

TALLINN UNIVERSITY OF TECHNOLOGY

School of Information Technologies

Railika Tamm 193517IADB

CRAFT SUPPLY ORGANIZATION SYSTEM

Building Distributed Systems

Project Proposal

Supervisor: Andres Käver

Tallinn 2023

Author's declaration of originality

I hereby certify that I am the sole author of this thesis. All the used materials, references to the literature and the work of others have been referred to. This thesis has not been presented for examination anywhere else.

Author: Railika Tamm

Date: 19.02.2023

Table of contents

1 Introduction.....	5
2 Diagrams	6
3 Analysis.....	7
3.1 Main flow for admin	7
3.2 Main flows for registered users.....	8

List of figures

Figure 1:Entity Relationship Diagram	6
Figure 2:List view mock-up.....	7
Figure 3:Creation form mock-up	8

1 Introduction

The goal of this project is to provide a system that can help keep track of different craft supplies and patterns, works-in-progress (WIPs) and share free patterns with other users. Currently there is no system available to crafters, that offers all these capabilities in one place.

There will be three types of users in this system:

1. Admin,
2. Registered users,
3. Unregistered users.

The main motivation for creating this project is to provide a space that has all the necessary functionality to keep track of everything crafting related.

Main use case for admins is to provide classifiers for organizing and filtering.

Admins register new classifiers:

- Craft types, ex. Knitting, crochet,
- Craft supply types, ex. Knitting needle, yarn,
- Craft supply attributes, ex. Size, colour,
- Pattern types, ex. file, link.

Admins also approve patterns that have been submitted by users for public use.

Registered users can log their supplies, upload crafting patterns, and share them with other users and keep track of their WIPs. Users can mark supplies as “in use” under the WIPs, so that they can see which tools are available for use.

Supplies and patterns can be filtered by all classifiers. User can sort supplies by availability.

Unregistered users can view public patterns that have been approved.

The system can continually be updated to keep up with user needs and new tools and supplies.

ERD diagram of system is on the next page.

2 Diagrams

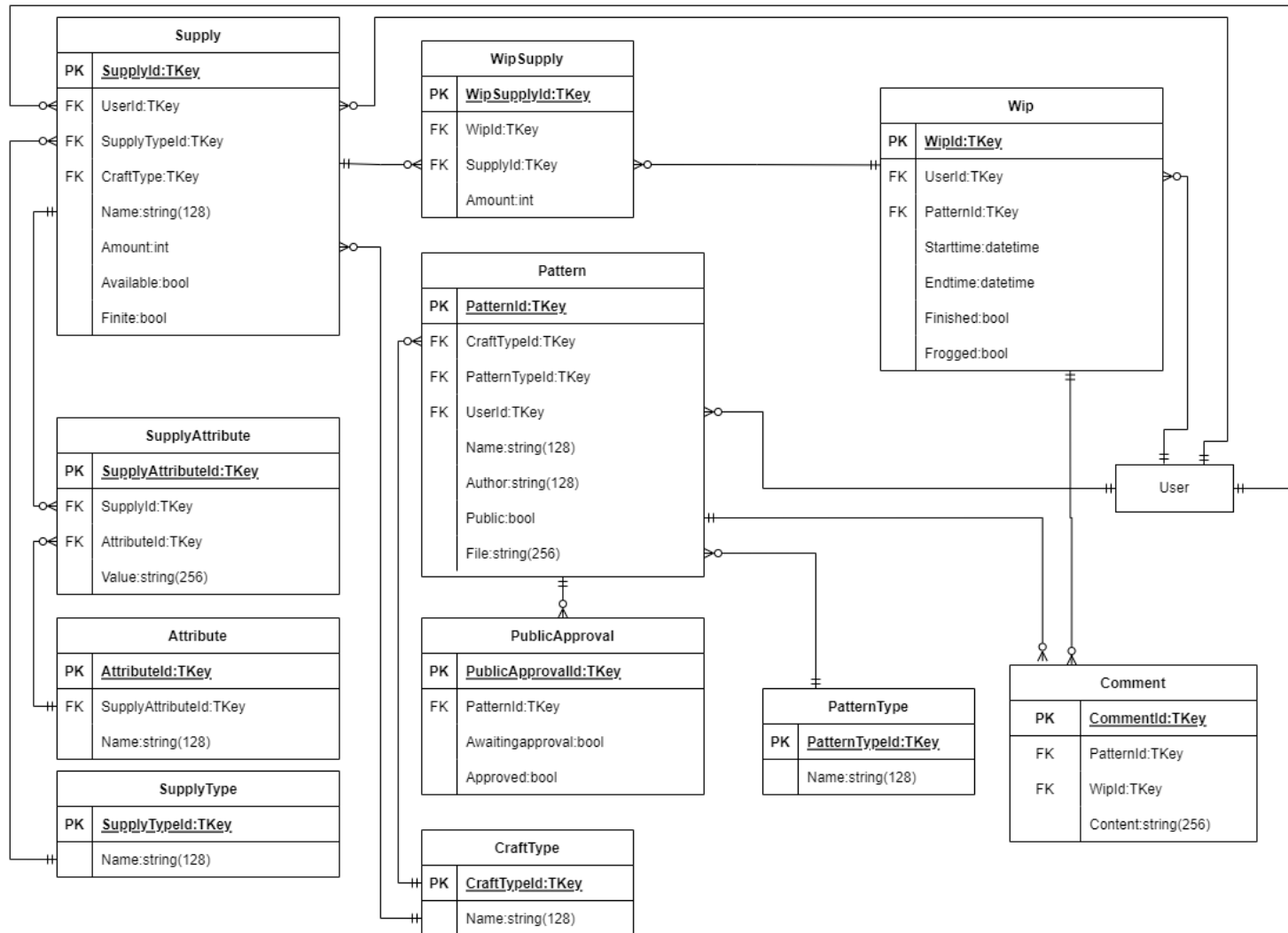


Figure 1:Entity Relationship Diagram

3 Analysis

All classification terms, supplies, patterns, WIPs and users can be created, read, updated, and deleted. Revisions are not saved in system.

Most of the features in this system are only available to registered users.

3.1 Main flow for admin

Main flow for admin is to create classification terms that help users organize their supplies, patterns and WIPs.

After logging in the admin must navigate to desired classification terms page (ex. supply types). There the user sees previously added terms and can go to add another. After filling in the creation form, the term is added and can be used by registered users immediately.

Menu: Logged in as: Admin

Classifiers ▾

Supply Types

Craft types

Attributes

Pattern types

Name	Actions
Needle	<div>Edit ▾</div>
Yarn	<div>Edit ▾</div> <div>Delete</div>

Add new ➔

Figure 2:List view mock-up

Menu: Logged in as: Admin

Classifiers ▼

Supply Types Craft types Attributes Pattern types

Name:

Insert supply name

Save

Figure 3: Creation form mock-up

3.2 Main flows for registered users

Main flow for visitor logging their supplies. After logging in the user must navigate to supplies page. There user will only see their own supplies and can filter and sort them. User needs to push a button to go to supply creation form. After filling out the form user must save the form. Form has fields for supply type, attributes, craft types, amount, and a check for finite supplies. After saving, the supply will be added to the users list of supplies.

Main flow for visitor starting a project. After logging in the user must navigate to the WIPs page. There user will only see their own WIPs. After filling out the form user must save the form. Form has fields for supply selection, pattern, start and end times, and checks for if the work is finished and if it is frogged (meaning if the work was abandoned and unraveled). After saving, the WIP will be added to the users list of WIPs.

List and creation form views are analogous to those in Figure 1 and Figure 2.