

DIPLOMA THESIS

Documentation

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| Author(s) | Gabriel Herbei, Andre Karner, Stephan Dietmair |
| Form, academic year | 5BHWIN, 2025/26 |
| Topic | Inventory of QR codes |
| Co-operation partners | HTL Leoben |

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| Assignment of tasks | At our school, objects, tools and IT hardware such as monitors and projectors are currently inventoried manually using Excel spreadsheets. This process is time-consuming, confusing and error-prone. This thesis examines how digital inventory solutions can reduce this effort. To this end, various systems are researched and compared with each other. Based on this analysis, a practical solution will be developed, tested and documented for use at our school. At the same time, a project manual will be kept and quality control will be carried out to assess the technical feasibility and suitability for everyday use. |
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| Realisation | |
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| Results | A practical, web-based solution for inventorying school equipment using QR codes. In addition, documentation and a project manual will be produced to record the development process and test results. |
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Illustrative graph, photo
(incl. explanation)



The illustration shows a typical QR code attached to a school monitor. This QR code contains a unique device ID which, when scanned with a mobile device, enables the monitor to be automatically recorded in the inventory solution.

Participation in competitions
Awards

Accessibility of the
Diploma Thesis

Approval
(Date / Signature)

Examiner

Head of College