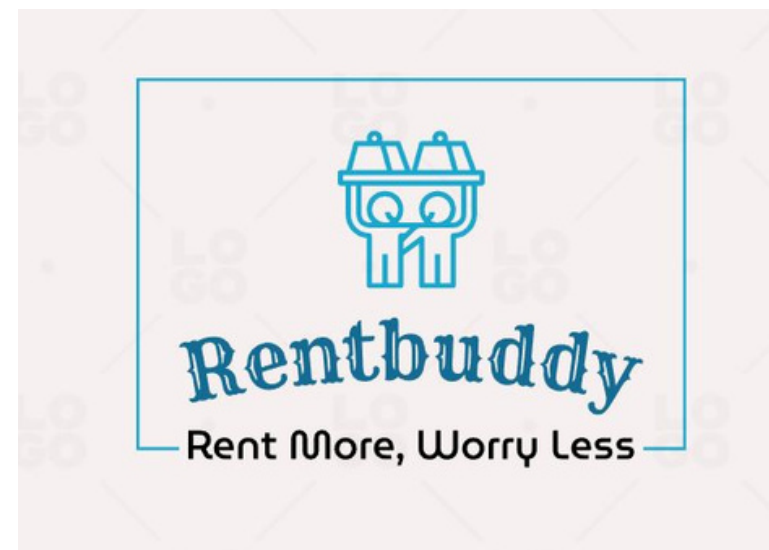
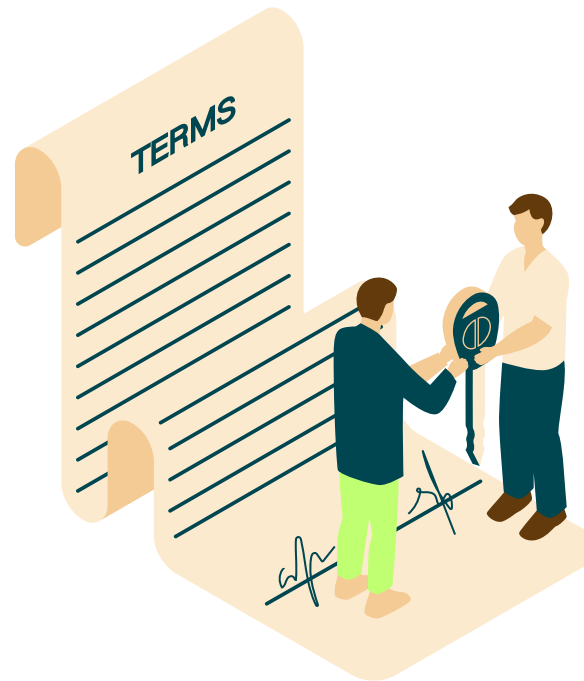


# Rental System

Presented by Group 21



Course Instructor: Professor Manish Khare

Professor Saurabh Tiwari

Course Mentor: Jhanvi Ma'am

# Our Objectives



To create an effective mechanism for renting out our belongings.

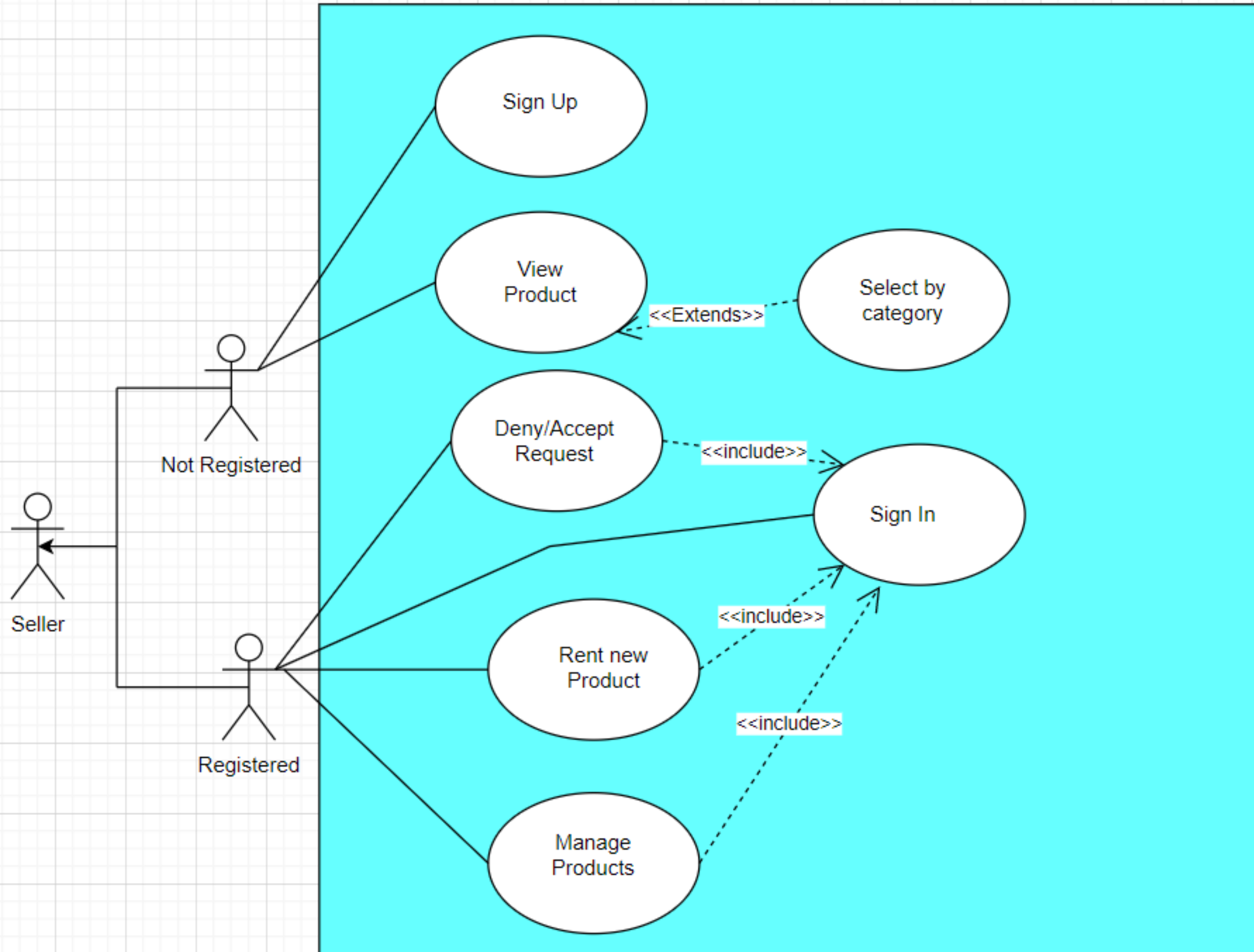
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To create an interactive system that is simple to use for both borrowers and lenders.

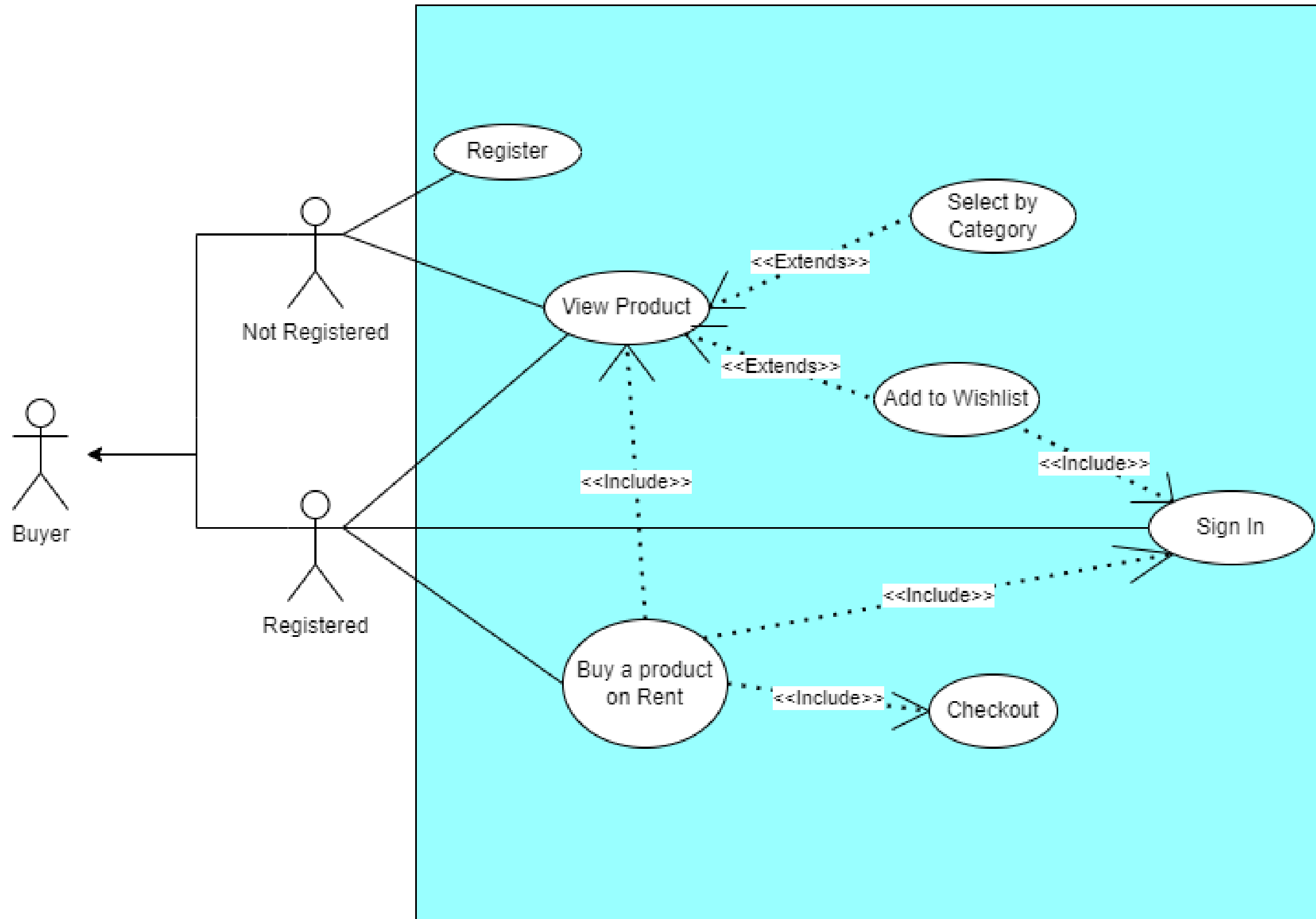
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To prepare a system where lender information is in his own hands and does not get into the wrong hands.

# Use Case Diagram for Lender



# Use Case Diagram for Borrower



# Milestones

## Build 1

The team members learned **useful tools and technologies** for software development. Then we implemented **Schema Design & Basics Routes** till March end.

## Build 2

After the mid-evaluation, we looked into the tasks for building a **user-friendly interface** for our website.

## Build 3

We have **Fixed Errors**, did some **Schema Refinement** and implemented the Advanced Routes.



# Takeaways

## Tools and Technologies

Github, Visual Studio Code, diagrams.net, Node.js, React.js, Firebase, MongoDB, Postman

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## Real-World Project

Learned different SDLCs that are great simulations for upcoming career opportunities.

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## Team Work

All the team members worked as team in the whole process of the course project.

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## Problem Solving Approach

Acquired techniques and design methods will help look at the existing problems with distinct perspectives.



# Achievements



- Successfully implemented the renting system which we envisioned for and added all the features which we started with.
- 
- Successful interaction between the group members and coordinating our efforts to build a working system.
- 
- Not just learning, but implementing different technologies in this short span of time to pull off the tasks at hand.

# Mistakes



## Mistake 1

The early approach was not parallelized, which decreased the throughput.

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## Mistake 2

Getting started late with the coding part.

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## Mistake 3

Didn't start frontend along with backend thus leading to coordination issues early on.



# Future Work & Open Issues



## More Robust Authentication

Implementing Mail and Aadhar Card Based Authentication

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## Reminder System For Borrower

The borrower gets a notification when his period of renting a product is reaching an end.

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## Payment Gateway

Support for direct payment on the website, thus benefiting from the ease of use and business point of view.

# Future Work & Open Issues

A decorative graphic on the left side of the slide. It features several overlapping hexagons in shades of teal and green. A dark teal hexagon in the center contains a light green padlock icon. Light blue lines with small circular endpoints connect the hexagons, suggesting a network or flow.

## Product specific Request to Lender Details

In the current website version, Lender cannot view for which product the request is sent.

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## Chat with Lender

In the more advanced version, directly chatting with the seller on the website will help in increasing activity on website.

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## Lender Details

Send other details like the Contact number for easy communication between buyer and seller.

# Future Work & Open Issues



## Forget Password

The forgot password functionality is currently not available on our website

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## Search Bar

The search bar functionality on our website is currently not operational.

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## Reviews and Rating

There is no option for the borrower to review and rate the product(s).

# Rating for Software Artifacts



## Code Artifacts

4 out of 5 since the code works without failure but there might be possible improvements.

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## Project Management

4.5 out of 5 since every member in the group has contributed to the project in some way or the other.

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## Documentation

5 out of 5 because of extensive research regarding the project and framed an elaborate document to describe our project.

# Overall Rating

8

out of

10



Thank you