

TruckShareSRS

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Project Link:

<https://github.com/kylinblue/TruckShare-CSC340>

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Introduction

I am pleased to present TruckShare, a web application developed as a user-to-user rental service specifically for trucks, trailers and tools. Similar to Turo, TruckShare provides a platform for individuals to rent out their equipment to those in need, streamlining the process and making it more accessible for users.

The app allows customers to create listings to request trucks, trailers, and tools in their area, as well as browse available listings. Providers can list their trucks and tools, specify pricing, and outline liability and insurance requirements. SysAdmins oversee platform moderation, remove inappropriate listings, and resolve conflicts between users.

Product Features

- **Provider Listings:** Providers can list their trucks and tools with detailed descriptions and pricing.
- **Search and Browse:** Users can search for and browse through available listings.
- **Booking System:** Integrated booking system for reserving trucks and tools.
- **Ratings and Reviews:** Users can rate and review each other to ensure trust and quality.
- **Messaging System:** In-app messaging for communication between users and providers.
- **Guest Tour:** Guests can view all listings available on the website without registration, however limited to a fully view-only mode.
- **Moderation Tools:** SysAdmins can manage listings, handle disputes, and ensure platform integrity.

Functional Requirements

- **FR0:** The website will allow users to create their accounts.
 - Username, password, email
- **FR1:** The website will allow users to modify their account information.
 - Credentials, fields that need to be modified
- **FR2:** The website will collect payment information.
 - Credit/debit card, bank account, name
- **FR3:** The website will allow users to create, modify, and delete listings.
 - Unique listing ID/URL, title, description, time, location, media, price, terms
- **FR4:** The website will provide users a list of listings to browse and filter.
 - Region/location, type of equipment, price
- **FR5:** Users can choose listings to book.
 - Time, personal information
- **FR6:** The website will have a messaging function.
 - Unique conversation ID, initiating the conversation, the users between conversation, message content
- **FR7:** The website will provide moderation tools for moderators.
 - Review conversation, review listing, delete listing, initiate conversation with users
- **FR8:** The website will have a read only guest view
- **FR9:** The website will provide users the option to contact support/moderators.
- **FR10:** Moderators can be appointed by the site owner.

Non-Functional Requirements

NFR0: The website shall resize appropriately for both desktop and mobile browser environments.

NFR1: Relevant compliance, rules, and regulations shall be displayed prominently for users during registration and transactions.

NFR2: Content (text/media), buttons, and selections displayed on the website should be appropriately sized for ease of reading and navigation.

NFR3: The platform should comply with industry standard data protection regulations.

Scenarios

a. Users

i. Registration/Login

- **Initial:** Website prompts users to enter credentials to login or register.
- **Normal:** User provides credentials to login/register.
- **What Can Go Wrong:** User inputs wrong credentials.
- **Other Activities:** Forget password, browsing sample listings without registering.
- **System State on Completion:** User successfully registers/logs in and is directed to the main page.

ii. Browsing

- **Initial:** User presented with main page.
- **Normal:** User uses filter to find specified utility, a list of matching items are displayed to be browsed. User clicks on the specific listing interested to view further information about it.
- **What Can Go Wrong:** Current filter shows no listing.
- **Other Activities:** Edit profile, log off, open previous conversation, view active and previous bookings.
- **System State on Completion:** User made a choice to view a listing or go on to other activities.

iii. Initiate conversation

- **Initial:** User finds listing they like from options presented.
- **Normal:** User clicks "Contact provider" to open the message interface and sends a message to inquire.
- **What Can Go Wrong:** Failure to send after a message is composed due to network error, the user will be prompted to retry. In the event that the provider does not respond, the user can send a follow-up message.
- **Other Activities:** The user can review the provider's rating and reviews while waiting for a response.
- **System State on Completion:** User has sent a message and is waiting for a response.

iv. Take action on a listing

- **Initial:** User is on a specific listing page and is confidently set on that listing.

- **Normal:** User will click “Book now” and confirm details (date, time, price). User proceeds to payment.
- **What Can Go Wrong:** User requests a date out of range. Payment could fail (funds, details). Will be prompted to retry.
- **Other Activities:** Users can change their mind and cancel the booking.
- **System State on Completion:** Booking is confirmed, confirmation email is sent.

b. Provider

i. Listing

- **Initial:** Provider is logged in on the dashboard.
- **Normal:** Provider clicks “List Item” and fills in descriptions, pricing, and photos.
- **What Can Go Wrong:** Provider could miss mandatory fields or upload incorrect photos. Error message will prompt them to fix it.
- **Other Activities:** The provider can see a review before listing.
- **System State on Completion:** The listing is live and visible to users while searching.

ii. Reply to a conversation

- **Initial:** Provider receives a message from a user.
- **Normal:** Provider opens the message and replies. Answers questions (additional details, availability).
- **What Can Go Wrong:** Failure to send after a message is composed due to network error, the user will be prompted to retry. In the event that the provider does not respond, the user can send a follow-up message.
- **Other Activities:** Provider can review the user’s profile and reviews.
- **System State on Completion:** Provider sends a reply to a user’s message.

c. SysAdmin

i. Moderation

- **Initial:** SysAdmin is logged into the admin dashboard and receives a notification of a flagged or reported listing.
- **Normal:** SysAdmin reviews said listing, checks for platform guideline compliance, and decides on appropriate actions.
- **What Can Go Wrong:** SysAdmin could need more information. Accidentally deleting a post, will have the option to undo action.

- **Other Activities:** SysAdmin can generate platform statistics reports. SysAdmin can warn, suspend, and ban a user if deemed necessary, a record will be archived, and an email will be sent to the affected user.
- **System State on Completion:** The flagged listing is addressed and dealt with, the site is safe for users.

ii. Reply to a support request from user or provider

- **Initial:** SysAdmin is logged into the admin dashboard and receives a notification regarding a support request.
- **Normal:** SysAdmin reviews the request, then responds to address and fix the issue.
- **What Can Go Wrong:** SysAdmin might need more info to resolve the issue, requesting further details.
- **Other Activities:** See "Moderation Other Activities."
- **System State on Completion:** Support request is responded to and resolved.

Scenarios With Screenshots



TruckShare
**Get equipped,
get moving**

Please fill out this form, and we'll get you started on your project!

**Provide your
information to sign up**

First name

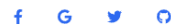
Last name

Username

Password

Sign up

or sign up with:



User Listings

TruckShare - Login

localhost:8080/user/auth

Incognito

TRUCKSHARE

LOGIN

SIGN UP

GUEST

Get equipped, get moving!

User Not Found

Please login to your account

nonExistentUser

Username

.....


Password

Log in

Forgot password?

Don't have an account?

Create new



Website enabled by [Bootstrap](#), made by [CSC340 Students Group 1](#).

TruckShare, 2024


TruckShare - Listings

localhost:8080/user/user-id/52


Incognito

TRUCKSHAREMY HOMEMY LISTINGSMY RESERVATIONSMY MESSAGESLOGOUT


Create New



BigTex 14GN Tandem Flatbed
11k lbs Capacity Gooseneck, low load floor, ramp included
Available
[View Details](#) [Contact Provider](#)



Carry-On 6'x12' Enclosed Box Trailer
Silver, Ramp included, Dampened door, 5k capacity
Available
[View Details](#) [Contact Provider](#)



2021 John Deere 1023E Utility Tractor
Various attachments available, call or message me to inquire
Available
[View Details](#) [Contact Provider](#)

TRUCKSHARE
Website enabled by [Bootstrap](#), made by [CSC340 Students Group 1](#).
TruckShare, 2024

