TALLINN UNIVERSITY OF TECHNOLOGY

School of Information Technology

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BEERWISE

Home project in subject Building Distributed System (ICD0021)

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1. Application overview

1.1. Goal of project

The goal of this project is to create a web application that will show which store chain has the cheapest beer. The idea arose from a personal need to quickly and conveniently find in which chain of stores there is a favorite drink at the best price, because no one wants to overpay, especially a student. Moreover, few people want to spend a lot of time going to the websites of several chains of stores to find the best offer.

The application will contain a list of chain stores, as well as the stores themselves, as well as the range of beer in them. The user will have the opportunity to write the name of their favorite drink, after which the application will find it in some of the cheapest offers and show the information.
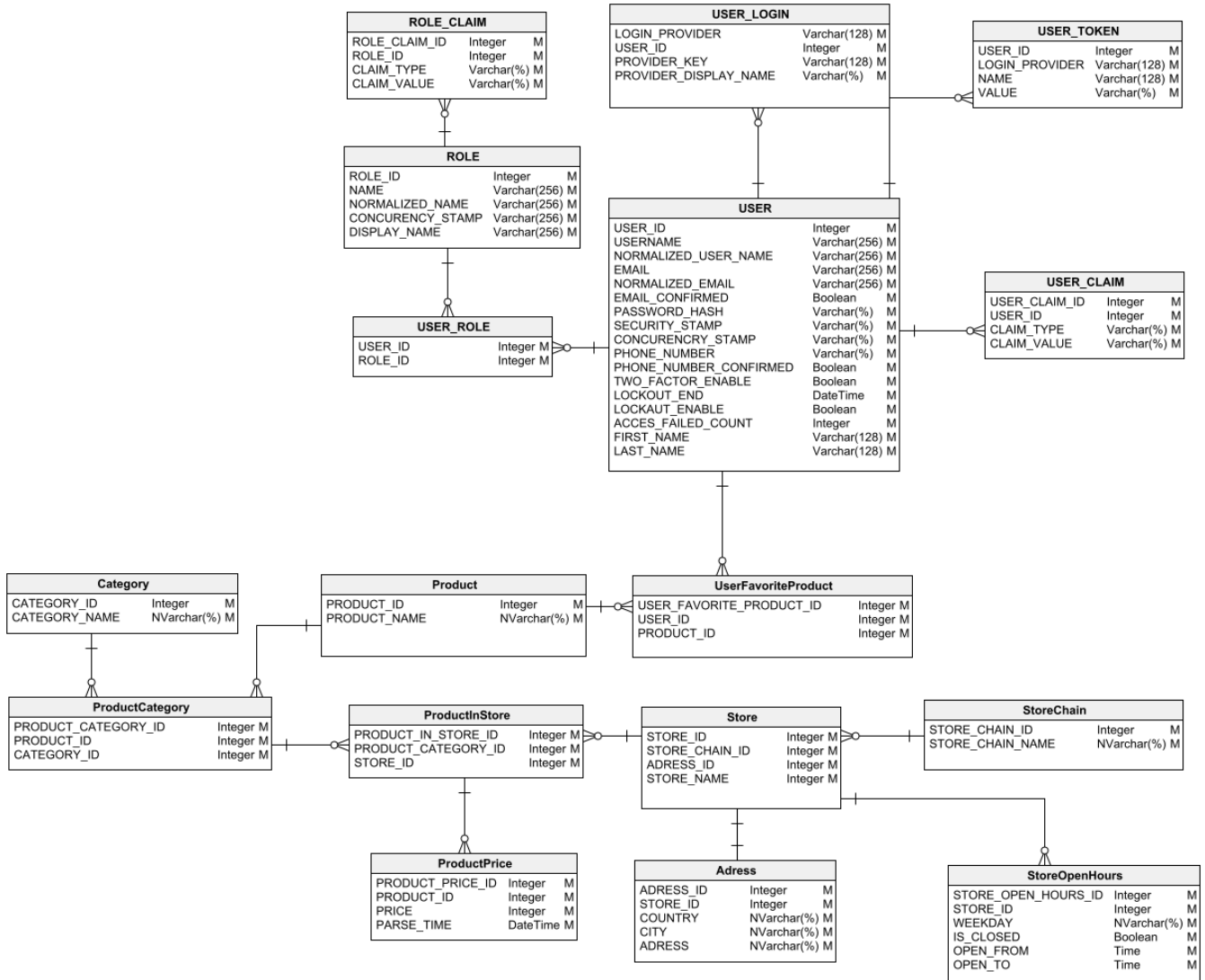
It will also be possible to add beer to the list of favourite products, so that information about it is displayed on the main page firstly. The list of the cheapest beer among all beer will also be displayed on the main page.

If the user notices that the price of a drink in the store is different from what he sees in the application, then for such cases there is a "update price" function, with which the user sends a photo with a new price for the drink, or the "out of stock" function, with which the user reports that the drink was sold out in any of the stores.

The administrator of this resource will have the opportunity to add new units of beer to the system, report on the availability of goods in a certain retail chain, change the price of existing items, and also delete beer that is no longer for sale, so as not to confuse users of the application.
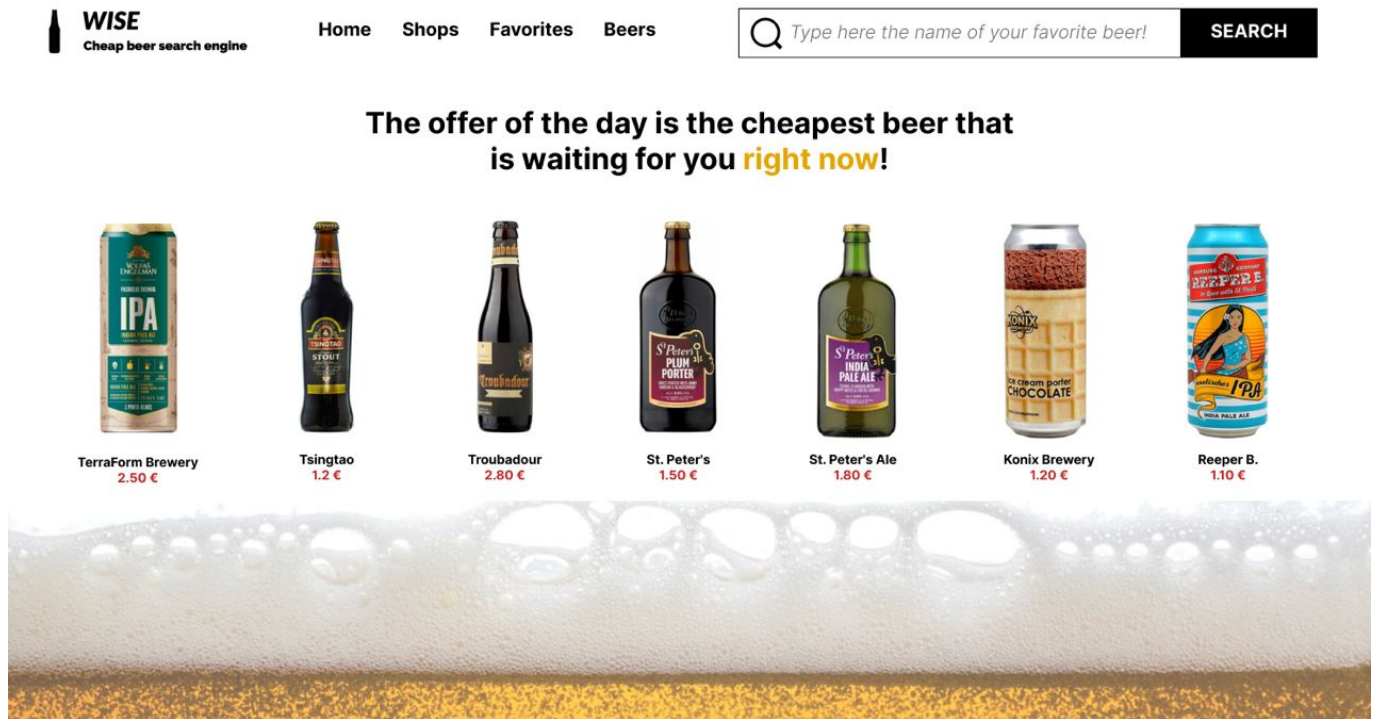
This application will be a handy tool for lovers of "liquid gold", which will help brighten up more than one Friday night, spending the minimum amount of money.
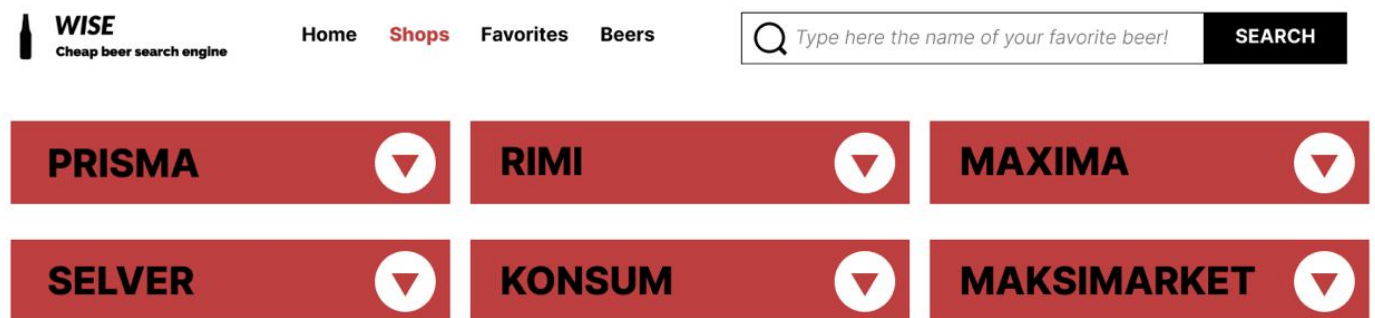
2. Diagrams

ROLE_CLAIM

ROLE_CLAIM_ID	Integer	M
ROLE_ID	Integer	M
CLAIM_TYPE	Varchar(%)	M
CLAIM_VALUE	Varchar(%)	M

USER_LOGIN

LOGIN_PROVIDER	Varchar(128)	M
USER_ID	Integer	M
PROVIDER_KEY	Varchar(128)	M
PROVIDER_DISPLAY_NAME	Varchar(%)	M

USER_TOKEN

USER_ID	Integer	M
LOGIN_PROVIDER	Varchar(128)	M
NAME	Varchar(128)	M
VALUE	Varchar(%)	M

ROLE

ROLE_ID	Integer	M
NAME	Varchar(256)	M
NORMALIZED_NAME	Varchar(256)	M
CONCURENCY_STAMP	Varchar(256)	M
DISPLAY_NAME	Varchar(256)	M

USER

USER_ID	Integer	M
USERNAME	Varchar(256)	M
NORMALIZED_USER_NAME	Varchar(256)	M
EMAIL	Varchar(256)	M
NORMALIZED_EMAIL	Varchar(256)	M
EMAIL_CONFIRMED	Boolean	M
PASSWORD_HASH	Varchar(%)	M
SECURITY_STAMP	Varchar(%)	M
CONCURENCRY_STAMP	Varchar(%)	M
PHONE_NUMBER	Varchar(%)	M
PHONE_NUMBER_CONFIRMED	Boolean	M
TWO_FACTOR_ENABLE	Boolean	M
LOCKOUT_END	DateTime	M
LOCKAUT_ENABLE	Boolean	M
ACCES_FAILED_COUNT	Integer	M
FIRST_NAME	Varchar(128)	M
LAST_NAME	Varchar(128)	M

USER_CLAIM

USER_CLAIM_ID	Integer	M
USER_ID	Integer	M
CLAIM_TYPE	Varchar(%)	M
CLAIM_VALUE	Varchar(%)	M

USER_ROLE

USER_ID	Integer	M
ROLE_ID	Integer	M

Category

CATEGORY_ID	Integer	M
CATEGORY_NAME	NVarchar(%)	M

Product

PRODUCT_ID	Integer	M
PRODUCT_NAME	NVarchar(%)	M

UserFavoriteProduct

USER_FAVORITE_PRODUCT_ID	Integer	M
USER_ID	Integer	M
PRODUCT_ID	Integer	M

ProductCategory

PRODUCT_CATEGORY_ID	Integer	M
PRODUCT_ID	Integer	M
CATEGORY_ID	Integer	M

ProductInStore

PRODUCT_IN_STORE_ID	Integer	M
PRODUCT_CATEGORY_ID	Integer	M
STORE_ID	Integer	M

Store

STORE_ID	Integer	M
STORE_CHAIN_ID	Integer	M
ADRESS_ID	Integer	M
STORE_NAME	Integer	M

StoreChain

STORE_CHAIN_ID	Integer	M
STORE_CHAIN_NAME	NVarchar(%)	M

ProductPrice

PRODUCT_PRICE_ID	Integer	M
PRODUCT_ID	Integer	M
PRICE	Integer	M
PARSE_TIME	DateTime	M

Adress

ADRESS_ID	Integer	M
STORE_ID	Integer	M
COUNTRY	NVarchar(%)	M
CITY	NVarchar(%)	M
ADRESS	NVarchar(%)	M

StoreOpenHours

STORE_OPEN_HOURS_ID	Integer	M
STORE_ID	Integer	M
WEEKDAY	NVarchar(%)	M
IS_CLOSED	Boolean	M
OPEN_FROM	Time	M
OPEN_TO	Time	M

Vertabelo

3. Application UI sketches

3.1. Main page

3.2. Shops page

3.3. Favorites beers page

BEERYOULIKEBEERYOULIKEBEERYOULIKEBEERYOULIKEBEERYOULIKEBEERYOULIKEBEERYOULIKEBEERYOULIKEBEERYOULIKEBEERYOULIKEBEERYOUL

1.25€ "Reaper B." Exotische IPAD, in car, 0.5 Rimi

0.90€ St. Peter's, "Without" Original Non Alcoholic, 0.5 Prisma

1.50€ St. Peter's, "Without" Original Non Alcoholic, 0.5 Prisma

1.10€ Volfas Engelman, IPA, in can, 568 ml Rimi

1.10€ Volfas Engelman, IPA, in can, 568 ml Rimi

3.4. Beers page

1.25€ "Reaper B." Exotische IPAD, in car, 0.5 Rimi

0.90€ St. Peter's, "Without" Original Non Alcoholic, 0.5 Prisma

1.50€ St. Peter's, "Without" Original Non Alcoholic, 0.5 Prisma

1.10€ Volfas Engelman, IPA, in can, 568 ml Rimi

1.10€ Volfas Engelman, IPA, in can, 568 ml Rimi

0.85€ "Reaper B." Exotische IPAD, in car, 0.5 Rimi

1.45€ "Reaper B." Exotische IPAD, in car, 0.5 Rimi

1.25€ "Reaper B." Exotische IPAD, in car, 0.5 Maxima

1.25€ "Reaper B." Exotische IPAD, in car, 0.5 Rimi

1.25€ "Reaper B." Exotische IPAD, in car, 0.5 Rimi