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| Title:  Database for developers |
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# Problem description

The project consists in the implementation of a web shop. For a little bit of personalization and fun we decided to create a game web shop that sells computer games on DVDs.

Relational database

The database stores products, of which register their name, description, unit price and existing stock. When a user registers a purchase, an invoice is generated. The database stores the date the invoice is issued, its applicable tax, the total monetary amount, the credit card with which the user paid, and the list of products purchased, including the quantity and the unit price of each product at the time of purchase. Credit card is the only payment method acceptable. A user can register as many credit cards as s/he desires, but it is mandatory to register at least one in order to be registered as a user. For each card, its IBAN code, cardholder name, expiry month and year, CCV, and total monetary amount purchased with that card so far is stored. For the user, it is necessary to register his/her name and surname, address, zip code, city, phone number, email, and the total monetary amount paid so far. Only Danish residents with a Danish phone number are allowed to register in the application.

In order to provide useful information to the application’s users, and because of the company’s is storing experimental data, product ratings will also be managed. Users are able to rate any product from 1 to 5, as well as, optionally, to include a comment. In order to avoid calculations, the average rating of each product it is stored with it.

# Logical Data Model

## Entity/Relationship Model

## Explanation of non-obvious design decisions

## Explanation of non-obvious normalization and denormalization decisions

# Tools

“Explanation of choices for RDBMS and version, NoSQL model, database and version, and programming languages and versions”

# Physical Data Model

## Explanation of general and relevant specific choices for data types

## Explanation of general and relevant specific choices for primary and foreign keys

## Explanation of general and relevant specific choices for indexes

## Explanation of general and relevant specific choices for constraints and referential integrity checks