

# Architecture : Rent-It-All

A web application for renting out anything be it books, clothes or any other materials that can be rented.

The project will contain the following tables :

## 1. Item Table

This table will contain the details of all the items added onto the website. It will consist of the following :

- Item ID
- Item Name
- Description
- Price per Day
- Category
- Duration

## 2. User Sign Up Table for Renter/Buyer

This table will contain the details of the Renter who will be renting out the products. It will consist of the following :

- Name
- Contact Number
- Email ID
- Password
- Address
- Country Region
- Category (Renter/Buyer)
- User ID
- Wallet

### 3. Cart Table

This table will contain the products that will be added to the cart by the Buyer.

It will contain the same attributes as the item table in addition to one new attribute, Number of Day, "Days". This will be entered by the user and it specifies the number of days the item will be rented out by the buyer. This will be used in the calculation of total amount.

### **Landing Page**

This page will be the first web page the user will be able to see.

It will contain a navbar with the following tags:

1. Logo
2. About
3. SignUp
4. LogIn
5. Shopping Cart
6. Contact Us

### **Landing Page : About**

About section will contain the description of the website as what it does and why it was made.

### **Landing Page : SignUp**

The SignUp option will be situated at the far right of the nav bar.

The SignUp page will be used to register a new user (renter/buyer) on the website.

It will consist of a simple form about the name and contact details of the user as mentioned in User Sign Up Table.

Following the form will be a button saying “create account” which will store the above information into database table “User Sign Up Table”.

A unique user ID will be generated for the user and stored along with the rest of the information.

### **Landing Page : LogIn**

The LogIn option will be situated at the far right of the nav bar right next to the SignUp option.

The LogIn page will log in the already registered user to their respective profiles.

The details of the user will be fetched from the “User Sign Up Table” table and the user will be logged in.

### **Landing Page : Shopping Cart**

The Shopping cart option will be situated at the rightmost side of the nav bar after the LogIn and SignUp options.

This option will redirect the user to a webpage which will show the items added in the cart for the future buyout by the user.

The items in the cart will be stored in a separate table named “**Cart table**”.

At the end of this webpage the total amount will be displayed alongside an option saying “Proceed to Checkout”. This option will further redirect the user to a new webpage for the checkout process.

The items added in the cart will include the following options :

1. Delete item
2. Move item to wishlist

The user will be able to delete and move the items from and to the cart. The details of the items added/removed will be side by side updated in the **CART** table.

### **Landing Page : Contact Us**

The Contact Us option will contain the different ways the user can contact the owners of the website via twitter, facebook etc.

## **Post Log In**

After the user is logged in, depending upon the type of user whether, “Renter” or “Buyer”, they will be redirected to a different webpage.

### **Renter**

The renter will be able to add the item onto the website for its renting.

The page will consist of all the products the Renter has uploaded along side the details of the products in a grid format. He will be able to add, delete, modify the details of the products. All the products added to the website will be stored in the items table.

### **Buyer**

The buyer will be able to rent out the items added by the renter.

The buyer will be taken to the webpage containing all the products displayed category wise. The page will have a menu containing options based on the different categories of products like clothes, books, electronic devices etc which will contain various subcategories as well.

The user will be able to navigate through the list of items and open each one of them individually.

When clicked on item, the details of the item will be displayed. It will consist of the following :

1. Product ID
2. Product Name
3. Name of the Seller
4. Information of the Seller
5. Price per day
6. Security Deposit

### **Checking Out**

While checking out, the user will be directed to a new web page where they will have to enter the number of days they will rent out the item. This information will be updated in the "cart" table in the "Days" option. Hence, the total cost of the product will be calculated as,

$$\text{Total cost} = \text{Rent per day} * \text{No. of Days}$$

While renting the item out, the "Total cost" will be deducted from the user's wallet, including the cost and security deposit.

### **Return Period**

While returning an item, the user will be directed to a new webpage where then the user will have to enter the item ID and the details of the item will be displayed, these details will be fetched from the "Cart" table.

At the time of return, only the security deposit deducted at the time of check out will be restored in the users wallet.