



# Quality Testing Concepts

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## **Bachelor Thesis**

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## **Bachelor of Science (B.Sc.)**

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# 1. Einleitung

## 1.1. Motivation

2020 was jinxed. The Covid-19 pandemic changed how our lives work. It has presented the globalised world with little anticipated challenges and we can feel its influence almost everywhere. In order to reduce the amount of human contacts as much as possible, every aspect of human interaction was evaluated for its digitizability. However: We were all forced to witness, that our digital infracstructe is most obiously not yet up to the task of enabling us to *live the remote life*.

Most of the fundamental problems were trivialities, like missing webcams or a too slow internet connections. Where such were taken care of, the harder-to-fix problems came to light. Problems like inadequately educated overtaxed personnel and missing software solutions, that comply with european digital privacy regulation. Even though at first glance the personnel problems don't seem to matter much to software developers, it are still problems, which can and will be resolved by them.

I don't want to claim, that the digitization of everyday life was a complete failure though. Like me, most office workers were able to migrate to home office without much fuss. Still: Living the life of a remote student for half a year, definitely motivates me, to spend some thought on how to make e-teaching a little better.

Even though it proved hazardous sometimes, working with existing e-teaching tools made me realize, what huge potential lies within a properly digitized higher eduaction. Such would not only help temper the effects emergencies, like the covid pandemic, have on university life, but will also be a powerful tool in futureproofing universities for the challenges of rising student numbers in the years to come.

Intelligent-Teaching-Systems like INLOOM, will make the increased workload manageable for university personnel. Developers are required to produce software that is as intuitive as possible, provides a decent grade of digital security, complies with privacy regulations, handles high traffic without complain and all that, while providing an unquestionably accurate and fair environment for everyone involved.

Integrating digital resources into the workflow seamlessly, will enable teaching personnel to still be able to focus on the individual student, when the student groups they teach become way bigger, than they are today - That, in the end, could be the only way to keep higher education as we know it affordable. By contributing to INLOOM, I contribute to digitizing education.

## 1.2. Research Questions

## **A. Weitere Latex-Dokumentation**

### Statement of authorship

I hereby certify that I have authored this Bachelor Thesis entitled *Quality Testing Concepts* independently and without undue assistance from third parties. No other than the resources and references indicated in this thesis have been used. I have marked both literal and accordingly adopted quotations as such. There were no additional persons involved in the intellectual preparation of the present thesis. I am aware that violations of this declaration may lead to subsequent withdrawal of the degree.

Dresden, 5th February 2021

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