

# EasyRental- A Platform to Lend/Borrow

## Members:

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# **INTRODUCTION**

EasyRental is an application that helps manage their excess inventory as well as save money that they otherwise might have to spend on items that they temporarily need. EasyRental can be thought of like an Airbnb but for household items. The goal of the website is to provide users with a platform to rent or borrow any household items (e.g: vacuum cleaners, laptops, gaming consoles, etc.). The lenders will post the items on the website along with a per-hour renting price. The lenders can also set the renting price as \$0/hr i.e they can rent out the product for free, however, this kind of transaction will have a time limit constraint of a few hours. To borrow the products, the borrower will query the inventory and then can reserve the product for a certain amount of time by paying the decided amount to the lender.

## **TECHNOLOGICAL STACK**

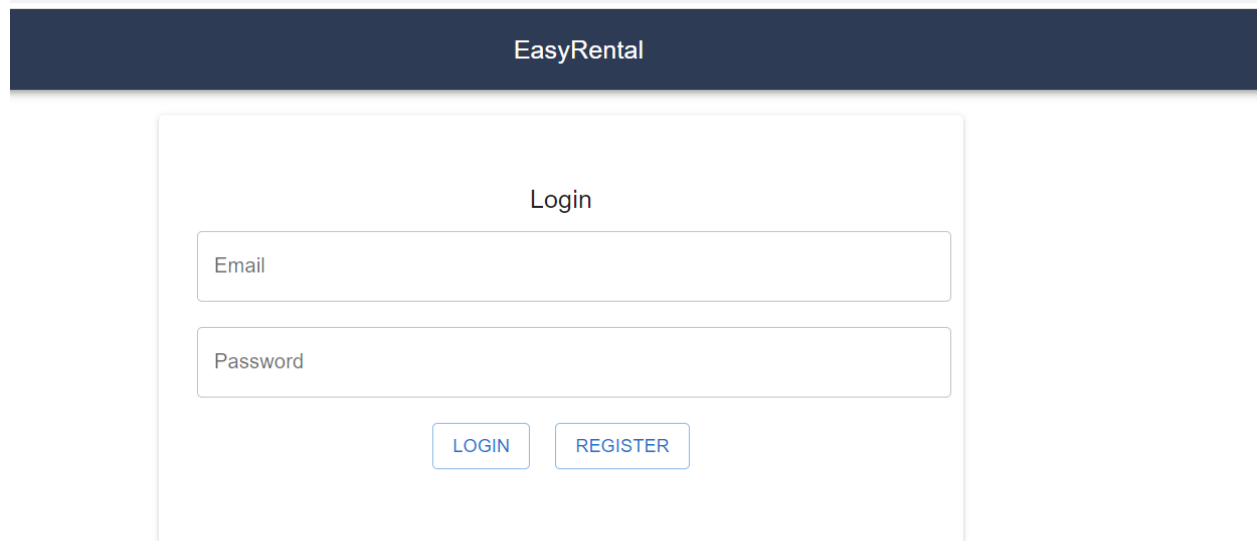
- Development Stack
  - Front-end: React.js
  - Back-end: Java, Spring Boot
  - Database: SQL
- Project Management Tools
  - Issue Tracking: Jira Board
  - Version Control: GitHub

# WEBSITE WORKFLOW

- Lenders will list the products they want to lend on the website
- Borrower will search and select the desired product and the duration for which they want to use the product
- Platform will display total payable amount
- Product will be temporarily reserved and the borrower will be asked to pay the lender on the Zelle ID mentioned on the checkout page
- Once the payment has been received by the lender, the lender needs to approve the transaction on the website after which the product will be ready to be picked by the borrower

## USER INTERFACES

### 1.Login page



The image shows a mockup of the EasyRental login page. It features a dark blue header with the 'EasyRental' logo. Below the header is a white login form with a light gray border. The form is titled 'Login' and contains two input fields: 'Email' and 'Password'. At the bottom of the form are two buttons: 'LOGIN' and 'REGISTER'.

EasyRental

Login

Email

Password

LOGIN REGISTER

### 2 Register page

### Register

### 3.Registration Confirmation page

# Registration successful

[GO BACK TO LOGIN PAGE](#)

## 4. User Home page

### Lending

[REGISTER A PRODUCT](#)

[MANAGE YOUR INVENTORY](#)

[MY EARNINGS](#)

### Borrow

[BORROW A NEW PRODUCT](#)

### Transactions

Vacuum Cleaner Transaction

[APPROVE](#)

[REJECT](#)

Play Station Transaction

[APPROVE](#)

[REJECT](#)

### My Account

[EDIT ACCOUNT DETAILS](#)

[LOGOUT](#)

## 5. RegisterProduct page

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Register Product

Product Name

Price

Relevant tags

Description

Specifications

Picture:

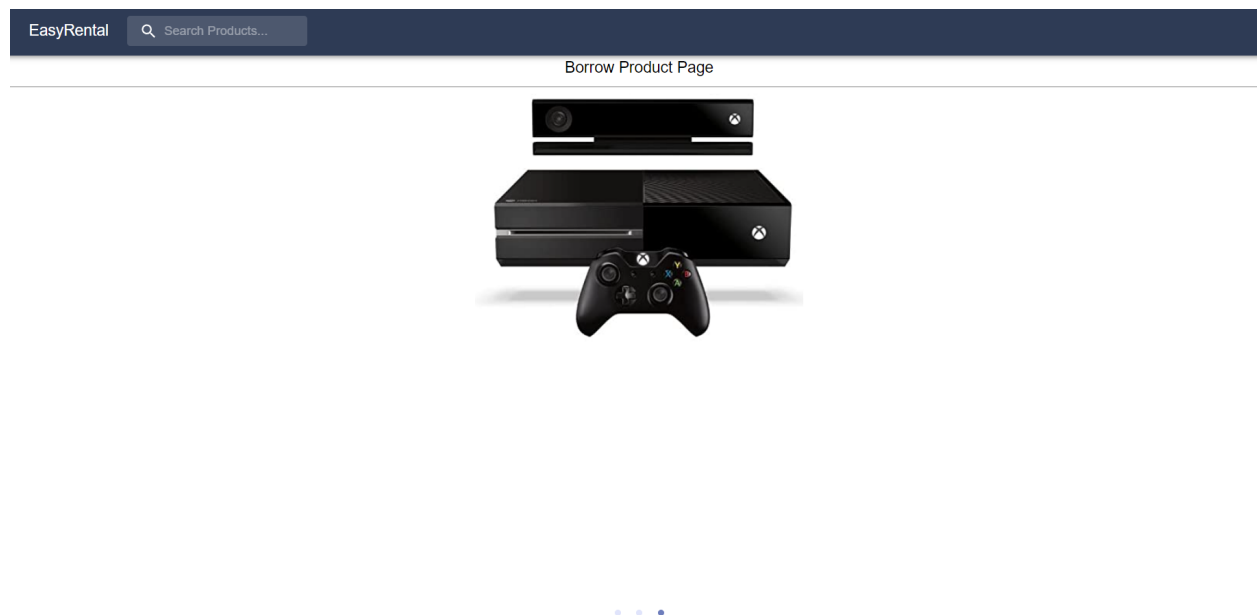
Choose File

No file chosen

REGISTER

BACK

## 6. Borrow product page



# UI MOCK-UPS




Product Search Page:

Search Results

A hand-drawn UI mockup of a product search results page. The mockup is enclosed in a rectangular border. At the top left, the text "EasyRental" is written in a cursive font. To its right is a search bar containing the word "Search" and a magnifying glass icon. Below the header, there is a grid of six empty rectangular boxes arranged in two rows of three, intended for product images. The drawing is done in a simple, sketchy style with black lines on a white background.


Product Description Page:

Product Page

EasyRental		Search 	
 Tags: 	<u>Title</u> Description		Price <input type="text" value="\$ hr"/> <input type="text" value="Book"/>

Cart Page:

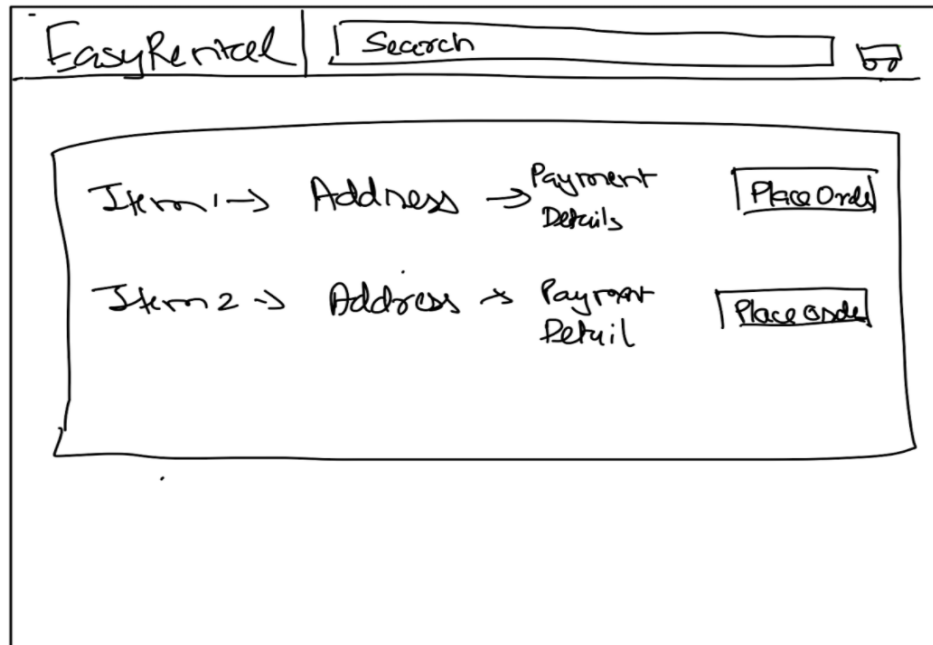
Cart

EasyRental		Search 	
List of Items		Total:	
		<input type="text" value="Checkout"/>	



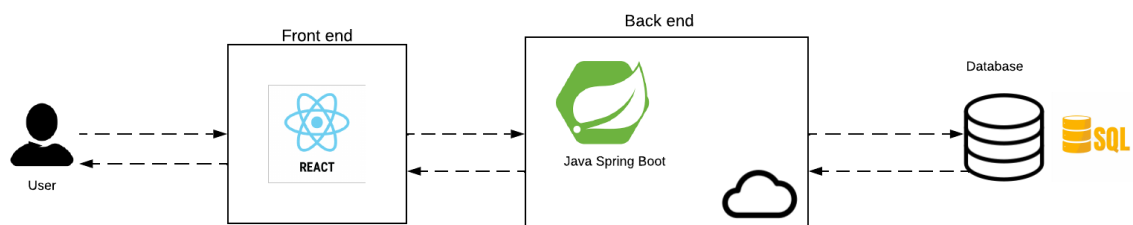
Review Order Page/ Checkout Page

Review your Order:-



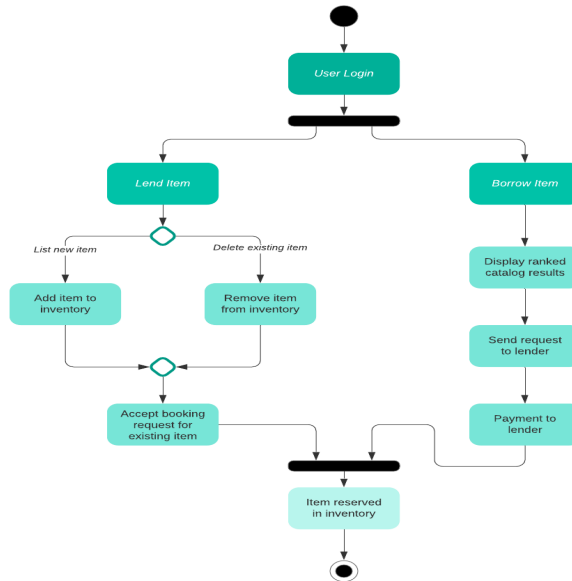
## ARCHITECTURE DIAGRAMS

Component Diagram

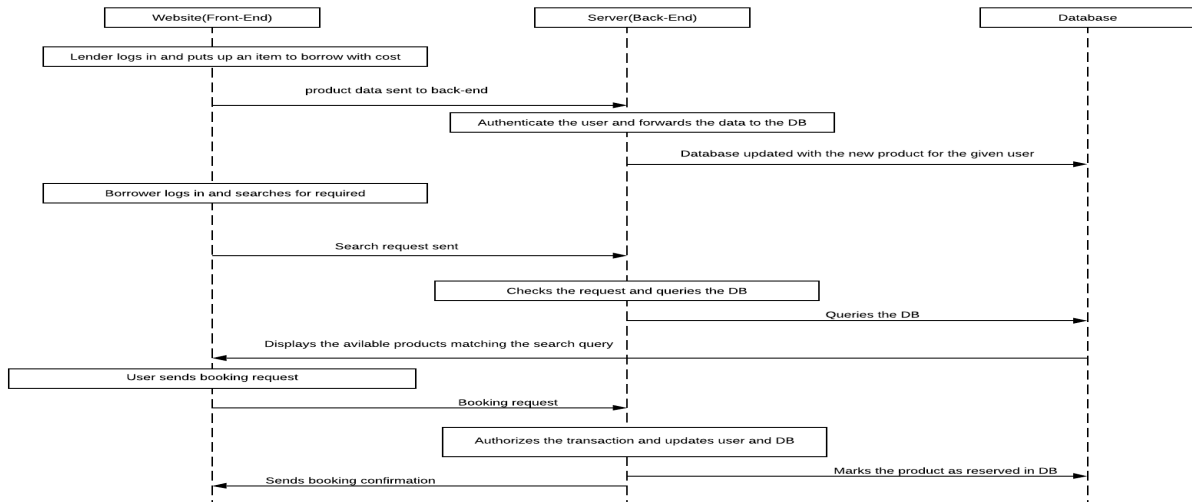


## Activity diagram

Arkapiya | January 28, 2022



## Sequence Diagram



# **DATABASE SCHEMA**

## **Users:**

ID  
FirstName  
LastName  
Country  
AddressLine1  
AddressLine2  
City  
State  
ZipCode  
Email  
Mobile  
Password

## **Product:**

ID  
Title  
Description  
UserID  
Price  
ImageURL  
Tags  
productMetaData  
Available

## **Bookings:**

ID  
Name  
ownerID  
borrowerUserID  
productID  
status- (3 states)  
StartTime  
EndTime  
TotalPrice

## **Location:**

UserID- PK  
Location

**Cart:**

UserID

ProductID

## **PROJECT CODE REPOSITORY**

**Back-end:**

<https://github.com/Hardik27/easyRental-backend>

**Front-end:**

<https://github.com/Hardik27/easyRental-frontend>

**Project video link:**

<https://youtu.be/IB7eFNo3TmU>