

CJ1 Report

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Web App that Generates Electric Circuit LaTeX Code

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CJ1 Report based on the examination and study regulations
for the Bachelor of Engineering degree programme

Bachelor of Science Information Engineering

at the Department of Information and Electrical Engineering
of the Faculty of Engineering and Computer Science
of the University of Applied Sciences Hamburg

Supervising examiner: Prof. Dr.-Ing. Martin Lapke

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Title of Project

Web App that Generates Electric Circuit LaTeX Code

Keywords

Life, Universe, Everything

Abstract

Arthur Dents travel to a new future ...

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Thema des Projekts

Web-App, die LaTeX-Code für elektrische Schaltkreise generiert

Stichworte

Leben, Universum, Alles

Kurzzusammenfassung

Arthur Dents Reise in eine neue Zukunft ...

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1 Introduction

We forked the *draw.io* software by JGraph Ltd [?].

1.1 Phases

This project execution was divided into three distinct phases:

1. **Phase 1:** Team of four.
2. **Phase 2:** Agile (Scrum) with three-member team.
3. **Phase 3:** Replace Agile with Project Management Lite [?].

1.1.1 Phase 1

This project began around October 2021 with a team of four students. After beginning the project, Frances Joy Poblete disenrolled from HAW. Her disenrollment caused the team to reevaluate the scope of the project.

1.1.2 Phase 2

Follow Ms. Poblete's disenrollment, the remaining team members decided to adopt an Agile (Scrum) approach to project management.

1.1.3 Phase 3

2 Requirements Analysis

sadf

2.1 User Stories

There were two viable user stories for this project:

1. As a *researcher/student/educator/engineer*, I want to draw circuits for \LaTeX documents using a GUI so that I can draw the circuits more quickly than I can code them.
2. As a *researcher/student/educator/engineer*, I want to draw circuits for \LaTeX documents using a GUI so that I do not need to be a \LaTeX *expert* to draw circuits.

Since any person who is writing a \LaTeX document must have some level of coding knowledge, expecting users to slightly modify circuit code is a reasonable expectation. Therefore, the following user story was considered, but ultimately not included in the planning process:

- As a *researcher/student/educator/engineer*, I want to draw circuits for \LaTeX documents using a GUI so that I do not require any \LaTeX knowledge.

2.2 Other test

dssg

A Appendix: Project Charter

Project Name

Web App that Generates Electric Circuit LaTeX Code

Project Manager

Andre Alves

Sponsor

HAW Hamburg

Customer

Prof. Dr.-Ing. Martin Lapke

Timeframe

Start: End: 2022-01-01

Known Critical Constraints

Time

Money

€400

People

Reason for the Project

Drawing circuits with \LaTeX is difficult due to the coding requirements. It is much easier to draw those circuits in a GUI.

Project Goal

Complete a program that allows users to obtain \LaTeX code that represents the circuit they draw using a GUI.

What's Considered Done

- Users are able to draw basic circuits using a GUI.
- The app converts the circuit into \LaTeX code.

Milestones/Deliverables

Milestone	Deliverable	Due Date
1	2	3

Risks

What could go wrong	Chances of it happening	Impact if it does happen	What should be done about it
1	2	3	4

B Appendix: Project Plan

Task	Assigned To	Start	End	Status
sdasdfadfgawgawgasdg as- dgasdgasdgasdgasdgasdg	AAA	YY-MM-DD	YY-MM-DD	Completed

C Appendix: Lessons Learned

The following are lessons learned during each step of the project, divided by steps.

Define what you're trying to do

Come up with a plan to do it

Get focused

Make sure the work gets done

Handle the problems

Deal with any changes

Keep everyone informed

Manage the team

Wrap it up

Celebrate

Declaration

We declare that this CJ1 Project has been completed by ourselves independently without outside help and only the defined sources and study aids were used.

_____	_____	_____
City	Date	Signature

_____	_____	_____
City	Date	Signature

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City	Date	Signature