# 

Project and Professionalism

(6CS007)

Milestone 3

E-commerce Website ‘Otaku Emporium’

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# Artefact Design

# Functional Decomposition Diagram (FDD)

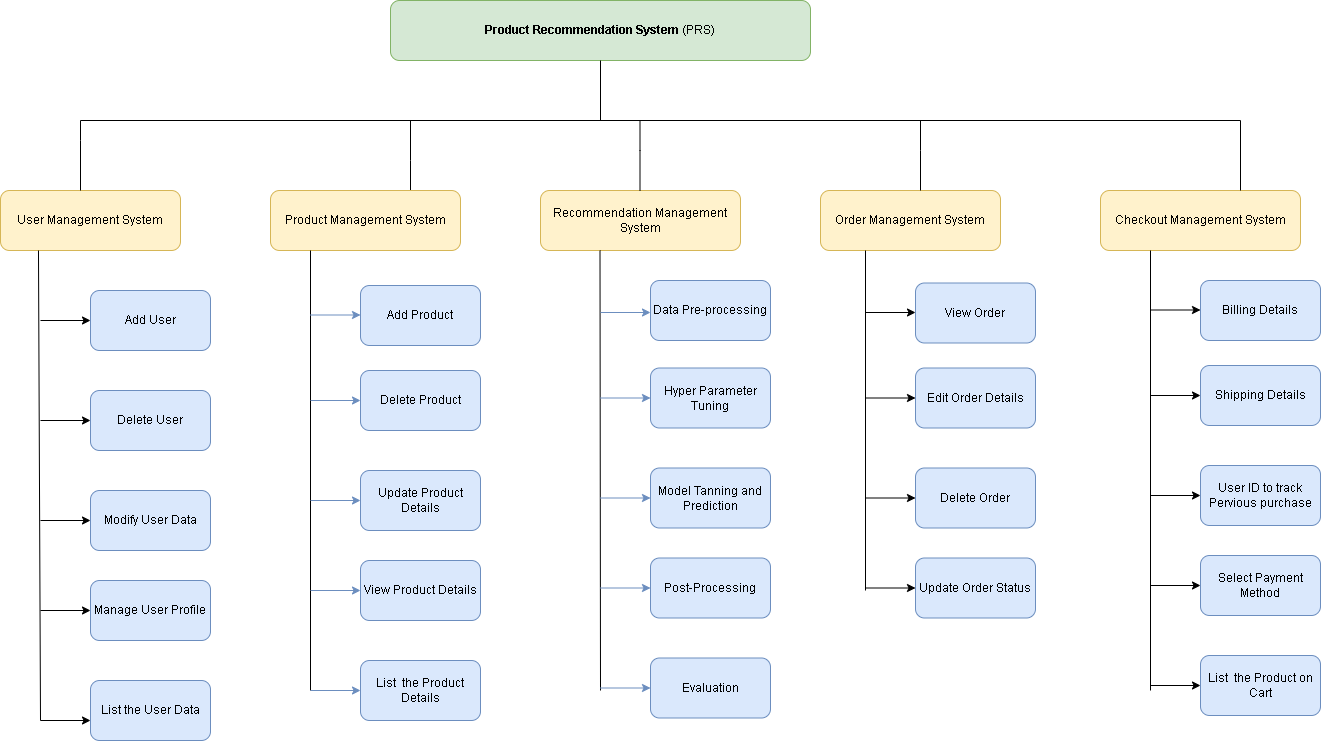


Figure 1 Functional Decomposition Diagram

# SRS Table

## User Management System (UM)

|  |  |  |
| --- | --- | --- |
| Req.Code | Req.Desc | MoSCoW Prioritization |
| UM-F-1.0 | Users should be able to register themselves in the system | Must Have |
| UM-NF-1.1 | User’s information should be encrypted while transmitting to the server. | Must Have |
| UM-NF-1.2 | User’s registration password must be above eight length and must contain alphabet and number. | Must Have |
| UM-NF-1.3 | If user’s email and username already exists in the database, an error message should be displayed. | Must Have |
| UM-NF-1.5 | New user should not be able to login with the existing user’s information. | Must Have |
| UM-F-1.6 | Admin should have option to delete a user profile. | Must Have |
| UM-NF-1.7 | There should be delete option in every user’s information list through which user can delete user from the website. | Must Have |
| UM-F-.17 | Admin should have option to ban a user profile. | Must Have |
| UM-NF-1.8 | There should be ban option in every user’s information list through which user can ban user from the website. | Must Have |
| UM-F-1.9 | All the users should be able to login and off the website. | Must Have |
| UM-F-2.0 | All the users should be able to reset/ change their password. | Must Have |

## Product Management System (PM)

|  |  |  |  |
| --- | --- | --- | --- |
| Req.Code | Req.Desc | Use Case | MoSCoW Prioritization |
| PM-F-1.0 | All the products and category should be displayed to the user. | View Product | Must Have |
| PM-NF-1.1 | Product should be displayed in home page of the website |  | Should Have |
| PM-NF-1.2 | All the products should be displayed in systematic order. |  | Should Have |
| PM-NF-1.3 | Special products that have been recommended by model should be displayed in the homepage. |  | Could Have |
| PM-NF-1.4 | All the category should be managed and displayed in a systematic way. |  | Must Have |
| PM-F.1.5 | Search bar should be fully functional. | Search Product | Must Have |
| PM-NF-1.6 | User should be able to search for products with the name of the product. |  | Must Have |
| PM-NF-1.7 | User should be able to find particular product through search bar if it is available. |  | Must Have |
| PM-F-1.8 | Admin should able to add new product to the website | Create Product | Must Have |
| PM-NF-2.0 | Admin should have add option to add a new product. When clicked, new page should be displayed through admin can add a new product. |  | Must Have |
| PM-NF-2.1 | Admin should be able to add product’s images, description, price and other information while adding new product to the website. |  | Must Have |
| PM-F-2.2 | Admin should be able to update product. | Update Product | Must Have |
| PM-NF-2.3 | Admin should have update option to update a product. When clicked, new page should be displayed through admin can update a product. |  | Could Have |
| PM-NF-2.4 | Admin should be able to update product’s images, description, price and other information while adding new product to the website. |  | Could Have |
| PM-F-2.5 | Admin should be able to delete a product. | Delete Product | Must Have |
| PM-NF-2.6 | Admin should have delete option to update a product. When clicked admin should able to delete a product. |  | Must Have |
| PM-NF-2.7 | Delete product should not be visible in both database and website. |  | Must Have |

## Order Management System (OM)

|  |  |  |  |
| --- | --- | --- | --- |
| Req.Code | Req.Desc | Use Case | MoSCoW Prioritization |
| OM-F-1.1 | All the product selected by the user must appear on the cart page with total amount and quantity of product |  | Must Have |
| OM-F-1.2 | The product on the cart page will be able to remove form the page when the user change their mind |  | Should Have |
| OM-F-1.3 | The cart must provide details of the product purchased |  | Could Have |
| OM-NF-2.1 | The user must have at least an item for the checkout |  | Must Have |
| OM-NF-2.2 | The product order cannot exceed the order quantity more than the available quantity. |  | Could Have |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Class Diagram

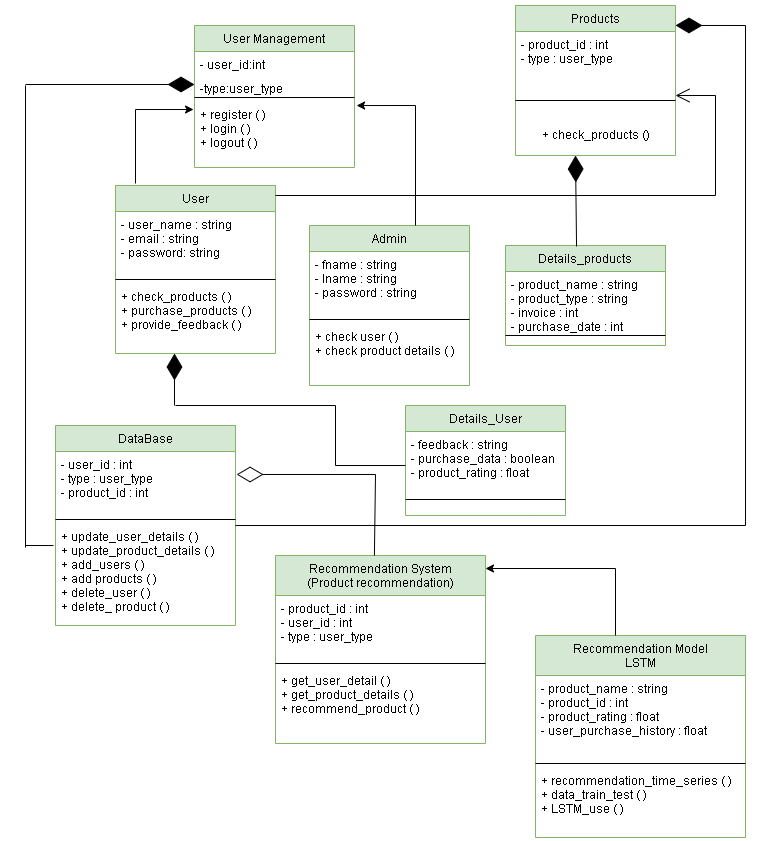


Figure 2 System class diagram

# Entity Relationship Diagram

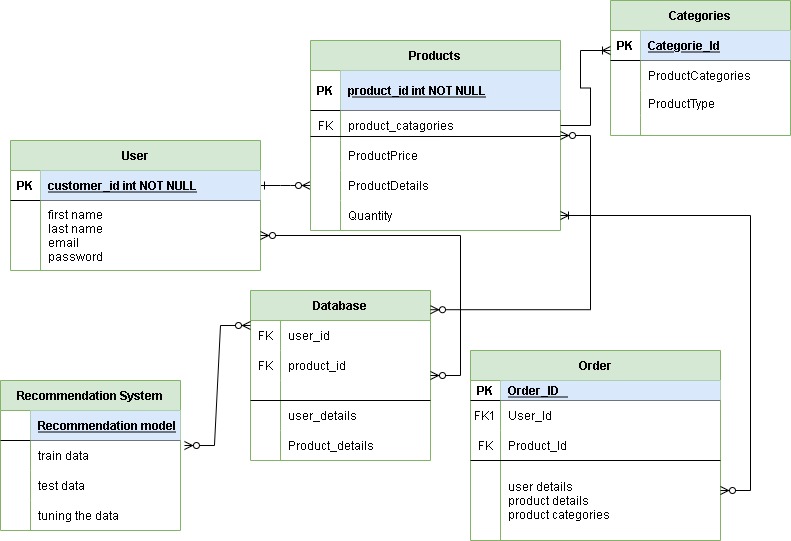


Figure 3 Entity Relation Diagram

# Use Case Diagram

## User Management (UM)

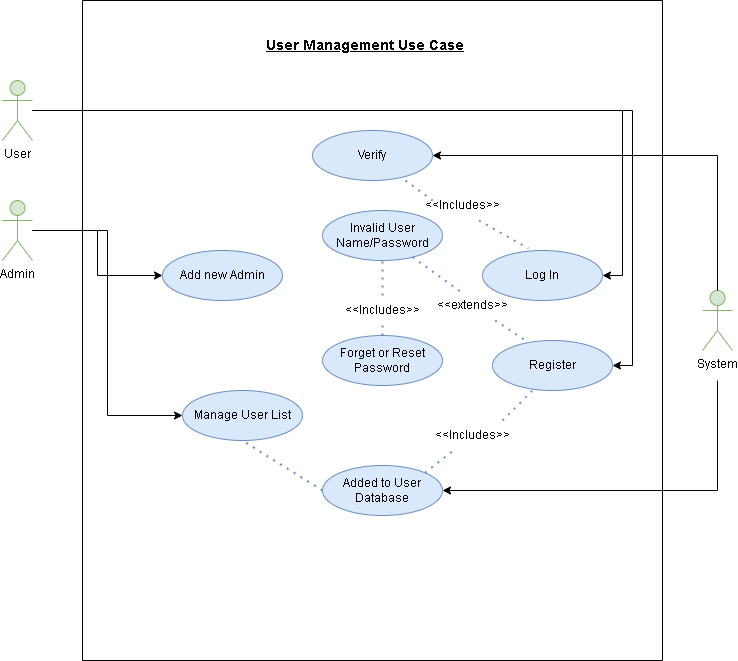


Figure 4 User Management Use Case

## Product Management (PM)

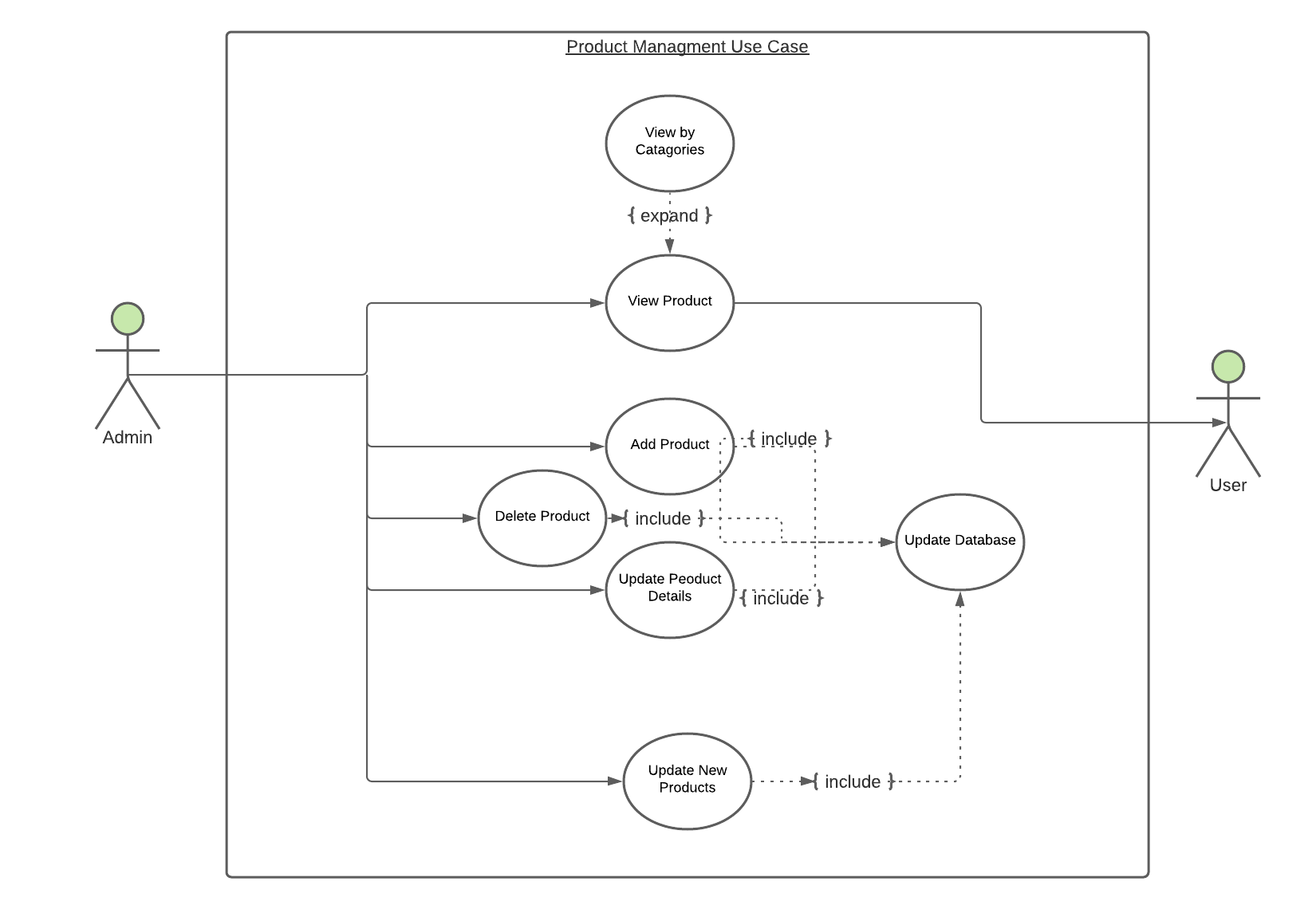


Figure 5 Product Management Use Case

## Order Management (OM)

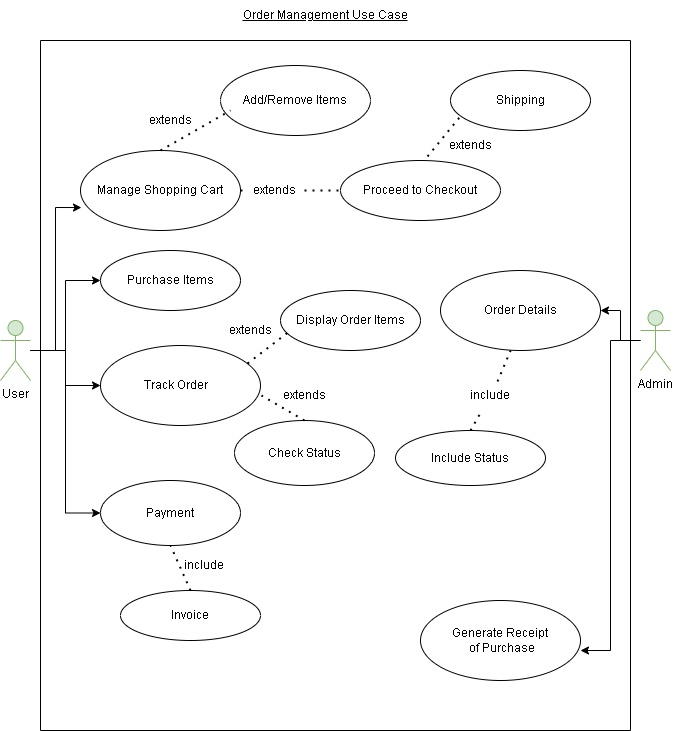


Figure 6 Order Management Use case

## Recommendation Management (RM)

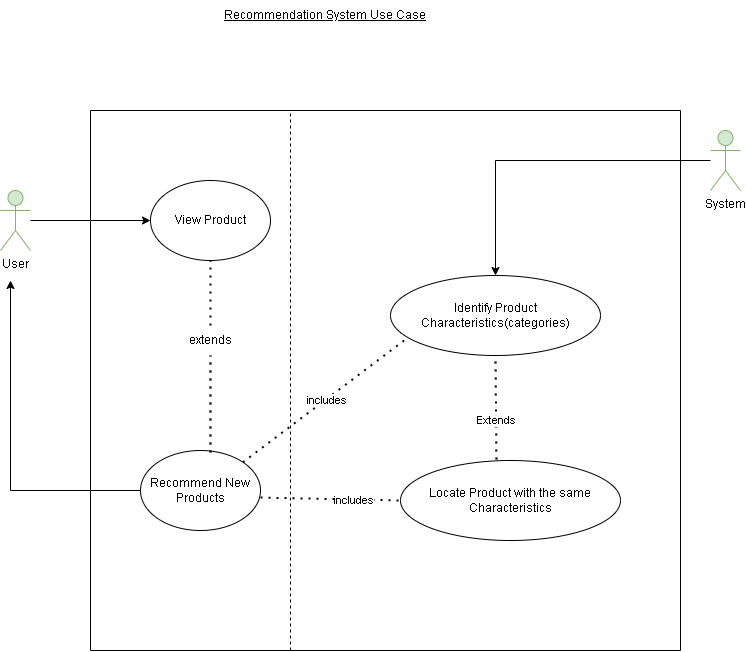


Figure 7 Recommendation Management Use case

# System Functionality with Activity and Sequence diagram

## Registration system

### Sequence Diagram

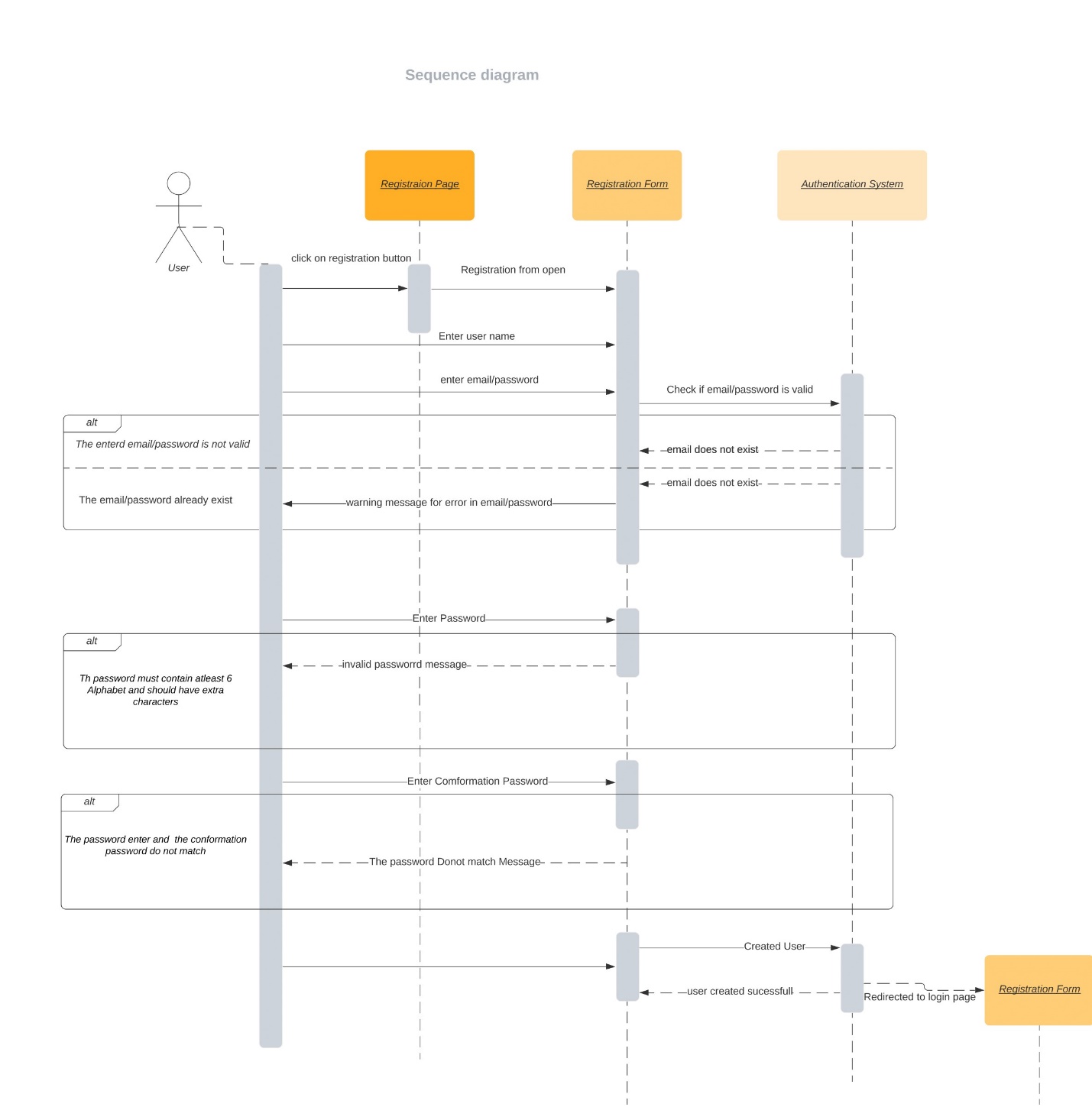


Figure 8 Registration Sequence

### Activity Diagram

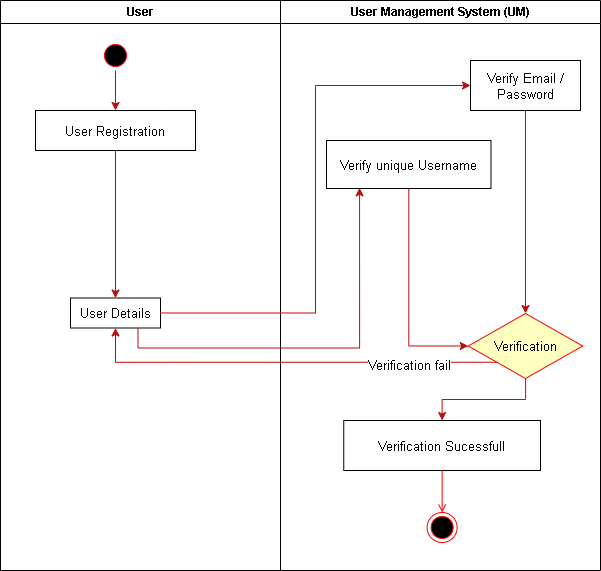


Figure 9 Registration Activity

## Login

### Sequence Diagram

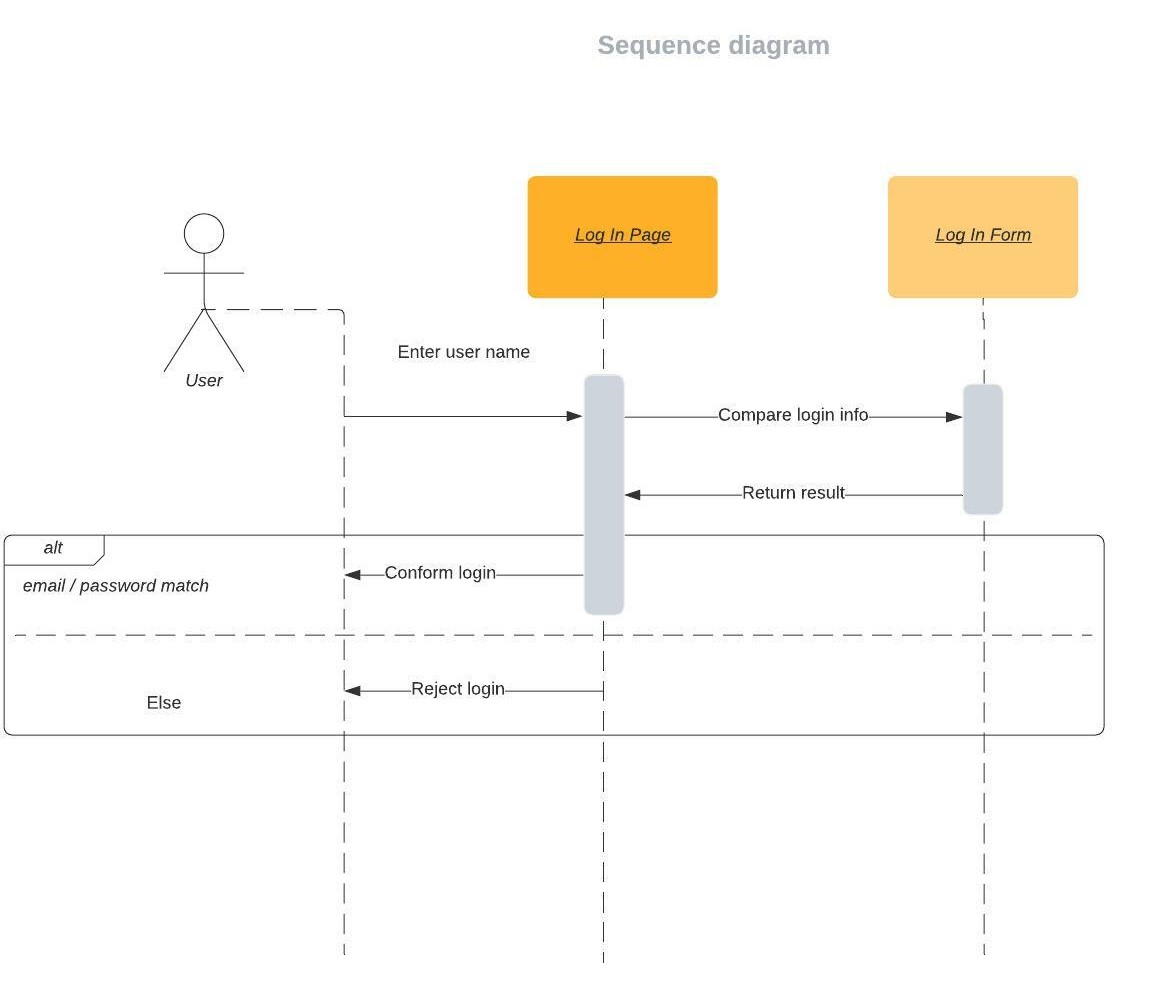


Figure 10 Log in sequence diagram

### Activity Diagram

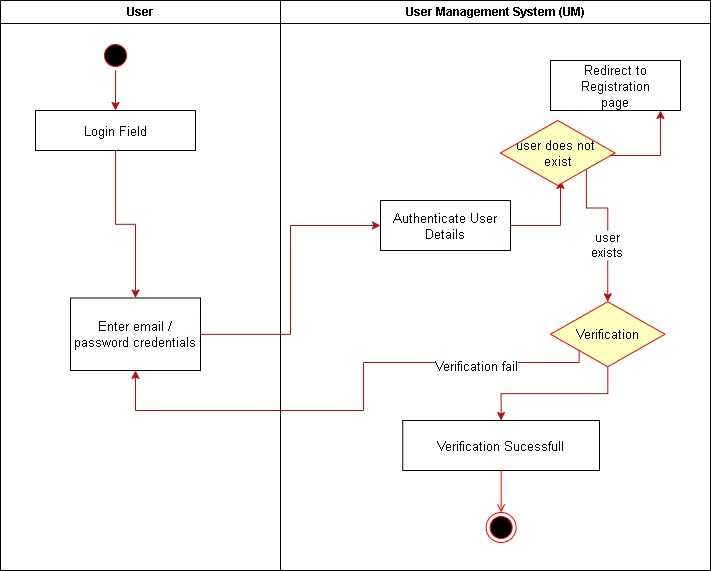


Figure 11 Log in Activity Diagram

## Adding Product

### Sequence Diagram

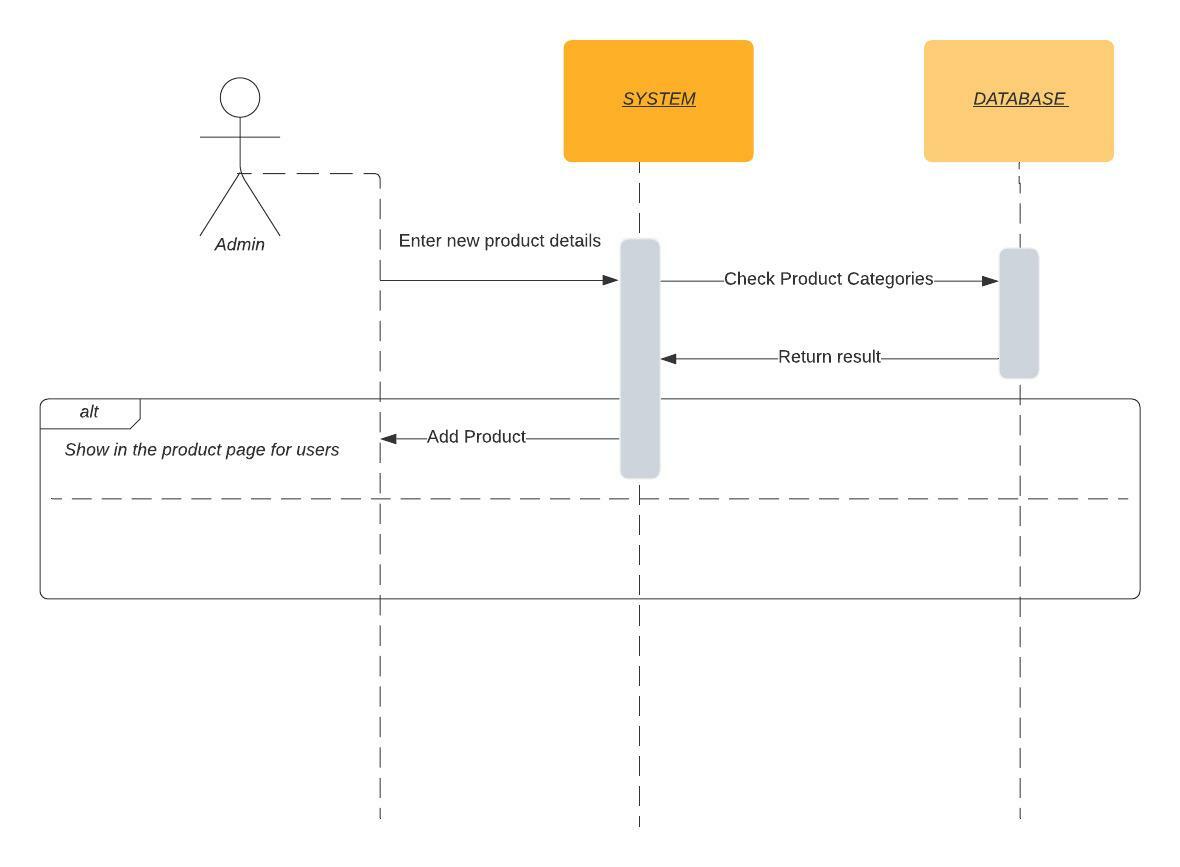


Figure 12 Adding Product Sequence Diagram

### Activity Diagram

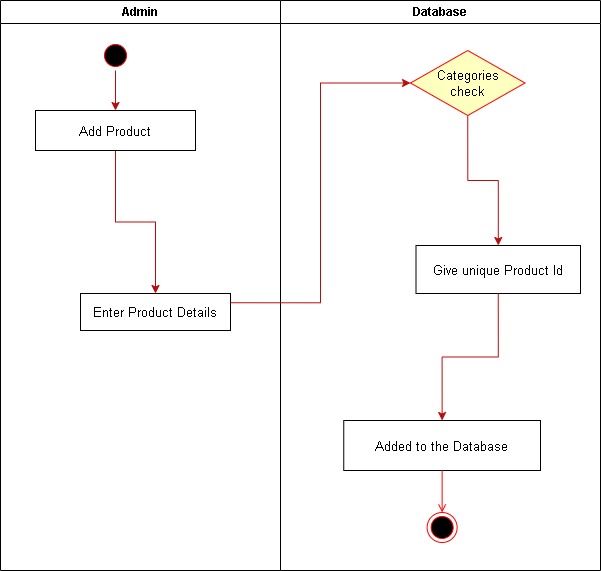


Figure 13 Adding Product Activity Diagram

## Updating Product Details

### Sequence Diagram

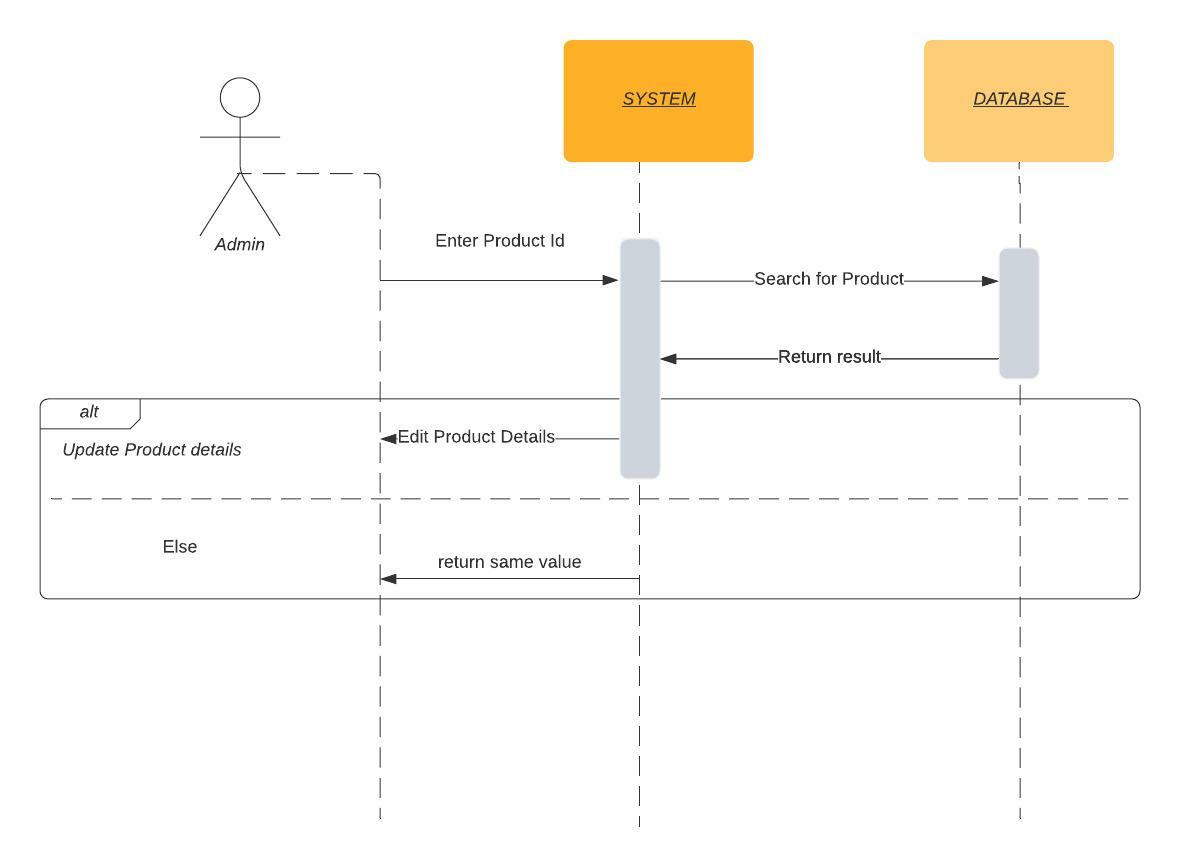


Figure 14 Updating Product Sequence Diagram

### Activity Diagram

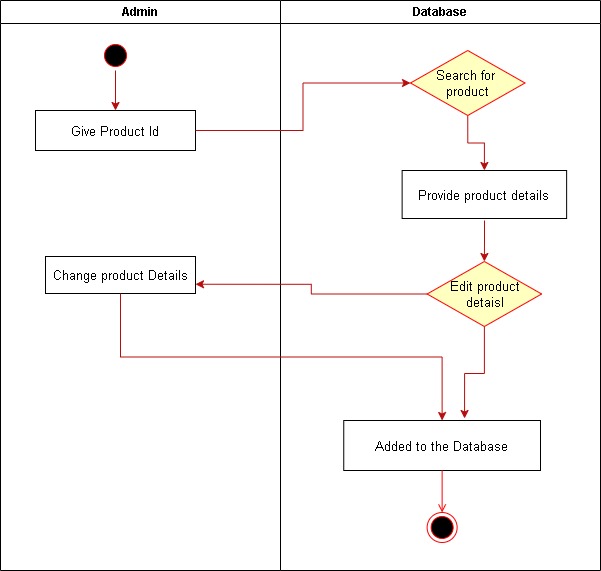


Figure 15 Updating Product Activity Diagram

# Data Dictionary

Field: name, user\_id, product\_id, email, password, product\_name, categories

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field Name | Description | Data Type | Character Length | Example | Required | Accept Null Value |
| User\_id | Store user unique id to identify user ( primary key) | Int | 100000 | 1 | Yes | No |
| Product\_id | Store product id to identify the product (primary key) | Int | 100000 | 12 | Yes | No |
| Name | Store user name | var-char | 25 | Upshot | Yes | No |
| Password | Store user password in encrypted format | var-char and int | 25 | P@ss12 | Yes | No |
| Email | Store the user email address to log into the website | var-char | 35 | @info.mail | Yes | No |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

# Wireframe

## Homepage

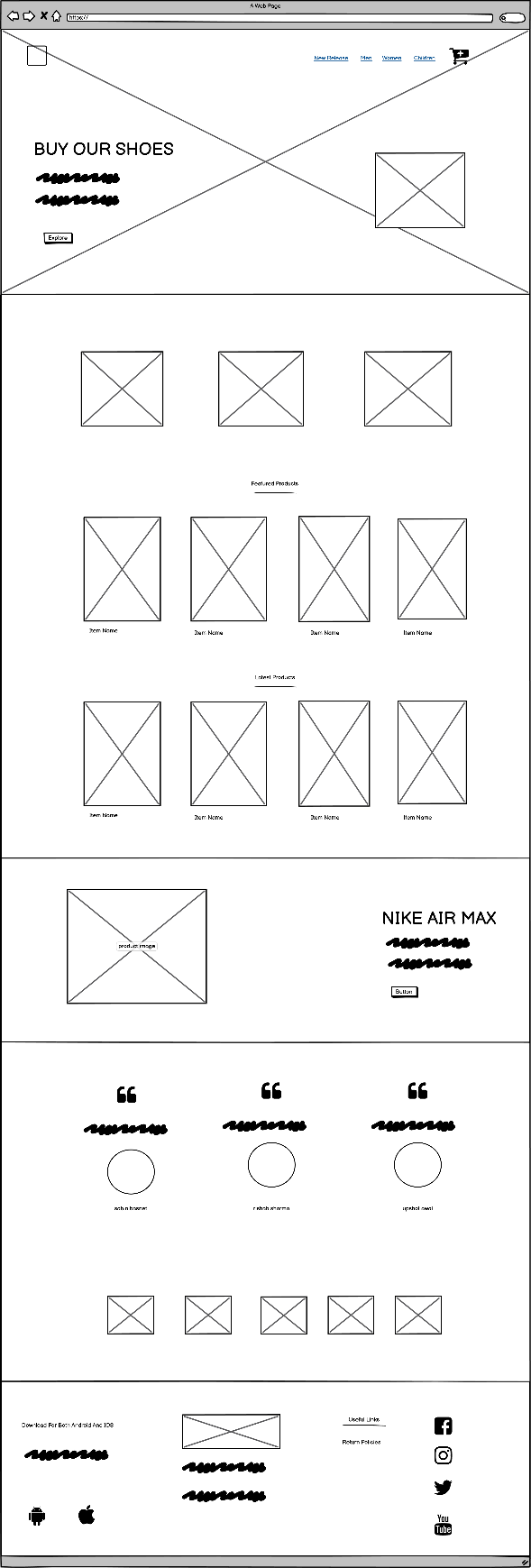


Figure 16 Home page

## Product View Page

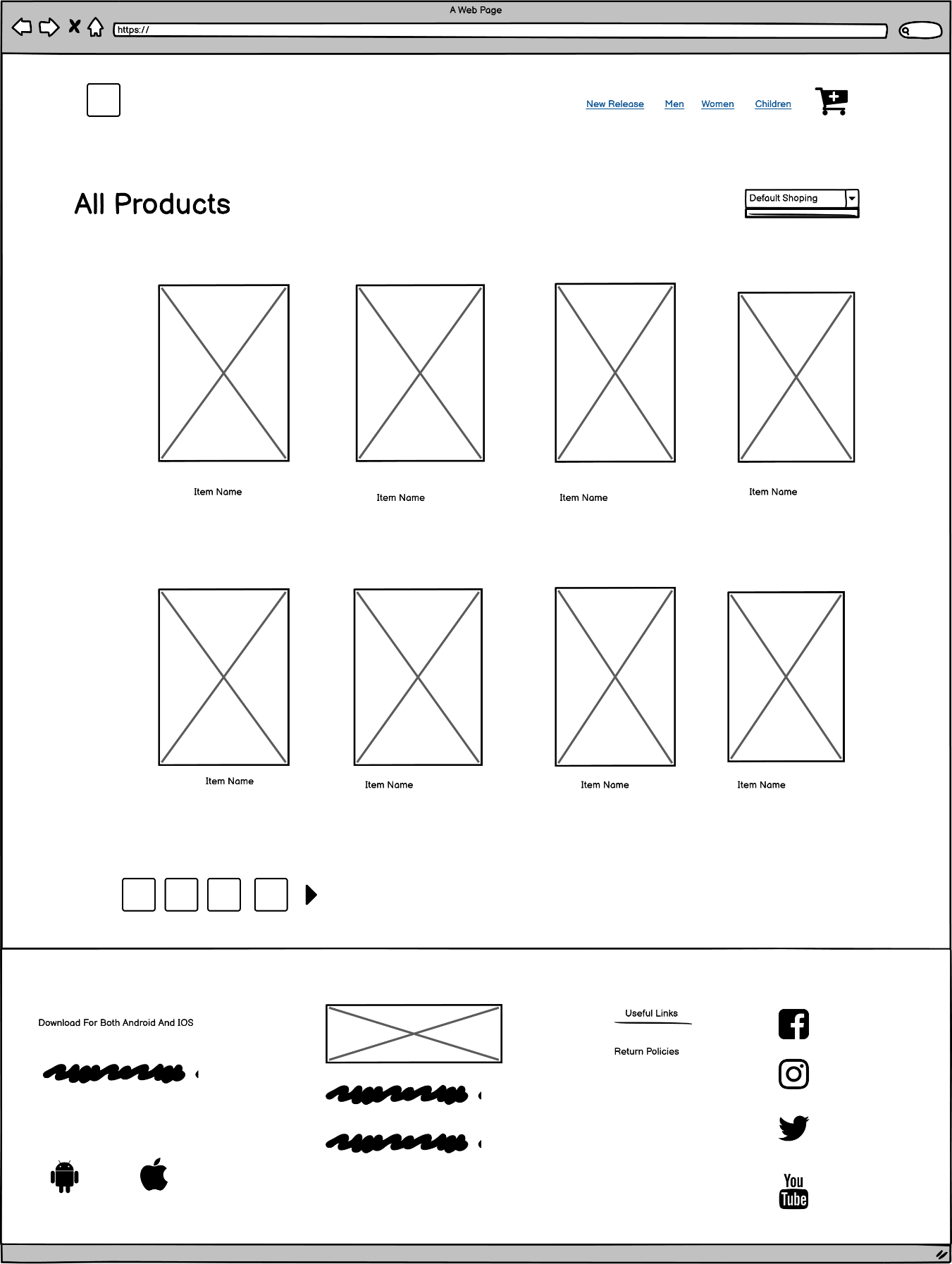


Figure 17 Product Page

## Cart Page

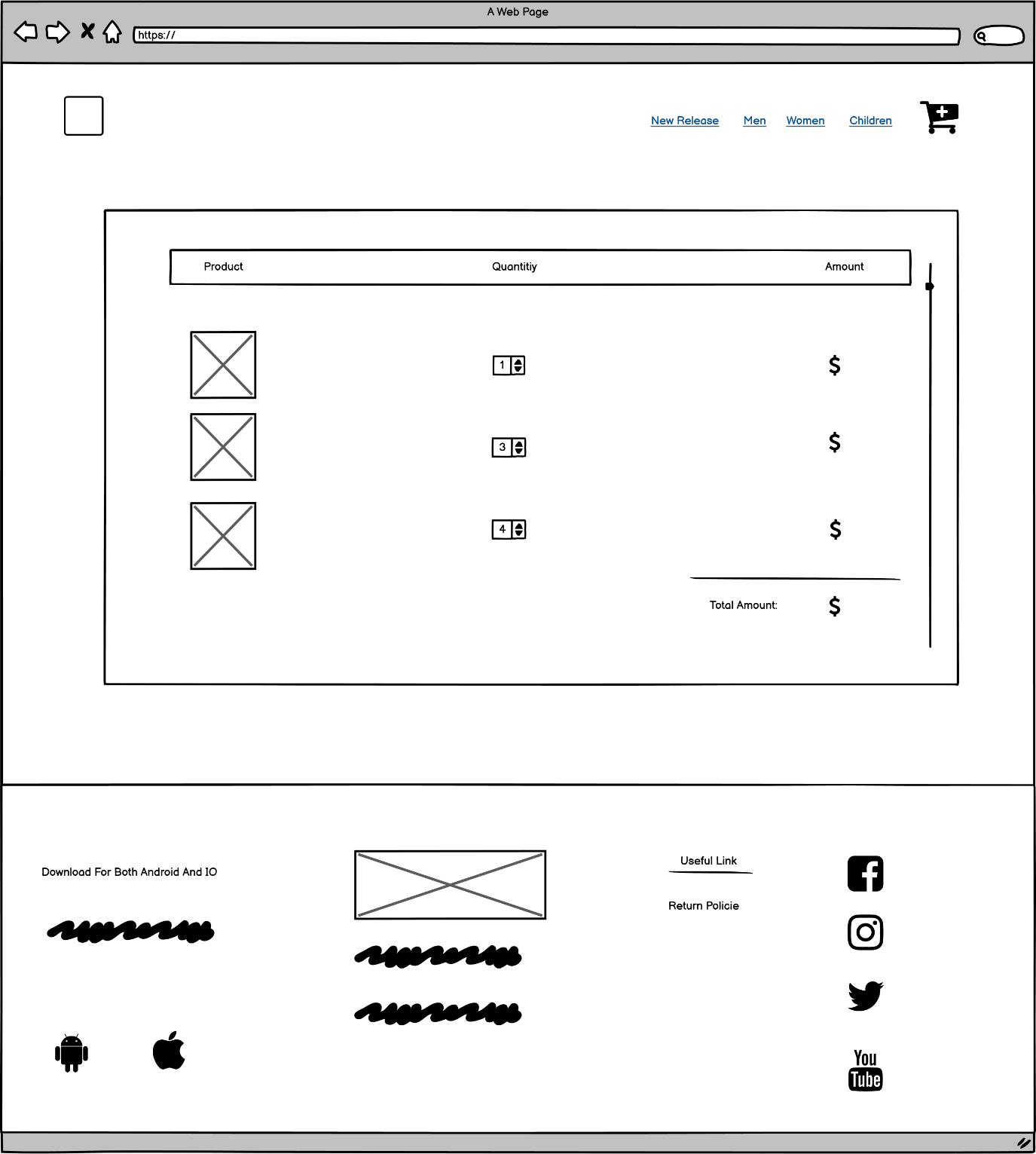
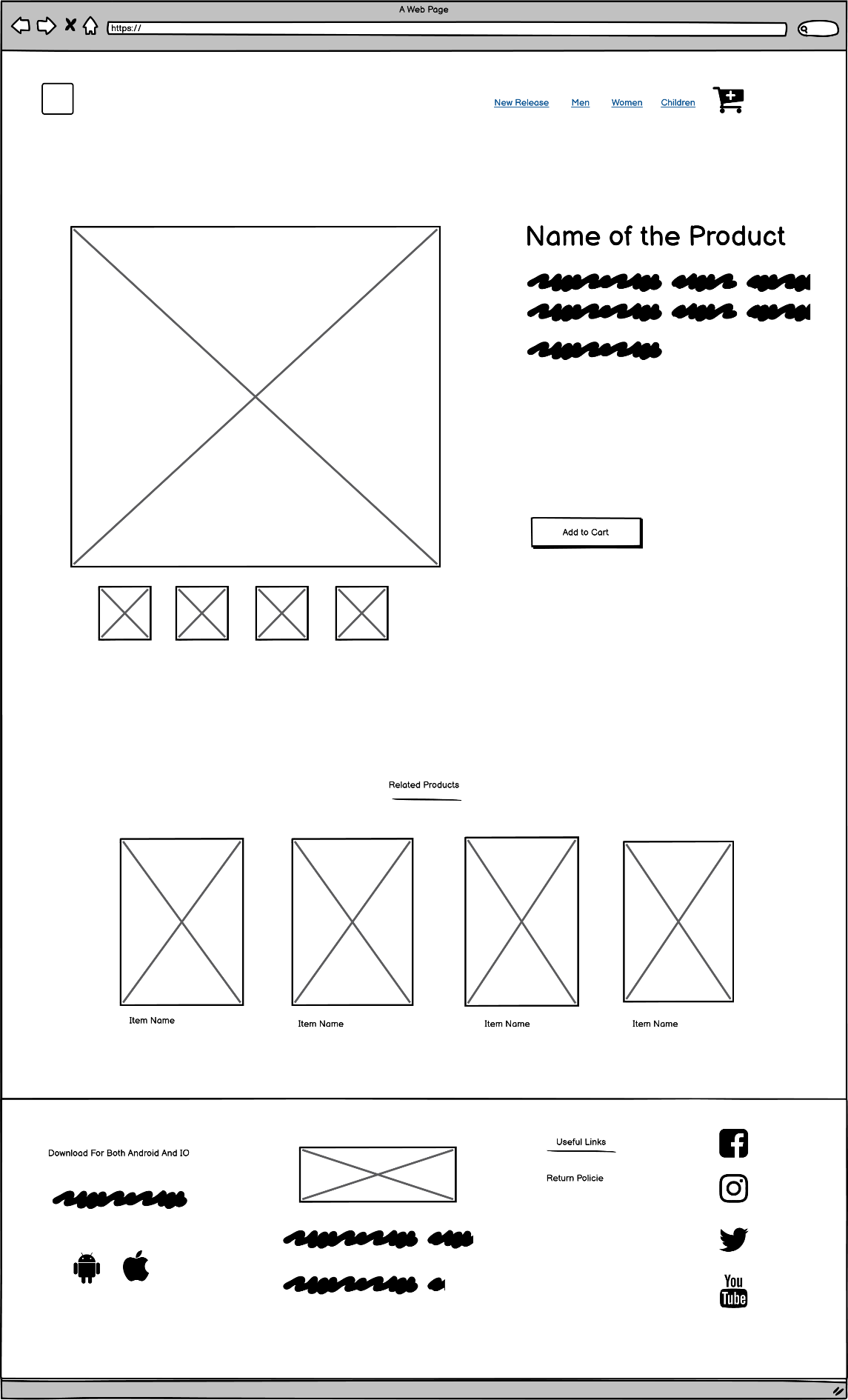


Figure 18 Cart Page

## Product Detail Page



## Payment Detail Page

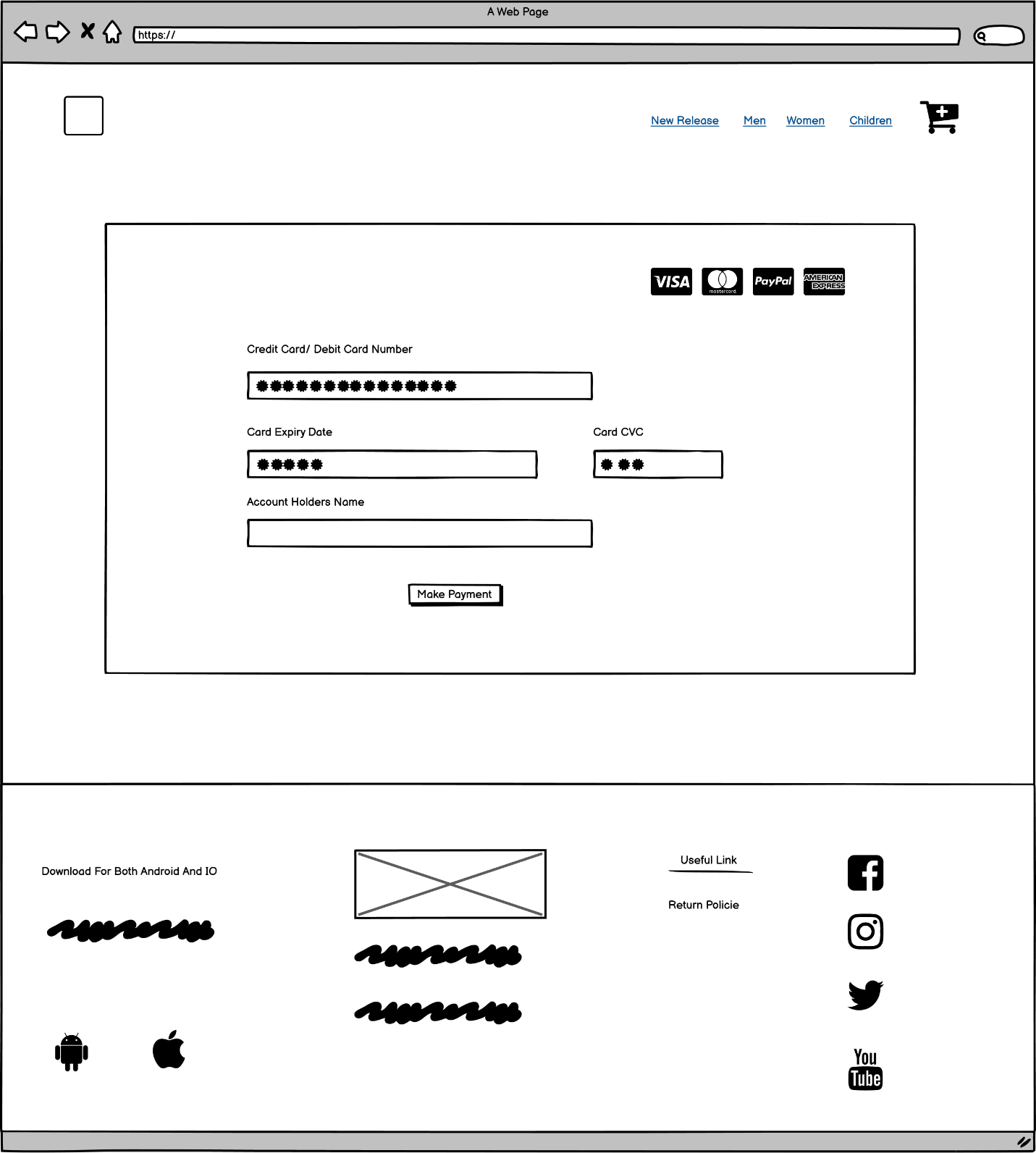


Figure 19 Payment Page wireframe

# Test Case

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TC ID | Test case Title | Pre-condition | Steps | Test Data | Expected Result | Actual Results |
| TC\_001 | Verifying Admin Login | 1. Should have admin access. | 1. Enter email id.  2. Enter Password. 3. Click on login button. | Email: admin Password: admin12345 | Admin should be redirected into administration page. | Admin is redirected into administration page. |
| TC\_002 | Verifying Admin Login | 1. Should have admin ID and Password. | 1. Enter email randomly or any unregistered email. | Email: ADMINN Password: admin12345 | Invalid email popup should show. | Invalid email popup is shown. |
| TC\_003 | Verifying Admin Login | 1. Should have admin ID and Password. | 1. Enter email id. 2. Enter random password. 3. Click on login button. | Email: admin Password: qwerty | Invalid password popup should show. | Invalid password popup is shown. |
| TC\_004 | Verifying Admin Login | 1. Should have admin ID and Password. | 1. Leave email field blank. 2. Leave password filed blank. 3. Click on login button. | Email:  Password: | Please fill in this filed popup should show. | Please fill in this filed popup is shown. |