

TALLINN UNIVERSITY OF TECHNOLOGY

TOY SWAP APPLICATION

Building Distributed Systems

TAAVI HANSING
213308IADB

Tallinn 2024

Introduction

The Toy Swap Application is a platform that enables parents to connect with one another to exchange toys for their children. Through application, parents can easily list their child's old toys that are no longer in use or have been outgrown, and find other parents who have toys that their child might be interested in. By swapping toys, parents can reduce waste, save money, and contribute to a more sustainable future.

Overview

This application is similar to book swap application, but there are some differences.

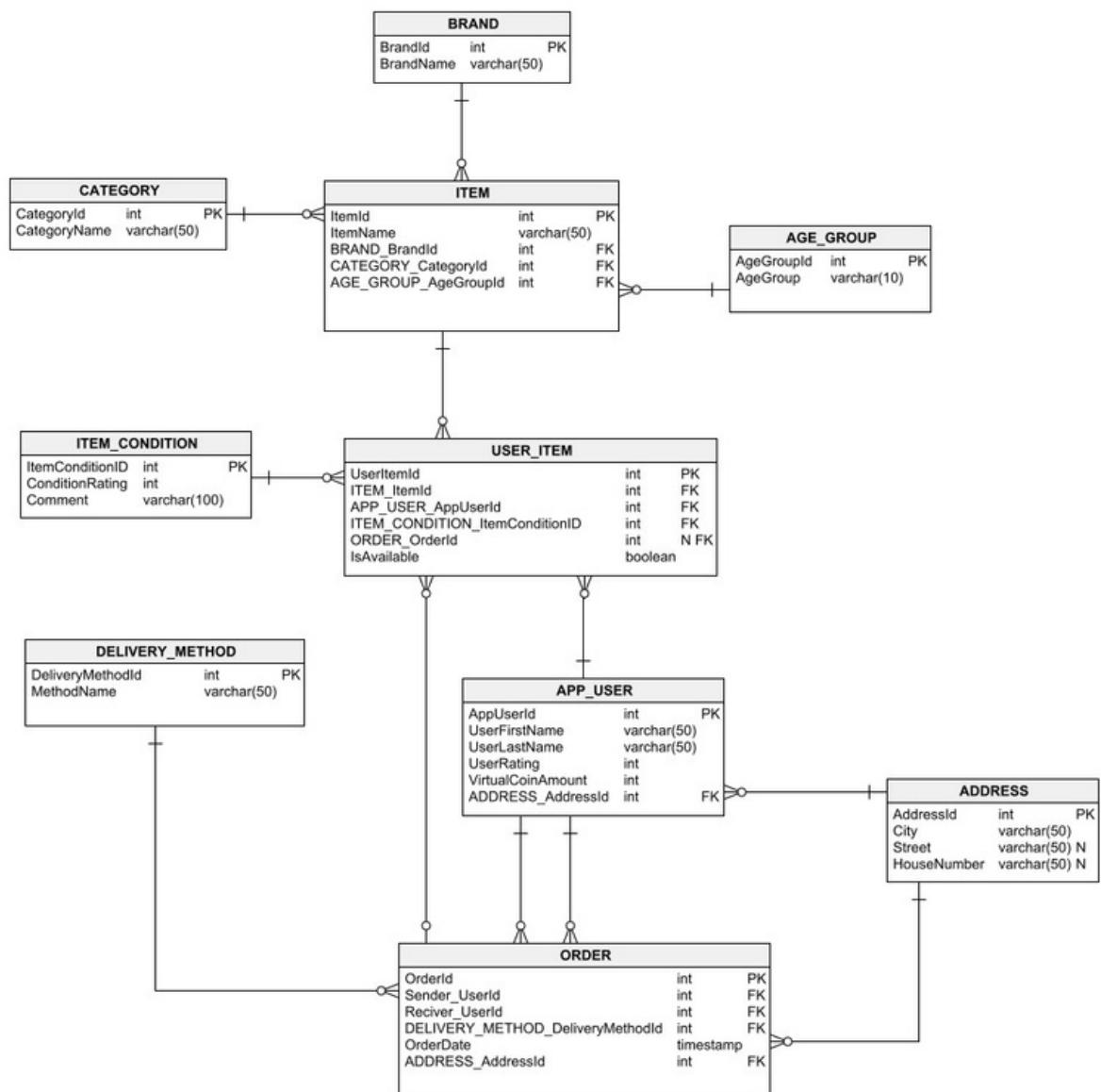
Each user can post item and set price from 0 to 10. Zero means that users can give them for free also. Virtual points are given to a user when a successful exchange is completed. Also new users get 5 points. Items condition also must be rated when posting it.

Users can rate other users who they have exchanged toys with. Average rating of all users is displayed in public, so it will alert others which users to not trust or otherwise. Rating is from 1 to 5. Next to rating user's hometown is displayed also.

Delivery system is not part of this application. Users can choose delivery method when completing order. Like hand-to-hand or using parcel machines. Then the user, who's item has been selected, has to post it and receiver pays for the delivery.

Items are sorted by category(boardgames, wooden toys), age groups and by brands. Filters can be applied. Search box is for searching item by it's name.

ERD



Toy swap

By Location▼ By Age▼ By Group▼ By Brand ▼

Login

Here are random toys displayed



Toyname
Brand



Toyname
Brand



Toyname
Brand



Toyname
Brand



Toyname
Brand



Toyname
Brand

Toy swap



Search toys...

By Location▼ By Age▼ By Group▼ By Brand▼

Login

Toy Type

Action Figures (29)

Blasters (3)

Building Blocks (67)

Electronic Pets (5)

Fidget Toys (1)

Show more

Other Options

☐ Savings (140)

☐ New Product (118)

Age

☐ 0 - 18 months (1)

☐ 18 - 36 months (1)

☐ 3 - 5 years (111)

☐ 5 - 8 years (474)

☐ 8 - 11 years (270)

When moved over
triangles, dropdown list of
Brands/Groups/ages/
Locations

 *Search toys...*

By Location▼ By Age▼ By Group▼ By Brand▼

Login

*Your ordering “itemName”.
Cost that many points*

enter address...

method of delivery selectlist...

*if package station, then enter
which one*

Submit



By Location▼ By Age▼ By Group▼ By Brand▼

Login



Item name
Brand
Age Group

This toy is offered by:



Username
user rating

Item price
Item Condition
rating



City name

Comment about
item by user
who posted

Order



Username
user rating

Item price
Item Condition
rating



City name

Comment about
item by user
who posted

Order