IT314 – Software Engineering
Group 22 – Fingenie
AI – Powered Balance Sheet Analysis Tool

Unit Testing

Team Members:

Name	Student ID
TANDEL DHRUVINEE DINESHKUMAR	202301203
MEET RUPESH GANDHI	202301219
PRIYANKA GARG	202301262
JAYADITYA SHAH	202301254
CHHABHAYA MANAN KETANBHAI	202301222
GAADHE JAYANSH MANUBHAI	202301232
VORA KRESHA MANOJBHAI	202301231
RATHOD AJAYKUMAR VALLABHBHAI	202301221
CHAUDHARI RUTU RAHUL	202301235
NAKUM AYUSH VIJAYBHAI	202301233

WE USED PYTEST FOR UNIT TESTING

For word of the day and quiz page (learning. py)

Coverage report: 100%

Files   Functions   Classes

coverage.py v7.12.0, created at 2025-11-24 14:04 +0530

File ▲	statements	missing	excluded	coverage
apps\learning__init__.py	0	0	0	100%
apps\learning\admin.py	1	0	0	100%
apps\learning\apps.py	4	0	0	100%
apps\learning\migrations__init__.py	0	0	0	100%
apps\learning\migrations\0001_initial.py	6	0	0	100%
apps\learning\migrations\0002_dailytopic_answer_explanation.py	4	0	0	100%
apps\learning\models.py	14	0	0	100%
apps\learning\test_early_models__init__.py	0	0	0	100%
apps\learning\test_early_models\test_early___str__.py	40	0	0	100%
apps\learning\test_early_models\test_early_to_dict.py	57	0	0	100%
apps\learning\test_early_views__init__.py	0	0	0	100%
apps\learning\test_early_views\test_early_get_daily_topic_view.py	203	0	0	100%
apps\learning\urls.py	3	0	0	100%
apps\learning\views.py	60	0	0	100%
Total	**392**	**0**	**0**	**100%**

coverage.py v7.12.0, created at 2025-11-24 14:04 +0530

For ai_insights

Coverage report: 100%

Files   Functions   Classes

coverage.py v7.12.0, created at 2025-11-23 20:02 +0530

File ▲	statements	missing	excluded	coverage
apps\ai_insights__init__.py	0	0	0	100%
apps\ai_insights\admin.py	1	0	0	100%
apps\ai_insights\apps.py	4	0	0	100%
apps\ai_insights\migrations__init__.py	0	0	0	100%
apps\ai_insights\models.py	1	0	0	100%
apps\ai_insights\tests__init__.py	0	0	0	100%
apps\ai_insights\tests\test_views.py	144	0	0	100%
apps\ai_insights\urls.py	3	0	0	100%
apps\ai_insights\views.py	61	0	0	100%
Total	**214**	**0**	**0**	**100%**

coverage.py v7.12.0, created at 2025-11-23 20:02 +0530

For chatbot

File ▲	statements	missing	excluded	coverage
apps\chatbot__init__.py	0	0	0	100%
apps\chatbot\admin.py	1	0	0	100%
apps\chatbot\apps.py	4	0	0	100%
apps\chatbot\migrations__init__.py	0	0	0	100%
apps\chatbot\models.py	1	0	0	100%
apps\chatbot\tests__init__.py	0	0	0	100%
apps\chatbot\tests\test_views.py	105	0	0	100%
apps\chatbot\urls.py	3	0	0	100%
apps\chatbot\views.py	56	0	0	100%
Total	**170**	**0**	**0**	**100%**

For balance sheet

File ▲	statements	missing	coverage
apps\balance_sheet_comparator\balance_sheet\comp	96	96	96%
apps\balance_sheet_comparator\balance_sheet\ratio_calculator.py	97	97	96%
apps\balance_sheet_comparator\models.py	198	198	74%
TOTAL	**516**	**71**	**86.3%**

For accounts

Coverage report: 81%

Files	Statements	Missc	Cover

coverage.py v7.12.0, created at 2025-11-28 23:09

Files	statements	Missing	Cover
apps\accounts\models.py	29	5%	81%
apps\accounts\urls\test_views.py	3	59	38%
apps\accounts\views.py	273	59	78%
TOTAL	305	59	81%

coverage.py v7.12.0, created at 2025-11-28 23:09

For news page

Coverage report: 100%

Files	Functions	Classes

coverage.py v7.12.0, created at 2025-11-24 18:29 +0530

File ▲	statements	missing	excluded	coverage
news__init__.py	0	0	0	100%
news\admin.py	1	0	0	100%
news\apps.py	4	0	0	100%
news\migrations__init__.py	0	0	0	100%
news\models.py	1	0	0	100%
news\tests__init__.py	0	0	0	100%
news\tests\test_view.py	115	0	0	100%
news\urls.py	4	0	0	100%
news\views.py	29	0	0	100%
Total	**154**	**0**	**0**	**100%**

coverage.py v7.12.0, created at 2025-11-24 18:29 +0530

For blog page

Coverage report: 100%

Files | Functions | Classes

coverage.py v7.12.0, created at 2025-11-24 23:50 +0530

File ▲	function	statements	missing	excluded	coverage
blog \ __init__.py	(no function)	0	0	0	100%
blog \ admin.py	(no function)	1	0	0	100%
blog \ apps.py	(no function)	4	0	0	100%
blog \ migrations \ __init__.py	(no function)	0	0	0	100%
blog \ migrations \ 0001_initial.py	(no function)	7	0	0	100%
blog \ migrations \ 0002_alter_blogpost_options_remove_blogpost_featured_and_more.py	(no function)	7	0	0	100%
blog \ migrations \ 0003_alter_blogpost_options_and_more.py	(no function)	6	0	0	100%
blog \ models.py	BlogPost.__str__	1	0	0	100%
blog \ models.py	BlogPost.get_author_name	1	0	0	100%
blog \ models.py	BlogPost.increment_views	3	0	0	100%
blog \ models.py	create_blog_post_activity	2	0	0	100%
blog \ models.py	create_blog_like_activity_and_update_count	4	0	0	100%
blog \ models.py	update_blog_likes_on_delete	2	0	0	100%
blog \ models.py	create_blog_bookmark_activity	2	0	0	100%
blog \ models.py	(no function)	46	0	0	100%
blog \ serializers.py	BlogPostListSerializer.get_is_liked	4	0	0	100%
blog \ serializers.py	BlogPostListSerializer.get_is_bookmarked	4	0	0	100%
blog \ serializers.py	BlogPostDetailSerializer.get_is_liked	4	0	0	100%
blog \ serializers.py	BlogPostDetailSerializer.get_is_bookmarked	4	0	0	100%

For dataprocessor

Coverage report: 71%

Files | Functions | Classes

coverage.py v7.12.0, created at 2025-11-25 11:47 +0530

File ▲	statements	missing	excluded	coverage
apps \ dataprocessor \ __init__.py	0	0	0	100%
apps \ dataprocessor \ admin.py	1	0	0	100%
apps \ dataprocessor \ ai_financial_processor.py	62	10	0	84%
apps \ dataprocessor \ apps.py	4	0	0	100%
apps \ dataprocessor \ migrations \ __init__.py	0	0	0	100%
apps \ dataprocessor \ migrations \ 0001_initial.py	6	0	0	100%
apps \ dataprocessor \ migrations \ 0002_alter_financialreport_options_and_more.py	4	0	0	100%
apps \ dataprocessor \ migrations \ 0003_rename_summary_financialreport_extracted_data_and_more.py	4	0	0	100%
apps \ dataprocessor \ migrations \ 0004_remove_financialreport_extracted_data_and_more.py	4	0	0	100%
apps \ dataprocessor \ migrations \ 0005_financialreport_ratios_financialreport_summary.py	4	0	0	100%
apps \ dataprocessor \ migrations \ 0006_financialreport_pdf_original_name_and_more.py	6	0	0	100%
apps \ dataprocessor \ models.py	109	4	0	96%
apps \ dataprocessor \ scoring.py	55	1	0	98%
apps \ dataprocessor \ services.py	218	27	0	88%
apps \ dataprocessor \ test_early_views \ __init__.py	0	0	0	100%
apps \ dataprocessor \ test_early_views \ test_early_get_report_by_id_api.py	94	94	0	0%
apps \ dataprocessor \ test_scoring.py	14	1	0	93%
apps \ dataprocessor \ urls.py	3	0	0	100%
apps \ dataprocessor \ utils_pkg \ __init__.py	0	0	0	100%
apps \ dataprocessor \ utils.py	140	80	0	43%
apps \ dataprocessor \ views.py	205	49	0	76%
Total	**933**	**266**	**0**	**71%**

For trends

Coverage report: 90%

Files   Functions   Classes

coverage.py v7.12.0, created at 2025-11-27 20:47 +0530

File ▲	statements	missing	excluded	coverage
apps \ trends \ urls.py	3	3	0	0%
apps \ trends \ views.py	662	62	11	91%
Total	**665**	**65**	**11**	**90%**

coverage.py v7.12.0, created at 2025-11-27 20:47 +0530

For sector overview

Coverage report: 29%

Files   Functions   Classes   sector_overview   —

☐ hide covered

coverage.py v7.12.0, created at 2025-11-27 22:59 +0530

File ▲	statements	missing	excluded	coverage
apps \ sector_overview \ views.py	252	10	0	96%
Total	**252**	**10**	**0**	**96%**

coverage.py v7.12.0, created at 2025-11-27 22:59 +0530

For stockgraph

```
(venv) G:\Coding\GitFingenie\Fingenie>pytest --cov=apps.stockgraph.views apps\stockgraph\tests\test_views.py
================================== test session starts ==================================
platform win32 -- Python 3.11.9, pytest-9.0.1, pluggy-1.6.0
django: version: 5.1.2, settings: fingenie_core.settings (from ini)
rootdir: G:\Coding\GitFingenie\Fingenie
configfile: pytest.ini
plugins: anyio-4.11.0, langsmith-0.4.43, cov-7.0.0, django-4.11.1, mock-3.15.1, requests-mock-1.12.1
collected 14 items

apps\stockgraph\tests\test_views.py ..............                              [100%]

=================================== tests coverage ===================================
_____ coverage: platform win32, python 3.11.9-final-0 _____

Name                         Stmts   Miss  Cover
------------------------------------------------
apps\stockgraph\views.py        45      0   100%
------------------------------------------------
TOTAL                           45      0   100%
============================== 14 passed in 6.13s ==============================
```

For company search

```
(venv) G:\Coding\GitFingenie\Fingenie>pytest --cov=apps.company_search.renderers apps\company_search\tests\test_render
ers.py
==================================== test session starts ====================================
platform win32 -- Python 3.11.9, pytest-9.0.1, pluggy-1.6.0
django: version: 5.1.2, settings: fingenie_core.settings (from ini)
rootdir: G:\Coding\GitFingenie\Fingenie
configfile: pytest.ini
plugins: anyio-4.11.0, langsmith-0.4.43, cov-7.0.0, django-4.11.1, mock-3.15.1, requests-mock-1.12.1
collected 18 items

apps\company_search\tests\test_renderers.py .................                         [100%]

==================================== tests coverage =========================================
_____ coverage: platform win32, python 3.11.9-final-0 _____

Name                               Stmts   Miss  Cover
------------------------------------------------------
apps\company_search\renderers.py      69      0   100%
------------------------------------------------------
TOTAL                                 69      0   100%
==================================== 18 passed in 0.55s =====================================

(venv) G:\Coding\GitFingenie\Fingenie>pytest --cov=apps.company_search.serializers apps\company_search\tests\test_seri
alizer.py
==================================== test session starts ====================================
platform win32 -- Python 3.11.9, pytest-9.0.1, pluggy-1.6.0
django: version: 5.1.2, settings: fingenie_core.settings (from ini)
rootdir: G:\Coding\GitFingenie\Fingenie
configfile: pytest.ini
plugins: anyio-4.11.0, langsmith-0.4.43, cov-7.0.0, django-4.11.1, mock-3.15.1, requests-mock-1.12.1
collected 22 items

apps\company_search\tests\test_serializer.py ......................                   [100%]

==================================== tests coverage =========================================
_____ coverage: platform win32, python 3.11.9-final-0 _____

Name                                 Stmts   Miss  Cover
--------------------------------------------------------
apps\company_search\serializers.py     208      0   100%
--------------------------------------------------------
TOTAL                                   208      0   100%
==================================== 22 passed in 0.63s =====================================

(venv) G:\Coding\GitFingenie\Fingenie>pytest --cov=apps.company_search.models apps\company_search\tests\test_models.py
==================================== test session starts ====================================
platform win32 -- Python 3.11.9, pytest-9.0.1, pluggy-1.6.0
django: version: 5.1.2, settings: fingenie_core.settings (from ini)
rootdir: G:\Coding\GitFingenie\Fingenie
configfile: pytest.ini
plugins: anyio-4.11.0, langsmith-0.4.43, cov-7.0.0, django-4.11.1, mock-3.15.1, requests-mock-1.12.1
collected 21 items

apps\company_search\tests\test_models.py ....................                         [100%]

==================================== tests coverage =========================================
_____ coverage: platform win32, python 3.11.9-final-0 _____

Name                             Stmts   Miss  Cover
----------------------------------------------------
apps\company_search\models.py      119      0   100%
----------------------------------------------------
TOTAL                               119      0   100%
==================================== 21 passed in 2.15s =====================================
```

```
(venv) G:\Coding\GitFingenie\Fingenie>pytest --cov=apps.company_search.utils apps\company_search\tests\test_utils.py
============================= test session starts =============================
platform win32 -- Python 3.11.9, pytest-9.0.1, pluggy-1.6.0
django: version: 5.1.2, settings: fingenie_core.settings (from ini)
rootdir: G:\Coding\GitFingenie\Fingenie
configfile: pytest.ini
plugins: anyio-4.11.0, langsmith-0.4.43, cov-7.0.0, django-4.11.1, mock-3.15.1, requests-mock-1.12.1
collected 24 items

apps\company_search\tests\test_utils.py ........................                 [100%]

============================= tests coverage =============================
_____ coverage: platform win32, python 3.11.9-final-0 _____

Name                            Stmts   Miss  Cover
----------------------------------------------------
apps\company_search\utils.py      135     30    78%
----------------------------------------------------
TOTAL                             135     30    78%
============================= 24 passed in 0.48s =============================

(venv) G:\Coding\GitFingenie\Fingenie>pytest --cov=apps.company_search.views apps\company_search\tests\test_view
s.py
============================= test session starts =============================
platform win32 -- Python 3.11.9, pytest-9.0.1, pluggy-1.6.0
django: version: 5.1.2, settings: fingenie_core.settings (from ini)
rootdir: G:\Coding\GitFingenie\Fingenie
configfile: pytest.ini
plugins: anyio-4.11.0, langsmith-0.4.43, cov-7.0.0, django-4.11.1, mock-3.15.1, timeout-2.4.0, requests-mock-1.1
2.1
collected 36 items

apps\company_search\tests\test_views.py .....................................   [100%]

============================= tests coverage =============================
_____ coverage: platform win32, python 3.11.9-final-0 _____

Name                            Stmts   Miss  Cover
----------------------------------------------------
apps\company_search\views.py     1135    316    72%
----------------------------------------------------
TOTAL                            1135    316    72%
============================= 36 passed in 9.11s =============================

(venv) G:\Coding\GitFingenie\Fingenie>pytest --cov=apps.company_search.views apps\company_search\tests\test_view
s.py
============================= test session starts =============================
platform win32 -- Python 3.11.9, pytest-9.0.1, pluggy-1.6.0
django: version: 5.1.2, settings: fingenie_core.settings (from ini)
rootdir: G:\Coding\GitFingenie\Fingenie
configfile: pytest.ini
plugins: anyio-4.11.0, langsmith-0.4.43, cov-7.0.0, django-4.11.1, mock-3.15.1, timeout-2.4.0, requests-mock-1.1
2.1
collected 36 items

apps\company_search\tests\test_views.py .....................................   [100%]

============================= tests coverage =============================
_____ coverage: platform win32, python 3.11.9-final-0 _____

Name                            Stmts   Miss  Cover
----------------------------------------------------
apps\company_search\views.py     1135    316    72%
----------------------------------------------------
TOTAL                            1135    316    72%
============================= 36 passed in 9.11s =============================
```