Titel der Diplomarbeit

Dein Name

November 10, 2024

Abstract

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Kurzfassung

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Contents

Abstract															
Kurzfassung															
1	Introduction														
	1.1	Short description	4												
	1.2	Description of performed work	4												
	1.3	Methodology of the thesis	5												
2	Main														
	2.1	Tech Stack	7												
		2.1.1 PostgreSQL	7												
		2.1.2 node.js	7												
		2.1.3 Sequelize	7												
		2.1.4 express	7												
		2.1.5 React	7												
		2.1.6 PWA	7												
	2.2	Database	7												
	2.3	Login	7												
	2.4	Single choice	7												
	2.5	Multiple choice	7												
	2.6	Weighted choice	7												
	2.7	Disclosing votes	7												
	2.8	Exporting results	7												
3	Sun	nmary	8												

Chapter 1

Introduction

Link Gliederung: https://www.diplomarbeiten-bbs.at/durchfuehrung/gliederung-der-diplomarbeit-und-formale-vorgaben

1.1 Short description

The topic of this diploma thesis is creating a platform which supports different voting options like single, multiple or weighted choice. Additionally there should be a Login system with different roles to administer and create or delete polls and one where the user can simply vote for the polls he's included in. Furthermore there an option to disclose the results and who voted for which answers. The database should run on a remote server and be accessed by an API.

The reason we chose this topic is because our supervisor is part of the LMP party and they couldn't find an appropriate platform to vote on party intern problems and topics. Hence he approached us and suggested we write our diploma thesis on a voting platform.

1.2 Description of performed work

Our aim is to provide a website where different organizations can create and publish polls for their members. Since our finished work will be open source, everyone who wants to create polls will benefit from our work.

We chose to accept the LMP as our partner, because they brought up that there isn't a platform that supports all the features they need. Moreover can they give us feedback of the real life application so we can adjust the features to a user organization. During the development of our work we had monthly meetings with the LMP to discuss the progress. Because we decided

to develop our software in an agile way the discussions we had with them also helped so we could focus on the more important features first and implement elements of lesser importance later.

1.3 Methodology of the thesis

At first we had to decide on a tech stack. After careful consideration we decided upon a PostgreSQL database, a backend of node.js, sequelize to perform database operations and express to write APIs so we can connect with our frontend. Our frontend is based on React and we also included a PWA. After this decision we began with a simple input and output from front- to backend so ensure we all understood how each part is connected to each other. The next step was implementing the first features. We split the elements in different components so we could work separately and efficiently, e.g the single choice is split in create the poll, display the poll, vote, and show the results. Reasons we chose this tech stack and a thorough description of each function our work has will be in the main part.



Figure 1.1: Hier ist ein Bier

Chapter 2

Main

- 2.1 Tech Stack
- 2.1.1 PostgreSQL
- 2.1.2 node.js
- 2.1.3 Sequelize
- 2.1.4 express
- 2.1.5 React
- 2.1.6 PWA
- 2.2 Database
- 2.3 Login
- 2.4 Single choice
- 2.5 Multiple choice
- 2.6 Weighted choice
- 2.7 Disclosing votes
- 2.8 Exporting results

Chapter 3

Summary

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Hier ein Zitat aus einer Quelle [author2023example].

List of Figures

1.1	Hier ist ein Bier														5	,)