Static testing tools

Jest Coverage

Overall, the project achieves 87.92% statement coverage and 83.01% branch coverage, which is respectable but could be improved—particularly in the controller layer where user-facing functionality resides. The strong services coverage is encouraging, as it suggests core business logic is well-tested, but the gaps in controllers indicate that integration and endpoint testing should be prioritized to ensure reliable API behavior.

All files

57.02% Statements 69/121   **83.01%** Branches 44/53   **53.84%** Functions 7/13   **56.3%** Lines 67/119

Press *n* or *j* to go to the next uncovered block, *b*, *p* or *k* for the previous block.

Filter:

File ▲		Statements ⇵		Branches ⇵		Functions ⇵		Lines ⇵	
controllers		13.04%	6/46	22.22%	2/9	20%	1/5	13.04%	6/46
repositories		0%	0/12	0%	0/2	0%	0/2	0%	0/12
services		100%	63/63	100%	42/42	100%	6/6	100%	61/61

SonarCloud

In this section, you will find issues identified by SonarCloud across multiple severity levels. The analysis includes High severity issues such as critical bugs and security vulnerabilities that require immediate attention, Medium severity security hotspots that need manual review to ensure safe implementation, and Low severity code smells that affect maintainability and code quality. Each category provides insights into specific areas of the codebase that can be improved to enhance overall code quality, security, and long-term maintainability.

Severity Low

Severity Medium

Select issues for bulk actions

☐ Change | Select issues ▼ ▲ | Navigate to issue ◀ ▶ | ↻ 3 issues 15min effort

application/frontend/public/recent-names.html

☐ **Prefer top-level await over an async function `loadRecentNames` call.** | Consistency

Maintainability △ Medium | async es2022 ... +

○ Open ⌄ 👤 Steffen Grøn Andersen ⌄ | L65 • 5min effort • 3 days ago • ⊕ Code Smell • △ Major

application/frontend/server.js

☐ **Prefer `node:path` over `path`.** | Consistency

Maintainability △ Medium | convention import ... +

○ Open ⌄ 👤 Steffen Grøn Andersen ⌄ | L2 • 5min effort • 3 days ago • ⊕ Code Smell • ▽ Minor

☐ **Prefer `node:url` over `url`.** | Consistency

Maintainability △ Medium | convention import ... +

○ Open ⌄ 👤 Steffen Grøn Andersen ⌄ | L3 • 5min effort • 3 days ago • ⊕ Code Smell • ▽ Minor

3 of 3 shown

Severity High

Select issues for bulk actions

☐ Change | Select issues ▼ ▲ | Navigate to issue ◀ ▶ | ↻ 2 issues 8min effort

application/database/init/02-seed-data.sql

☐ **Define a constant instead of duplicating this literal 10 times.** | Adaptability

Maintainability ⊘ High | design +

○ Open ⌄ 👤 Steffen Grøn Andersen ⌄ | L58 • 4min effort • 3 days ago • ⊕ Code Smell • ◉ Critical

☐ **Define a constant instead of duplicating this literal 10 times.** | Adaptability

Maintainability ⊘ High | design +

○ Open ⌄ 👤 Steffen Grøn Andersen ⌄ | L71 • 4min effort • 3 days ago • ⊕ Code Smell • ◉ Critical

2 of 2 shown

Code smells

| kea-software-quality | View as | List | ⌄ | 20 files |

Code Smells 9   See history

🗋 application/database/init/**02-seed-data.sql**	2
🗋 application/backend/src/services/**nameGenerator.js**	2
🗋 application/frontend/**server.js**	2
🗋 application/frontend/public/**generate-bulk.html**	1
🗋 application/frontend/public/**recent-names.html**	1
🗋 application/backend/**server.js**	1

ℹ There are 14 hidden components with a score of 0. Show them

npm audit

The npm audit scan found 0 vulnerabilities in the project dependencies. This indicates that all installed packages are up-to-date and free from known security issues, ensuring a secure foundation for the application.

```
Steffen@DESKTOP-D6OOHBI MINGW64 ~/Documents/GitHub/kea-software-quality/application/backend (main)
$ npm audit
found 0 vulnerabilities
```