SCHOOL OF COMPUTATION,
INFORMATION AND TECHNOLOGY

TECHNISCHE UNIVERSITÄT MÜNCHEN

Bachelor's Thesis in Information Systems

Thesis title

Marco Lutz

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From UI Images to Accessible Code: Leveraging LLMs for Automated Frontend Generation

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I confirm that this bachelor's thesis in information systems is my own work and I have documented all sources and material used.

Munich, 11.08.2025 Marco Lutz

Acknowledgments

Abstract

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1 Introduction

1.1 Section

The creation of Websites or user interfaces (UIs) normally follows a similar pattern. First UI designs are created with the help of special design tools. Those UI designs or images present the

1.1.1 Subsection

Citation test [Lam94]. See Table 1.1, Figure 1.1, Figure 1.2, Figure 1.3.

Table 1.1: An example for a simple table.

A	B	C	D
1	2	1	2
2	3	2	3

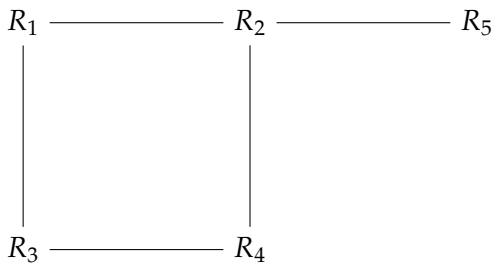

Figure 1.1: An example for a simple drawing.

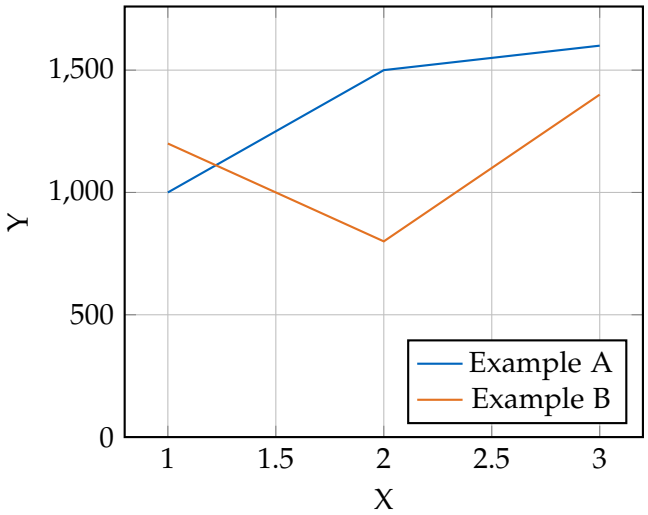

Figure 1.2: An example for a simple plot.

```
SELECT * FROM tbl WHERE tbl.str = "str"
```

Figure 1.3: An example for a source code listing.

2 Dataset

2.1 Section

2.1.1 Subsection

3 Benchmarks

3.1 Section

3.1.1 Subsection

4 Experiment

4.1 Section

4.1.1 Subsection

5 Accessibility

5.1 Section

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6 Results and Analysis

6.1 Section

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7 Related Work

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8 Conclusion

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Bibliography

[Lam94] L. Lamport. *LaTeX : A Documentation Preparation System User's Guide and Reference Manual*. Addison-Wesley Professional, 1994.