

Project proposal

Link to the project's GitHub repo: <https://github.com/tboth/rust-course-final-project/>

Participating students:

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Project overview and main goals

The main goal of this project is to create a full stack web app for managing blog posts. This app will be a CRUD web app, with some custom business logic. By doing this project, we want to learn the basics of modern web development in Rust and want to get a general overview of the currently available tools - writing a REST API for the backend, managing SQL databases with ORM and creating a template-based frontend.

Main goals (functional requirements for the app):

- Visitors will be able to read blog posts and choose blog posts from an aggregated list, similar to popular blogging platforms (e.g. medium.com)
- Editors will be able to login in, create accounts, create, update and delete blog posts
- Visitors can filter blog posts based on predefined topic or author
- Blog posts will contain a title, text divided into sections (mandatory) and pictures (optional), and a topic (at least one is mandatory)
- All user data and blog posts will be stored in an SQL DBMS

Public crates we are planning to use

- **Rocket framework** - backend - <https://rocket.rs/>
- **Templates in Rocket** for frontend - https://api.rocket.rs/v0.4/rocket_contrib/templates/index.html
- **Rocket session store** - authentication - https://docs.rs/rocket-session-store/latest/rocket_session_store/
- **Diesel** - ORM - <https://diesel.rs/>

Basic architecture diagram

