

Bachelor's Thesis Assignment



156937

Institut: Department of Intelligent Systems (DITS)
Student: **Bubáková Natália**
Programme: Information Technology
Title: **Extension of the tmt Tool for Reporting through the ReportPortal API**
Category: Software analysis and testing
Academic year: 2023/24

Assignment:

1. Study the field of the test management. Investigate *tmt* tool for test management. Focus on the way *tmt* reports results of the executed tests. Investigate *ReportPortal*, a tool for reporting and managing test results. Focus on the tool's API which allows other tools to report their results.
2. Analyse the requirements of automated reporting of test results. Propose and design an extension of the *tmt* which will enable reporting to the *ReportPortal*.
3. Implement the proposed solution as a new *tmt* plugin.
4. Evaluate the implemented plugin on different test suites managed by *tmt*.

Literature:

- Homepage of tmt tool: <https://github.com/teemtee/tmt>
- Documentation of tmt tool: <https://tmt.readthedocs.io/en/stable/>
- O. Dubaj. *Systém pro správu výsledků testů doplňující nástroj tmt*. Brno, 2021. Master thesis. FIT BUT.

Requirements for the semestral defence:
The first two points.

Detailed formal requirements can be found at <https://www.fit.vut.cz/study/theses/>

Supervisor: **Smrčka Aleš, Ing., Ph.D.**
Head of Department: Hanáček Petr, doc. Dr. Ing.
Beginning of work: 1.11.2023
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