



Glühende Colt WebApp

Procedure

1. UI and the design was created, it is important that everything is user friendly and responsive.
2. Backend built and the first API calls set up
3. Database set up
4. The backend is connected to the database and functions are created that will be called in the frontend.
5. The API is built on the server side that calls these functions to be able to use them in the frontend.
6. The frontend logic is built
7. Details rework (error detection etc.)
8. WebApp is thoroughly tested.

Database structure

- The database is kept very simple as it is sufficient for all functions of the app, therefore no ER model is necessary or useful.
- It contains a single table named "users"

users	
ID (PK)	INTEGER
name	VARCHAR
lastName	VARCHAR
birthdate	DATE
registerDate	DATE
sex	INTEGER
department	VARCHAR
visitsTimestamps	VARCHAR
notes	VARCHAR

Technology used (Node.js , React, Material-UI, SQLite, express-js)

Node.js is a JavaScript runtime environment based on Chrome's V8 JavaScript engine.

React is a JavaScript library for building user interfaces.

React was released by Facebook in 2013 and is used by many big names (WhatsApp, Instagram, Tesla...). It is responsible for the logic and the interface.

Material-UI includes React components for faster and easier web development. As a result, we get a beautiful and optimized user interface.

Material-UI is a version of "Material-Design" created for React.

Material-Design is a design standard invented by Google.

SQLite is a C language library that implements a small, fast, self-contained, highly reliable and fully functional SQL database engine. SQLite is the most widely used database engine in the world. SQLite is built into all cell phones and most computers, and is included in countless other applications that people use every day.

express-js is a simple and flexible Node.js framework of web applications that provides many powerful features and functions for web applications and mobile applications.

The WebApp contains the following features:

- The following information is viewable and modifiable:
 - First name, last name
 - Birthdate
 - Registration date
 - Gender
 - Department (bow / air pressure / firearm)
 - Attendances
 - Monthly Payments
 - Notes for each Member
- The following functions can be easily operated in the app:
 - Create members
 - Edit Members
 - View information
 - Enter presences at the push of a button

Time spent

Task	Time (in hours)
Ui / Design	15 h
Backend	10 h
Frontend + Logik	25 h
Database	2 h
Documentation	3 h

total hours	55 h
total(45€/hour)	2.475,00 €



Glühende Colt

Rechnung



Glühende Colt

Stammgruppe LBJL

RECHNUNG

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Invoice to::

Glühende Colt Schützenverein

Date: Apr 11, 2021

Due Date: Apr 11, 2021

Saldo fällig: 2.945,25 €

Tasks	Hours	Pro Stunde	Amount
UI / Design - Glühende Colt WebApp	15	45,00 €	675,00 €
Backend - Glühende Colt WebApp	10	45,00 €	450,00 €
Frontend + Logik - Glühende Colt WebApp	25	45,00 €	1.125,00 €
Database - Glühende Colt WebApp	2	45,00 €	90,00 €
Documentation - Glühende Colt WebApp	3	45,00 €	135,00 €

Subtotal: 2.475,00 €

MwSt (19%): 470,25 €

total: 2.945,25 €