

Code Review: Laserschnitt (21.02.2022)

1. About the code:

Associated user stories:

032_Laserschnitt_Auftrag_Bestätigen

063_Laserschnitt_Bugfixes

Iteration reviewed: 5

Code authors: Simon

Reviewed by: Simon, Jannik

Date: 21.02.2022

Language: Python, Javascript, HTML

Files: api/views.py, client/views.py, client/static/produktauswahl/laserschnitt/app.js,
client/templates/produktauswahl/produktauswahl_laserschnitt.html,
client/templates/include/laserschnitt/card.html

2. Automated inspections:

- ☐ Code has no static type checking errors
- ☒ ~~The code starts without errors~~
- ☒ ~~The code starts without warnings~~
- ☒ ~~The code is kept under source control~~

Testing:

- ☐ Tests cover edge cases
- ☐ Test have been peer reviewed
- ☐ All inputs are sanitised and validated
- ☐ There are unit tests
 - ☐ They are sufficient
 - ☐ The code passes them
- ☒ ~~There are manual tests~~
 - ☐ The code passes them

3. Design

☐ The code is complete (according to its associated user stories)

☒ ~~Code performance is acceptable~~

☒ ~~Any missing functionality is marked clearly in the code~~

Maintainability:

☐ The code is easy to read

☒ ~~The code method/class is not too long~~

☒ ~~The code is well structured~~

☐ There is design documentation

☐ The code matches the documentation

Best practices:

☒ ~~There is a reasonable amount of comments (only relevant comments)~~

☒ ~~No magic values (at least no undocumented ones)~~

4. General code comments:

Style:

☒ ~~The code layout is clear~~

☒ ~~It follows project style guidelines~~

☒ ~~There is a good choice of names~~

Defensive programming:

☒ ~~There is a correct choice of types/datastructures~~

☐ All input is validated

Error handling:

☐ Error conditions are routinely handled

Structure:

☒ ~~There is no redundant code~~

☒ ~~There is no copy paste programming~~

5. Statement-level review

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| | | |
|--|--|--|

| File | Line | Issue |
|--|------|--|
| api/views.py | 158 | missing validation of some input values |
| api/views.py | 172 | uses fixed size values (`size_width`, `size_height`) |
| client/templates/produktauswahl/produktauswahl_laserschnitt.html | 70 | placeholder text |

6. Follow-up

Conclusion:

☐ Code OK

☒ ~~Rework and verify~~

☐ Rework and re-review

- Fix problems mentioned in Statement-level review
- Improve server-side input validation
- Fix static type checking issues after models are refactored
- Refactor backend functionality to improve readability and maintainability

Record the outcome of the review here:

- Fixed Statement-level review problems
- Reworked code, improving the passing of data between frontend and backend, and enhancing the structure of the code itself
- Adapted code to new models, cleaning up now obsolete parts of the code
- Fixed server-side input validation and slightly improved client-side validation as well

Complete work by: Simon Jungherz