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Timesheet

Timesheet to demonstrate my learning and making to complete my project.

Week 1

- Course: 4h
- Learning on a small react project I made using rust backend: 2h

Week 2

- Conversation with instructor to discuss project: 20m
- Working on a mini library for JWT tokens later to be used in my project: 4h
- Working on a mini library for JWT tokens and my models: 3h
- Working on a working database connection between and models: 1h30

Week 3

- Conversation with instructor to discuss project: 10m
- Working on database models(adding some constraints), adding errors and some utilities(regex, random hash giver) to use: 4h
- Working on enumeration problem: 1h
- Working on problems related to enums, this is difficult between the diesel orm and the database: 2h30
- Working on my models and making database insertable structs for them: 1h30

Week 4

- Conversation with instructor to discuss project: 10m
- Working on the data access layer(focused on the user): 3h
- Working on my data access layer: 3h

- Working on jwt configuration, data access layer and setting up the basic project for the service authentication: 2h
- Working on my service layer and adjusting my data access layer: 4h
- Working on the service layer and a little bit on my models: 1h
- Working on my business layer for the authentication service and a little bit on my data access layer: 2h
- Working on my business layer and error handling: 3h
- Working on my web layer and on the errors: 1h30
- Working a bit on my models: 20m
- Working on my business layer and a bit on my web layer for my authentication service: 2h

Week 5

- Conversation with instructor to discuss project: 10m
- Working on my business layer, web layer and fixing problems with sending emails: 4h30
- Working primarily on the web layer: 2h30
- Working on my web layer for identification and HTTPS2: 1h
- Working on my web layer(https, cors) and beginning my react app: 3h
- Working on my web layer and react app, troubleshooting errors and cors: 4h
- Working on my web layer and react app, solving errors: 3h
- Working on my react app, trying to learn functional hooks: 2h
- Working on login problem, was resolved: 1h
- Working on my web layer and react app: 2h30
- Working on problems related to cookies: 2h
- Working on my web layer to make the cookies stay until their max age is reached and also on my react app: 3h

Week 6

- Working on my web layer and meeting with instructor: 1h15
- Working on my web layer and react app, focusing on retrieval of forgotten password: 2h45
- Working on my react app, web layer and service layer: 2h30
- Working on my react app, web layer. Solve problems related to middleware and jwt token in private cookies: 5h
- Working on my web, service layer and my react app. Trying to solve problems related to credential middleware and changing passwords: 3h30
- Working a bit on my react app: 25min
- Working on my api and react app, finish up the auth service: 1h30
- Learning to use the context api from react: 2h
- Beginning to transition my session in my react app to more react hooks

and context api management: 2h30

- Working on state management within my react app, and working a bit on the cors side of my web api: 2h25
- Working on my react app and converting a class to function: 50min
- Working on my react app fixing bugs in it, testing my api and app on linux: 1h
- Working on my web layer and beginning with my business service and api for my storages and products: 1h15
- Working on my business and web business micro service: 1h
- Working on my storage logic and storage dialogs: 4h
- Working on my react application, to add and remove storages: 4h

Week 7

- Working on my react layout: 2h
- Working on my auth web service and my react app: 1h30
- Working on my service worker: 2h15
- Working on my service worker: 3h
- Working on my service worker and working on updating storages: 3h30
- Working on my react app, working on the DAL of my api to implement some CRUD features: 4h
- Working on my DAL and business service layer for my api: 1h30
- Working on my business api and react app for the products page: 1h45
- Working on my routes within my backend api and repaire the product routing: 45min
- Refactoring git repo, and my react app. Working on my react app: 2h

Week 8

- Working on my react app and discussing with instructor: 1h30
- Working on my react app and trying to solve problems related to date serialization: 3h15
- Problem related to a custom sql query to try to solve an insert: 3h30
- Making dockerfiles for my services and nginx: 10m
- Working on delete and add feature for products in my api and frontend: 1h30
- Working on my react app, the home page of an authenticated user and the nav bar: 1h
- Working on bugs in my react app having to do with crud operations not resulting in proper UI changes and I worked on my backend to be able to update products: 1h

Week 9

- Convert android drawables from the previous android project to svg icons: 10m
- Updating feature for products in storages: 1h30
- Working on my react app and backend to show the 5 oldest products of an user: 3h
- Working on setting icons on my web app: 30min
- Working react app: 2h30
- Working on the usability of my app: 20min

Week 10

- Working on my production config, in my react app and docker-compose.yml: 2h20

Christmas vacation

- Trying to deploy my app with docker and docker-compose, didn't succeed problems with ports, volumes and build of rust app: 23h20
- Solving bugs related to the deployment to production of the webapp and api: 6h
- Solving bugs related to deployment and writing, recording application and code overview: 7h
- Working on some features related to the offline experience: 5h40
- Working on some UI of my app: 1h
- Working on documentation: 3h45
- Working on documentation: 13h00 -

Deployment problems

Errors I had:

- Cannot deploy a volume on the root of a container.
- Cannot deploy a container whose port is already being listened to.
- Rust build of the authentication service fails on my vps but not on my linux desktop.
- Rust building of Authentication service error message: *process didn't exit successfully: rustc --crate-name xam_xam_id_web --edition=2018 src/main.rs --error-format=json --json=diagnostic-rendered-ansi --crate-type bin --emit=dep-info,link -C opt-level=z -C panic=abort -C lto -C codegen-units=1 -C metadata=1de7fef8615bf336 -C extra-filename=1de7fef8615bf336 --out-dir /xam-xam-id-web/target/release/deps -L*

```

dependency=/xam-xam-id-web/target/release/deps --extern actix_cors=/xam-
xam-id-web/target/release/deps/libactix_cors-d9df84cc0c22cf5b.rlib --
extern actix_identity=/xam-xam-id-web/target/release/deps/libactix_identity-
679ab82e63f83f3d.rlib --extern actix_web=/xam-xam-id-web/target/release/deps/libactix_web-
02e91e66f8948eb7.rlib --extern actix_web_httpauth=/xam-xam-id-
web/target/release/deps/libactix_web_httpauth-a31192eda17bb5b4.rlib
--extern futures_util=/xam-xam-id-web/target/release/deps/libfutures_util-
51c5483afad7606b.rlib --extern jwt_gang=/xam-xam-id-web/target/release/deps/libjwt_gang-
ef8c9d7b564d53ef.rlib --extern log=/xam-xam-id-web/target/release/deps/liblog-
9f954c959ce6348b.rlib --extern log4rs=/xam-xam-id-web/target/release/deps/liblog4rs-
561ae4aa8ca33383.rlib --extern mailgang=/xam-xam-id-web/target/release/deps/libmailgang-
c317905a00803e87.rlib --extern rustls=/xam-xam-id-web/target/release/deps/librustls-
02e9145bfe52ad91.rlib --extern xam_xam_common=/xam-xam-id-
web/target/release/deps/libxam_xam_common-378dec558d999979.rlib --
extern xam_xam_id_bll=/xam-xam-id-web/target/release/deps/libxam_xam_id_bll-
ee123005831b19df.rlib -L native=/xam-xam-id-web/target/release/build/ring-
287f767d5dbcec7c/out -L native=/xam-xam-id-web/target/release/build/brotli-
sys-69dd56223ff5bb19/out -L native=/usr/lib/x86_64-linux-gnu (signal: 9,
SIGKILL: kill)

```

- Another docker compose error linked to SSL certificates: *error while loading shared libraries: libssl.so.1.1: cannot open shared object file: No such file or directory*
- Open ports on the linux instance.
- Make sure you map correctly ports to the ports of your api.
- Make sure the smtp domain that you configure is right, an error I overlooked quite easily.
- Make sure you ca certificates are there or you will get the next error: *error:1416F086:SSL routines:tls_process_server_certificate:certificate verify failed:../ssl/statem/statem_clnt.c:1245: (unable to get local issuer certificate)*
- Make sure that the timezone and ntp server is okay on your VPS to not get certificate errors.