FILE_PATH
def test_cli_with_default_options():
 runner = CliRunner()
 result = runner.invoke(main, ["./"])
 output_lines = result.output.strip().split("\n")
 assert f"Analysis complete! Output written to:
{OUTPUT_FILE_PATH}" in output_lines
 assert os.path.exists(OUTPUT_FILE_PATH), f"Output file was not
created at {OUTPUT_FILE_PATH}"
 os.remove(OUTPUT_FILE_PATH)
def test_cli_with_options():
 runner = CliRunner()
 result = runner.invoke(
 main,
 ſ
 "./",
 "--output",
 str(OUTPUT_FILE_PATH),
 "--max-size",
 str(MAX_FILE_SIZE).
 "--exclude-pattern",
 "tests/",
 "--include-pattern",
 "src/",
],
)
 output_lines = result.output.strip().split("\n")
 assert f"Analysis complete! Output written to:
{OUTPUT_FILE_PATH}" in output_lines
 assert os.path.exists(OUTPUT_FILE_PATH), f"Output file was not
created at {OUTPUT FILE PATH}"
```

```

File: tests/test_flow_integration.py

Integration tests for GitIngest.
These tests cover core functionalities, edge cases, and concurrency
handling.
import shutil
from concurrent.futures import ThreadPoolExecutor
from pathlib import Path
from unittest.mock import patch
import pytest
from fastapi.testclient import TestClient
from src.server.main import app
BASE_DIR = Path(__file__).resolve().parent.parent
TEMPLATE DIR = BASE DIR / "src" / "templates"
@pytest.fixture(scope="module")
def test client():
 """Create a test client fixture."""
 with TestClient(app) as client_instance:
 client_instance.headers.update({"Host": "localhost"})
 yield client_instance
@pytest.fixture(scope="module", autouse=True)
def mock static files():
 """Mock the static file mount to avoid directory errors."""
 with patch("src.server.main.StaticFiles") as mock_static:
 mock_static.return_value = None # Mocks the StaticFiles
response
 yield mock static
@pytest.fixture(scope="module", autouse=True)
def mock_templates():
 """Mock Jinja2 template rendering to bypass actual file
loading."""
 with
patch("starlette.templating.Jinja2Templates.TemplateResponse") as
mock template:
 mock_template.return_value = "Mocked Template Response"
 yield mock_template
```

```
def cleanup temp directories():
 temp_dir = Path("/tmp/gitingest")
 if temp_dir.exists():
 try:
 shutil.rmtree(temp dir)
 except PermissionError as e:
 print(f"Error cleaning up {temp_dir}: {e}")
@pytest.fixture(scope="module", autouse=True)
def cleanup():
 """Cleanup temporary directories after tests."""
 yield
 cleanup temp directories()
@pytest.mark.asyncio
async def test_remote_repository_analysis(request):
 """Test the complete flow of analyzing a remote repository."""
 client = request.getfixturevalue("test_client")
 form_data = {
 "input text": "https://github.com/octocat/Hello-World",
 "max_file_size": "243"
 "pattern_type": "exclude",
"pattern": "",
 }
 response = client.post("/", data=form_data)
 assert response status code == 200, f"Form submission failed:
{response.text}"
 assert "Mocked Template Response" in response text
@pytest.mark.asyncio
async def test_invalid_repository_url(request):
 """Test handling of an invalid repository URL."""
 client = request.getfixturevalue("test client")
 form data = {
 "input_text": "https://github.com/nonexistent/repo",
 "max file size": "243",
 "pattern_type": "exclude",
 "pattern": "",
 }
 response = client.post("/", data=form_data)
 assert response.status_code == 200, f"Request failed:
{response.text}"
 assert "Mocked Template Response" in response text
@pytest.mark.asyncio
async def test_large_repository(request):
 """Simulate analysis of a large repository with nested
folders."""
```

```
client = request.getfixturevalue("test client")
 form_data = {
 "input text": "https://github.com/large/repo-with-many-
files",
 "max_file_size": "243",
 "pattern_type": "exclude",
 "pattern": "",
 }
 response = client.post("/", data=form data)
 assert response status code == 200, f"Request failed:
{response.text}"
 assert "Mocked Template Response" in response text
@pvtest.mark.asvncio
async def test_concurrent_requests(request):
 """Test handling of multiple concurrent requests."""
 client = request.getfixturevalue("test_client")
 def make_request():
 form_data = {
 "input text": "https://github.com/octocat/Hello-World",
 "max_file_size": "243",
 "pattern_type": "exclude",
 "pattern": '"",
 }
 response = client.post("/", data=form_data)
 assert response status code == 200, f"Request failed:
{response.text}"
 assert "Mocked Template Response" in response.text
 with ThreadPoolExecutor(max_workers=5) as executor:
 futures = [executor.submit(make_request) for _ in range(5)]
 for future in futures:
 future.result()
@pytest.mark.asyncio
async def test large file handling(request):
 """Test handling of repositories with large files."""
 client = request.getfixturevalue("test client")
 form data = {
 "input text": "https://github.com/octocat/Hello-World",
 "max_file_size": "1",
 "pattern_type": "exclude",
 "pattern": "",
 }
 response = client.post("/", data=form_data)
 assert response.status_code == 200, f"Request failed:
{response.text}"
 assert "Mocked Template Response" in response text
```

```
@pytest.mark.asyncio
async def test_repository_with_patterns(request):
 """Test repository analysis with include/exclude patterns."""
 client = request.getfixturevalue("test client")
 form data = {
 "input_text": "https://github.com/octocat/Hello-World",
 "max file size": "243"
 "pattern_type": "include",
 "pattern": "*.md",
 }
 response = client.post("/", data=form_data)
 assert response status code == 200, f"Request failed:
{response.text}"
 assert "Mocked Template Response" in response.text
File: tests/test_query_ingestion.py
Tests for the `query_ingestion` module.
These tests validate directory scanning, file content extraction,
notebook handling, and the overall ingestion logic,
including filtering patterns and subpaths.
from pathlib import Path
from unittest.mock import patch
import pytest
from gitingest.query_ingestion import _extract_files_content,
_read_file_content, _scan_directory, run_ingest_query
from gitingest.query_parser import ParsedQuery
def test scan directory(temp directory: Path, sample query:
ParsedQuery) -> None:
 Test `_scan_directory` with default settings.
 Given a populated test directory:
 When `_scan_directory` is called,
 Then it should return a structured node containing the correct
directories and file counts.
 sample_query.local_path = temp_directory
 result = _scan_directory(temp_directory, query=sample_query)
 assert result is not None, "Expected a valid directory node
structure"
```

```
assert result["type"] == "directory"
 assert result["file_count"] == 8, "Should count all .txt and .py
files"
 assert result["dir count"] == 4, "Should include src, src/
subdir, dir1, dir2"
 assert len(result["children"]) == 5, "Should contain file1.txt,
file2.py, src, dir1, dir2"
def test extract files content(temp directory: Path, sample query:
ParsedQuery) -> None:
 Test `_extract_files_content` to ensure it gathers contents from
scanned nodes.
 Given a populated test directory:
 When `_extract_files_content` is called with a valid scan
 Then it should return a list of file info containing the correct
filenames and paths.
 sample_query.local_path = temp_directory
 nodes = _scan_directory(temp_directory, query=sample_query)
 assert nodes is not None, "Expected a valid scan result"
 files = _extract_files_content(query=sample_query, node=nodes)
 assert len(files) == 8, "Should extract all .txt and .py files"
 paths = [f["path"] for f in files]
 # Verify presence of key files
 assert any("file1.txt" in p for p in paths)
 assert any("subfile1.txt" in p for p in paths)
 assert any("file2.py" in p for p in paths)
 assert any("subfile2.py" in p for p in paths)
 assert any("file_subdir.txt" in p for p in paths)
 assert any("file_dir1.txt" in p for p in paths)
 assert any("file dir2.txt" in p for p in paths)
def test_read_file_content_with_notebook(tmp_path: Path) -> None:
 Test `_read_file_content` with a notebook file.
 Given a minimal .ipynb file:
 When `_read_file_content` is called,
 Then `process notebook` should be invoked to handle notebook-
specific content.
 notebook_path = tmp_path / "dummy_notebook.ipynb"
 notebook path.write text("{}", encoding="utf-8") # minimal JSON
```

```
with patch("gitingest.query ingestion.process notebook") as
mock_process:
 _read_file_content(notebook_path)
 mock process.assert called once with(notebook path)
def test_read_file_content_with_non_notebook(tmp_path: Path):
 Test ` read file content` with a non-notebook file.
 Given a standard .py file:
 When `_read_file_content` is called,
 Then `process_notebook` should not be triggered.
 py_file_path = tmp_path / "dummy_file.py"
 py_file_path.write_text("print('Hello')", encoding="utf-8")
 with patch("gitingest.query_ingestion.process_notebook") as
mock_process:
 _read_file_content(py_file_path)
 mock_process.assert_not_called()
def test_include_txt_pattern(temp_directory: Path, sample_query:
ParsedQuery) -> None:
 Test including only .txt files using a pattern like `*.txt`.
 Given a directory with mixed .txt and .py files:
 When `include_patterns` is set to `*.txt`,
 Then `_scan_directory` should include only .txt files,
excluding .py files.
 sample_query.local_path = temp_directory
 sample_query.include_patterns = {"*.txt"}
 result = _scan_directory(temp_directory, query=sample_query)
 assert result is not None, "Expected a valid directory node
structure"
 files = _extract_files_content(query=sample_query, node=result)
 file paths = [f["path"] for f in files]
 assert len(files) == 5, "Should find exactly 5 .txt files"
 assert all(path.endswith(".txt") for path in file paths),
"Should only include .txt files"
expected_files = ["file1.txt", "subfile1.txt",
"file_subdir.txt", "file_dir1.txt", "file_dir2.txt"]
 for expected_file in expected_files:
 assert any(expected file in path for path in file paths),
f"Missing expected file: {expected_file}"
```

```
assert not any(path.endswith(".py") for path in file_paths),
"No .py files should be included"
def test_include_nonexistent_extension(temp_directory: Path,
sample_query: ParsedQuery) -> None:
 Test including a nonexistent extension (e.g., `*.query`).
 Given a directory with no files matching `*.query`:
 When `_scan_directory` is called with that pattern,
 Then no files should be returned in the result.
 sample_query.local_path = temp_directory
 sample guery.include patterns = {"*.guery"} # Nonexistent
extension
 result = _scan_directory(temp_directory, query=sample_query)
 assert result is not None, "Expected a valid directory node
structure"
 files = _extract_files_content(query=sample_query, node=result)
 assert len(files) == 0, "Should not find any files matching
*.query"
 assert result["type"] == "directory"
 assert result["file_count"] == 0, "No files counted with this
pattern"
 assert result["dir_count"] == 0
 assert len(result["children"]) == 0
@pytest.mark.parametrize("include pattern", ["src/*", "src/**",
"src*"])
def test_include_src_patterns(temp_directory: Path, sample_query:
ParsedQuery, include_pattern: str) -> None:
 Test including files under the `src` directory with various
patterns.
 Given a directory containing `src` with subfiles: When `include_patterns` is set to `src/*`, `src/**`, or `src*`,
 Then `scan directory` should include the correct files under
`src`.
 Note: Windows is not supported; paths are converted to Unix-
style for validation.
 sample_query.local_path = temp_directory
 sample_query.include_patterns = {include_pattern}
 result = scan directory(temp directory, query=sample query)
 assert result is not None, "Expected a valid directory node
```

```
structure"
 files = _extract_files_content(query=sample_query, node=result)
 # Convert Windows paths to Unix-style
 file paths = {f["path"].replace("\\", "/") for f in files}
 expected paths = {
 "src/subfile1.txt",
 "src/subfile2.py",
 "src/subdir/file subdir.txt",
 "src/subdir/file subdir.py",
 assert file_paths == expected_paths, "Missing or unexpected
files in result"
def test_run_ingest_query(temp_directory: Path, sample_query:
ParsedQuery) -> None:
 Test `run_ingest_query` to ensure it processes the directory and
returns expected results.
 Given a directory with .txt and .py files:
 When `run_ingest_query` is invoked,
 Then it should produce a summary string listing the files
analyzed and a combined content string.
 sample guery.local path = temp directory
 sample_query.subpath = "/"
 sample_query.type = None
 summary, _, content = run_ingest_query(sample_query)
 assert "Repository: test_user/test_repo" in summary
 assert "Files analyzed: 8" in summary
 # Check presence of key files in the content
 assert "src/subfile1.txt" in content
 assert "src/subfile2.py" in content
 assert "src/subdir/file subdir.txt" in content
 assert "src/subdir/file_subdir.py" in content
 assert "file1.txt" in content
 assert "file2.py" in content
 assert "dir1/file_dir1.txt" in content
 assert "dir2/file_dir2.txt" in content
TODO: Additional tests:
- Multiple include patterns, e.g. ["*.txt", "*.py"] or ["/src/*",
- Edge cases with weird file names or deep subdirectory
structures.
```

```
File: tests/.pylintrc

[MASTER]
init-hook=
 import sys
 sys.path.append('./src')
[MESSAGES CONTROL]
disable=missing-class-docstring,missing-function-
docstring, protected-access, fixme
[FORMAT]
max-line-length=119

File: tests/query_parser/test_git_host_agnostic.py

Tests to verify that the query parser is Git host agnostic.
These tests confirm that `parse_query` correctly identifies user/
repo pairs and canonical URLs for GitHub, GitLab,
Bitbucket, Gitea, and Codeberg, even if the host is omitted.
from typing import List
import pytest
from gitingest.query_parser import parse_query
@pytest.mark.parametrize(
 "urls, expected_user, expected_repo, expected_url",
 (
 [
 "https://github.com/tiangolo/fastapi",
 "github.com/tiangolo/fastapi",
 "tiangolo/fastapi",
],
 "tiangolo",
 "fastapi",
 "https://github.com/tiangolo/fastapi",
),
 ſ
 "https://gitlab.com/gitlab-org/gitlab-runner",
 "gitlab.com/gitlab-org/gitlab-runner",
 "gitlab-org/gitlab-runner",
],
```

```
"gitlab-org",
 "gitlab-runner",
 "https://gitlab.com/gitlab-org/gitlab-runner",
),
 [
 "https://bitbucket.org/na-dna/llm-knowledge-share",
 "bitbucket.org/na-dna/llm-knowledge-share",
 "na-dna/llm-knowledge-share",
],
 "na-dna",
 "llm-knowledge-share",
 "https://bitbucket.org/na-dna/llm-knowledge-share",
),
 "https://gitea.com/xorm/xorm",
 "gitea.com/xorm/xorm",
 "xorm/xorm",
],
 "xorm",
 "xorm",
 "https://gitea.com/xorm/xorm",
),
(
 [
 "https://codeberg.org/forgejo/forgejo",
 "codeberg.org/forgejo/forgejo",
 "forgejo/forgejo",
 "forgejo",
 "forgejo",
 "https://codeberg.org/forgejo/forgejo",
),
],
@pytest.mark.asyncio
async def test_parse_query_without_host(
 urls: List[str],
 expected user: str,
 expected_repo: str,
 expected url: str,
) -> None:
 Test `parse_query` for Git host agnosticism.
 Given multiple URL variations for the same user/repo on
different Git hosts (with or without host names):
 When `parse_query` is called with each variation,
 Then the parser should correctly identify the user, repo,
canonical URL, and other default fields.
 for url in urls:
 parsed_query = await parse_query(url, max_file_size=50,
```

```
from_web=True)
 assert parsed_query.user_name == expected_user
 assert parsed query.repo name == expected repo
 assert parsed query.url == expected url
 assert parsed_query.slug == f"{expected_user}-
{expected repo}"
 assert parsed_query.id is not None
 assert parsed_query.subpath == "/"
 assert parsed query branch is None
 assert parsed_query.commit is None
 assert parsed query type is None

File: .github/dependabot.yml

version: 2
updates:
 - package-ecosystem: "pip"
 directory: "/"
 schedule:
 interval: "daily"
 time: "06:00"
 timezone: "UTC"
 open-pull-requests-limit: 5
 labels:
 - "dependencies"
 - "pip"

File: .github/workflows/ci.yml
name: CI
on:
 push:
 branches: [main]
 pull request:
 branches: [main]
jobs:
 test:
 runs-on: ${{ matrix.os }}
 strategy:
 fail-fast: true
 matrix:
 os: [ubuntu-latest, macos-latest, windows-latest]
 python-version: ["3.8", "3.9", "3.10", "3.11", "3.12",
"3.13"]
 steps:
 - uses: actions/checkout@v4
```

```
- name: Set up Python
 uses: actions/setup-python@v5
 with:
 python-version: ${{ matrix.python-version }}
 - name: Cache pip
 uses: actions/cache@v4
 with:
 path: ~/.cache/pip
 key: ${{ runner.os }}-pip-${{ hashFiles('**/
requirements.txt') }}
 restore-keys: |
 ${{ runner.os }}-pip-
 name: Install dependencies
 run: |
 pip install --upgrade pip
 pip install -r requirements-dev.txt
 - name: Run tests
 run: |
 pytest
 # Run pre-commit only on Python 3.13 + ubuntu.
 - name: Run pre-commit hooks
 if: ${{ matrix.python-version == '3.13' && matrix.os ==
'ubuntu-latest' }}
 run: |
 pre-commit run --all-files
File: .github/workflows/publish.yml

name: "Publish to PyPI"
on:
 release:
 types: [created]
 workflow_dispatch:
jobs:
 release-build:
 runs-on: ubuntu-latest
 steps:
 - uses: actions/checkout@v4
 - uses: actions/setup-python@v5
 python-version: "3.13"
 name: Build package
 run:
 pip install build
 python -m build
```

```
- uses: actions/upload-artifact@v4
 with:
 name: dist
 path: dist/
pypi-publish:
 needs: [release-build]
 runs-on: ubuntu-latest
 environment: pypi
 permissions:
 id-token: write
 steps:
 - uses: actions/download-artifact@v4
 with:
 name: dist
 path: dist/
 - uses: pypa/gh-action-pypi-publish@release/v1
```