



Formerly DA-IICT

IT314 - Software Engineering Group - 20

Mutation Testing



KRUSHISETU
PATH TO PROSPERITY

Assigned by :
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Mutation Testing - Backend

1. photo

```
PS C:\Users\Jeel Prajapati\OneDrive\Desktop\Backend_Testing\Krushisetu\back> mutmut run --paths-to-mutate=photo --use-coverage
>>

- Mutation testing starting -

These are the steps:
1. A full test suite run will be made to make sure we
   can run the tests successfully and we know how long
   it takes (to detect infinite loops for example)
2. Mutants will be generated and checked

Results are stored in .mutmut-cache.
Print found mutants with `mutmut results`.

Legend for output:
🌟 Killed mutants. The goal is for everything to end up in this bucket.
⏰ Timeout. Test suite took 10 times as long as the baseline so were killed.
⌚ Suspicious. Tests took a long time, but not long enough to be fatal.
🚀 Survived. This means your tests need to be expanded.
⏩ Skipped. Skipped.

1. Using cached time for baseline tests, to run baseline again delete the cache file
2. Checking mutants
:: 908/908 🌟 499 ⏪ 0 ⌚ 12 🚀 397 ⏵ 0
```

2. Support

```
Ran 35 tests in 126.574s

OK
Destroying test database for alias 'default'...
2025-11-29 00:46:54,498: CLI Report:

Mutatest diagnostic summary
=====
- Source location: C:\Users\jaypa\Desktop\Software E\Project\KrushiSetu\back\support\views.py
- Test commands: ['python', 'manage.py', 'test', 'support']
- Mode: s
- Excluded files: []
- N locations input: 31
- Random seed: 314

Random sample details
-----
- Total locations mutated: 31
- Total locations identified: 31
- Location sample coverage: 100.00 %

Running time details
-----
- Clean trial 1 run time: 0:01:52.479840
- Clean trial 2 run time: 0:02:11.444988
- Mutation trials total run time: 0:01:01.360334

2025-11-29 00:46:54,499: Trial Summary Report:

Overall mutation trial summary
=====
- DETECTED: 98
- TOTAL RUNS: 98
- RUN DATETIME: 2025-11-29 00:46:54.496928

2025-11-29 00:46:54,499: Detected mutations:

DETECTED
```