

# IAB207: Web Application Development

## Assignment 3 Report

Group 11: Josh Buckley | Kyle Johnstone | Matilda Teitzel

### Members

- Matilda Teitzel - n10470174
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### Heroku Application

Our Heroku Application can be accessed at: <https://iab207-assign2.herokuapp.com/>

### GitHub Link

Our Github code can be accessed at <https://github.com/johnstonekyle/IAB207>

### Project Management

The following table illustrates any tasks which were completed over the expanse of the project. This is merely an indication of the rough overview as we primarily utilised the organisational and management structure of Trello to handle and track tasking.

For ease, name initials have been used to identify tasking to specific group members (MT, JB, KJ)

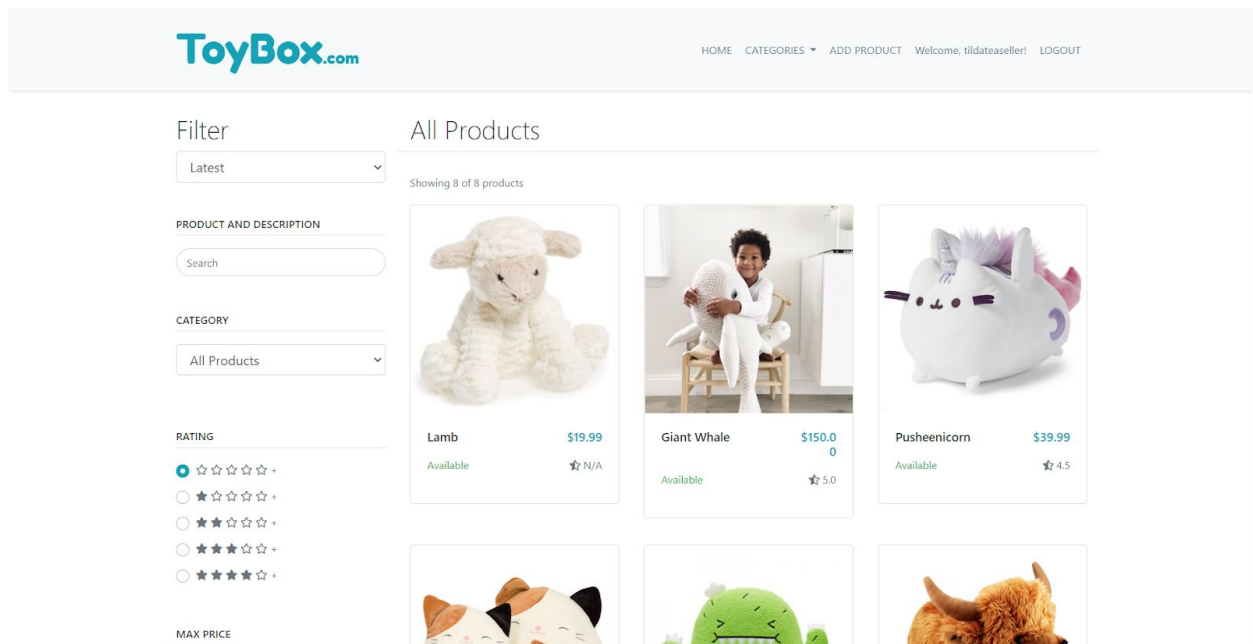
Timeline	Week 1	Week 2	Week 3	Week 4
<b>Admin Tasks &amp; Notes</b>	Conducted a group meeting. Set up the Readme document Decided on "Toy Box" Marketplace Setup Github Repository Set up and organise trello content	Focus: database and File structure  KJ - Set up skeleton code, worked on basic routing	Focus: Website Functionality	Focus: Finalise Application JB & KJ - Deploy Heroku Application MT - Write Report and Illustrate test scripts
<b>Landing Page</b>	KJ - Provided Assignment 2 HTML as Base		MT - Created Landing page of all products MT - Added category Links	MT - added filtering capabilities MT - Added dynamic forms which react to traits of the product (eg price)

<b>User Activity</b>		JB - Added User Functionalities: Registration, Login, Logout	JB - Added Buyer vs Seller Distinction JB - Navigation Validation	JB - Added Buyer vs Seller Page Verification
<b>Create Item</b>			KJ - created the add products page with database functionality	KJ - Added confirmation modal
<b>View product</b>			KJ - Created View Product Page KJ - added comment functionality	MT - Added Dynamic Out of Stock Indicators JB - Added Dynamic Buyer Status Indicator
<b>Ordering</b>			JB - Added Order Product Functionality	KJ & JB - Added Order Receipt
<b>Database Model</b>		KJ - Create sqllite database MT - revise and refine data types within the database model	KJ - Added banking details, comment title	JB - Added data types for phone number and bank details
<b>Error Handling</b>			JB - Error handling for user functionalities MT - Added Out of Stock Indicators	MT - create error 404 page KJ & JB - Error Handling for too much stock orders
<b>Styling</b>			MT - Adjust footer KJ - Added supported file error message	MT & KJ - improve mobile application flexibility

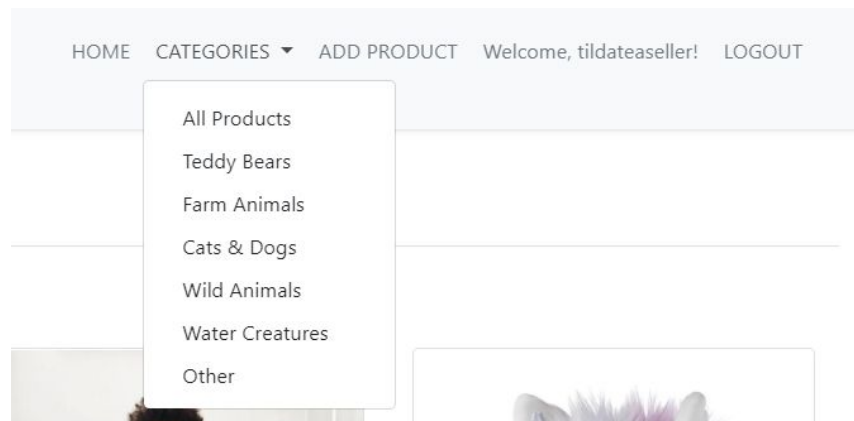
# Test Script Tasks

1. The landing page of the application will be accessed. The 'search-by-category' feature that allows a user to view items by category will be tested.

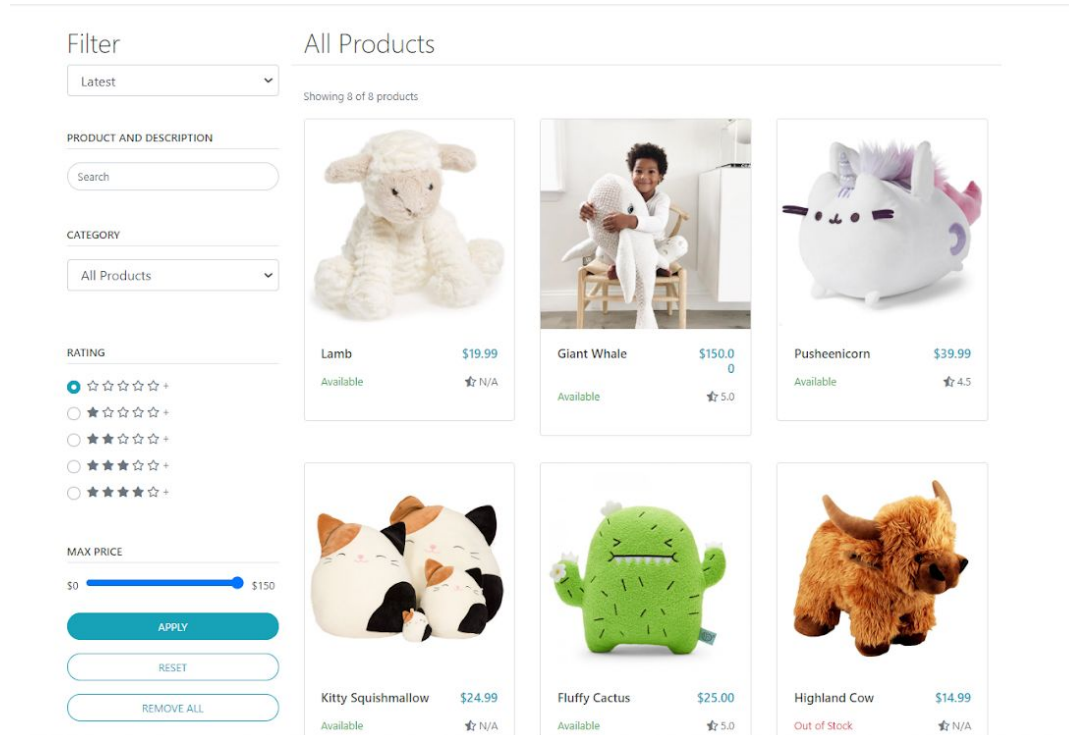
The landing page allows any users' to view the store's products. It defaults to displaying all products without filtering.



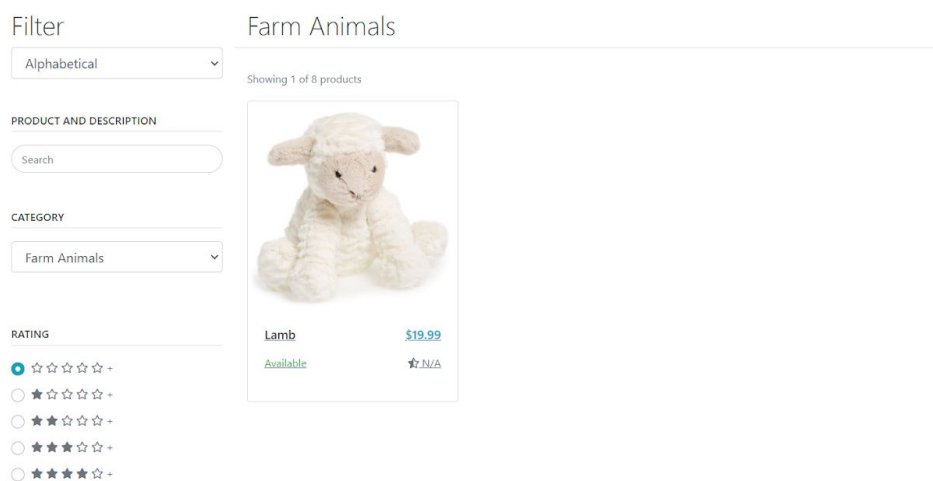
Using the navigation bar, a user can select a specific category.



You can also utilise the filtering sidebar for more specific search results as well:



Once a user selects a specific category or variety of filters, the landing page will display the relevant products. It will also indicate how many products it has identified compared to the total number of store products.




2. The details of one of the items on the landing page will be assessed. The user should be able to see the comments posted on the item

Here you can see the product page including the comments on the product post:

ToyBox.com

HOME CATEGORIES ADD PRODUCT Welcome, tildatea! LOGOUT



Angry Shiba

★ 3.33 (3 reviews)


\$18.00

GST included

CATEGORIES  
Cats & Dogs

DESCRIPTION  
this is a shiba dog

REMAINING STOCK  
Out of Stock

 kylebuyer  
★ 3.0 (4)

Order

Customer Reviews

REVIEW

Enter review

1 Star

Enter title

Post

Decent

by kylebuyer

★★★★★ 5 stars

This was a decent shiba

04/08/2011

OK Product

by kylebuyer

★★★★ 4 stars

the product was ok

04/08/2011

Too Angry

by kylebuyer


★ 1 stars

It scared my grandmother and we had to throw it away

14/06/2020

### 3. On trying to create an item, the user should be prompted to a login page.

If a user who is not currently logged in attempts to add a product to the marketplace, they are immediately sent to the following page:

HOME CATEGORIES ▾ ADD PRODUCT REGISTER LOGIN

## Login

User Name

Password

Login

New User? [Click here to register!](#)

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**4. A new user will be registered as a seller and details of the registration page will be tested.**

The registration display is as shown.

**ToyBox.com**

HOME CATEGORIES ▾ ADD PRODUCT REGISTER LOGIN

Register

User Name

Email Address

Phone Number

Bank Details (Only required if registering as a seller.)

Password

Confirm Password

☐ Do you wish to sell products?

Register

The user is then able to enter their relevant details as a seller:

Register

User Name

seller

Email Address

seller@email.com

Phone Number

0400000000

Bank Details (Only required if registering as a seller.)

123456289

Password

\*\*\*\*

Confirm Password

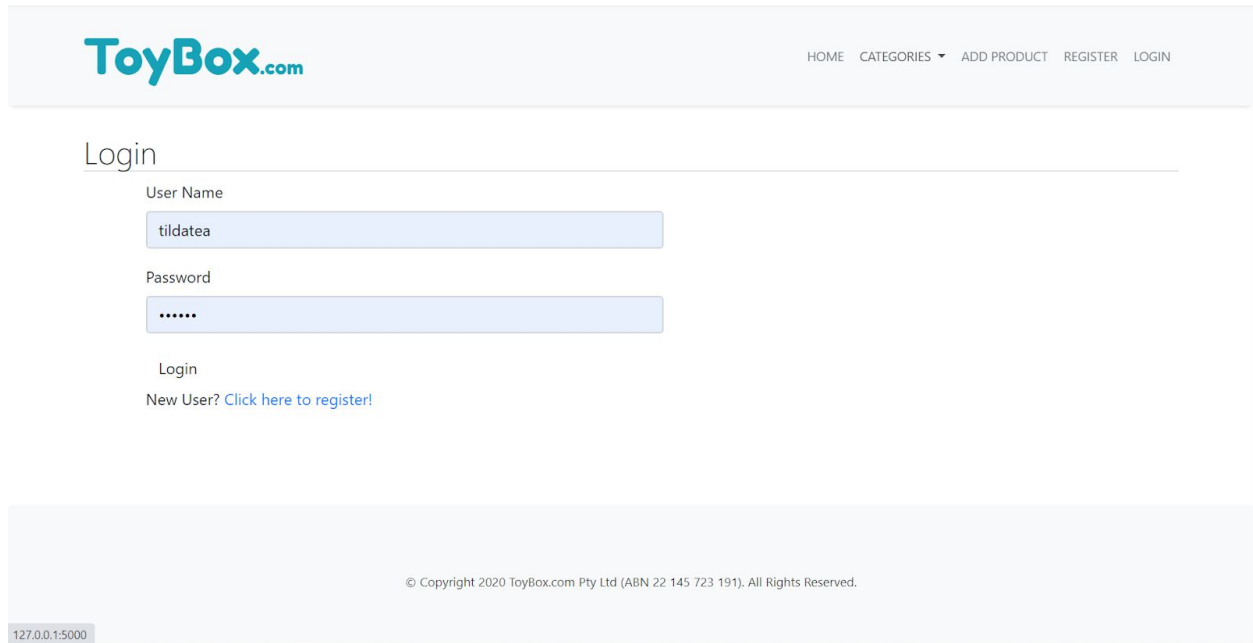
\*\*\*\*

☒ Do you wish to sell products?

Register

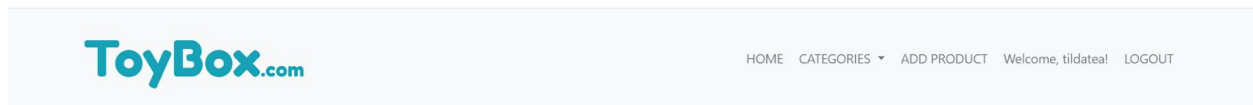
## 5. The seller will login to the application.

This displays the login process:



The screenshot shows the ToyBox.com login interface. At the top, the ToyBox.com logo is on the left, and navigation links (HOME, CATEGORIES, ADD PRODUCT, REGISTER, LOGIN) are on the right. The main heading is "Login". Below it, there are two input fields: "User Name" with the value "tildatea" and "Password" with masked characters "\*\*\*\*\*". A "Login" button is positioned below the password field. A link "New User? Click here to register!" is located below the login button. At the bottom of the page, a copyright notice reads "© Copyright 2020 ToyBox.com Pty Ltd (ABN 22 145 723 191). All Rights Reserved." and a small status bar in the bottom left corner shows "127.0.0.1:5000".

After logging in the navigation bar changes to a personalised format:

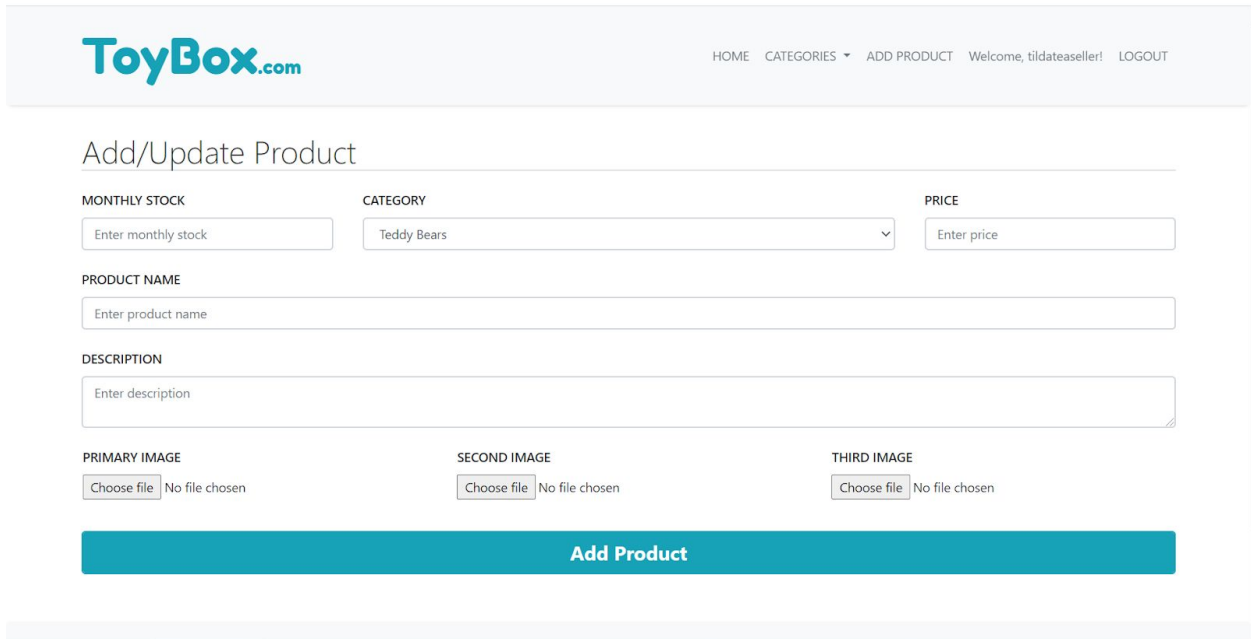


The screenshot shows the updated navigation bar after a successful login. The ToyBox.com logo remains on the left. The navigation links on the right are now: HOME, CATEGORIES, ADD PRODUCT, a personalised welcome message "Welcome, tildatea!", and a LOGOUT link.



## 6. The seller will create two items. The item creation will be tested.

Upon pressing the add product button, they view a form to add the product and can promptly fill it out.



The screenshot shows the 'Add/Update Product' form on the ToyBox.com website. The form includes fields for MONTHLY STOCK, CATEGORY, PRICE, PRODUCT NAME, and DESCRIPTION. There are also three image upload sections: PRIMARY IMAGE, SECOND IMAGE, and THIRD IMAGE, each with a 'Choose file' button and a 'No file chosen' status. A large teal 'Add Product' button is at the bottom.

**ToyBox.com** HOME CATEGORIES ▾ ADD PRODUCT Welcome, tildateaseller! LOGOUT

### Add/Update Product

**MONTHLY STOCK**  
Enter monthly stock

**CATEGORY**  
Teddy Bears

**PRICE**  
Enter price

**PRODUCT NAME**  
Enter product name

**DESCRIPTION**  
Enter description

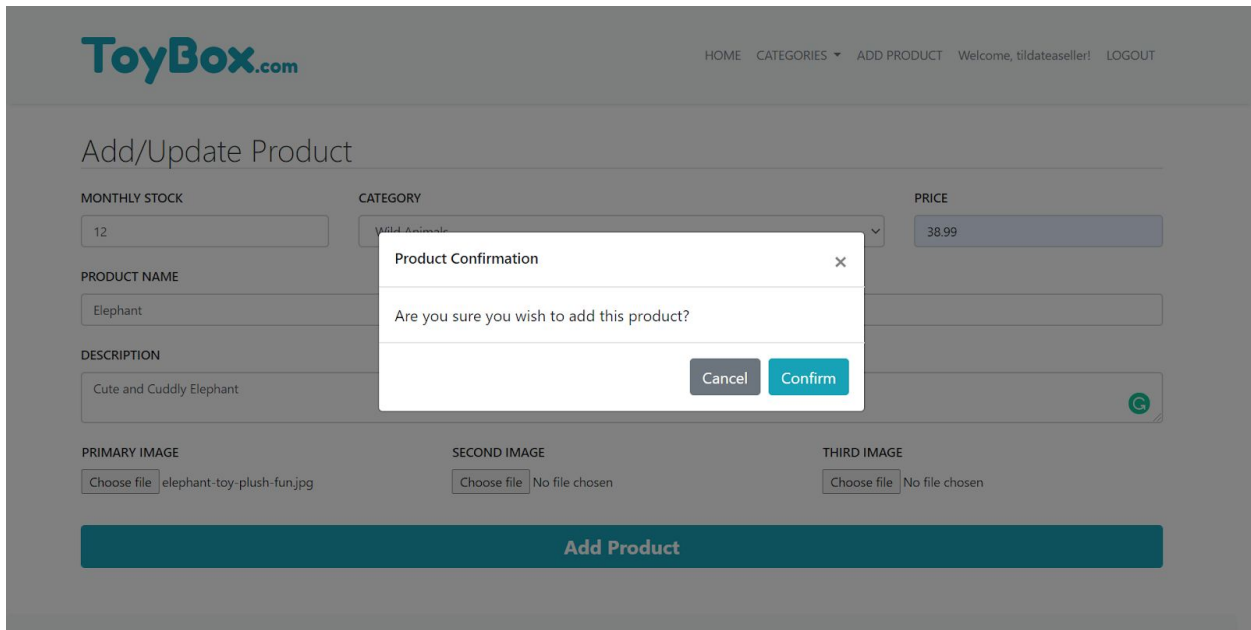
**PRIMARY IMAGE**  
Choose file No file chosen

**SECOND IMAGE**  
Choose file No file chosen

**THIRD IMAGE**  
Choose file No file chosen

**Add Product**

Upon adding the product, a confirmation modal is presented to confirm the new product:



The screenshot shows the 'Add/Update Product' form on the ToyBox.com website, now with a confirmation modal displayed. The form fields are filled with example data: MONTHLY STOCK is 12, CATEGORY is Wild Animals, PRICE is 38.99, PRODUCT NAME is Elephant, and DESCRIPTION is Cute and Cuddly Elephant. The PRIMARY IMAGE section shows a file named 'elephant-toy-plush-fun.jpg' has been chosen. A modal titled 'Product Confirmation' is centered on the screen, asking 'Are you sure you wish to add this product?' with 'Cancel' and 'Confirm' buttons.

**ToyBox.com** HOME CATEGORIES ▾ ADD PRODUCT Welcome, tildateaseller! LOGOUT

### Add/Update Product

**MONTHLY STOCK**  
12

**CATEGORY**  
Wild Animals

**PRICE**  
38.99

**PRODUCT NAME**  
Elephant

**DESCRIPTION**  
Cute and Cuddly Elephant

**PRIMARY IMAGE**  
Choose file elephant-toy-plush-fun.jpg

**SECOND IMAGE**  
Choose file No file chosen

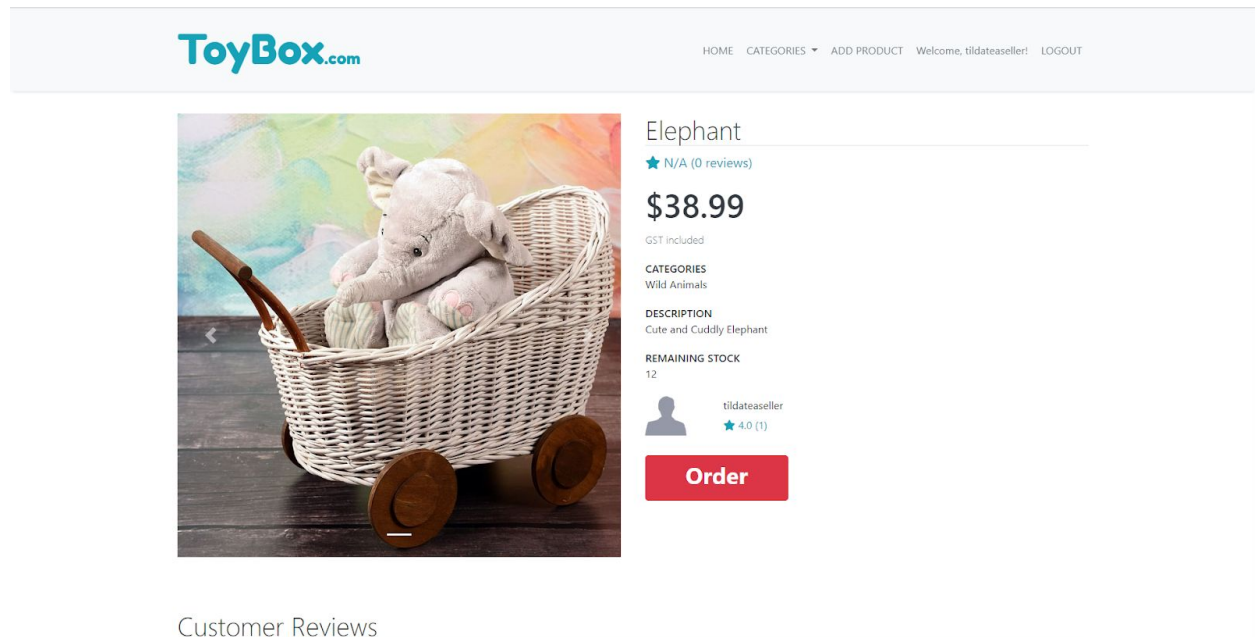
**THIRD IMAGE**  
Choose file No file chosen

**Add Product**

**Product Confirmation** ✕  
Are you sure you wish to add this product?  
Cancel Confirm

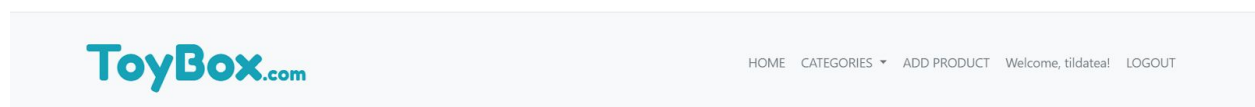
Upon pressing confirm, they are then redirected to the new product's view page, as illustrated here:

In this image, the order button is disabled since the user is logged in as a buyer.

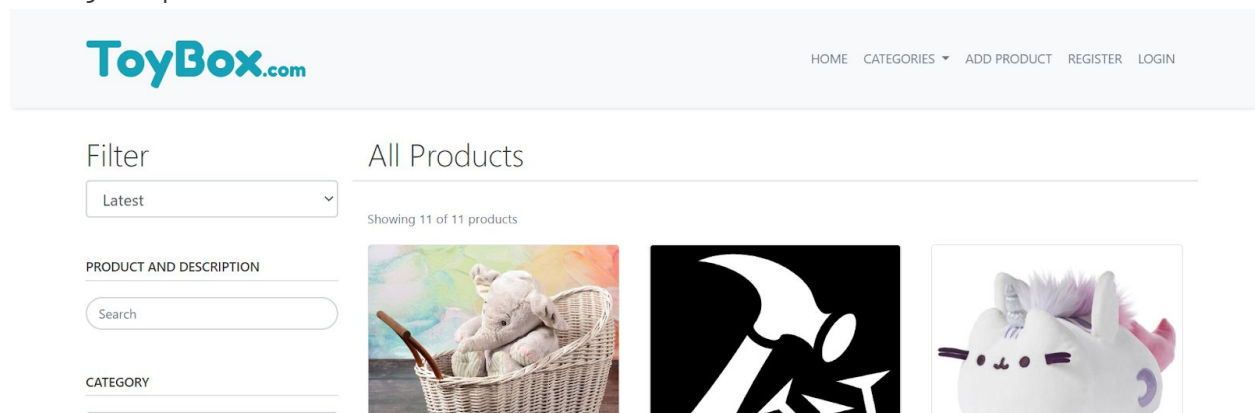


## 7. The seller will log out of the application. Logout functionality will be tested.

To logout, a buyer or a seller can press the logout button




This will immediately logout the user, and take them to the landing page with a login option instead of a logout option.



8. The 'buy an item' functionality will be tested. A user should be taken to the login page if a user is not logged-in.

After perusing the landing page and selecting a product to view, a potential buyer may press the 'order' button (if the product is still available. If the current user is not logged in as a buyer, the following tooltip and error message will be displayed, indicating the user should login to access this content.




**ToyBox.com**

HOME CATEGORIES ▾ ADD PRODUCT REGISTER LOGIN

**CATEGORIES**  
Other

**DESCRIPTION**  
The legendary Super Pusheencorn spreads joy and light wherever she flies with her sparkling horn leading the way! This special Squeezer version of Pusheen's popular Super Pusheencorn persona features her iconic indescent horn and a crescent moon as well as white wings that flap when you squeeze her tail!

**REMAINING STOCK**  
15

 tildateaseller  
★ 4.0 (1)

**Order**


You must be logged in as a buyer to purchase products!

**Customer Reviews**

Love it! by tildatea

14/06/2020

Once the user has logged in as a buyer, they can access the order page:



HOME CATEGORIES ▾ ADD PRODUCT Welcome, tildateal! LOGOUT

### Order Confirmation

**Quantity**

**State**

**City or Suburb**

**Postcode**


**Address**

**Additional Information**

**Confirm Order**

9. The buyer will login and enter a quantity of the item that is higher than the items available in 'stock'. The user will be prompted with an appropriate error message.

If the user completes the order form, and attempts to confirm it with a quantity greater than the available stock, they will be returned to the order page and will receive an error message:



HOME CATEGORIES ▾ ADD PRODUCT Welcome, tildateal! LOGOUT

## Order Confirmation

Sorry, you can currently order only 15 units of this item.

Quantity

Enter quantity

State

QLD ▾

City or Suburb

Enter city or suburb

Postcode

Enter postcode

Address

Enter address

Additional Information

Enter additional information

Confirm Order

10. The buyer will enter a lower quantity of items. The buyer should be able to order the item by entering relevant details for ordering an item. An order-id will be provided to the buyer.

The buyer can lower the quantity of items and complete the order form:

The screenshot shows the 'Order Confirmation' page on the ToyBox.com website. The header includes the logo and navigation links: HOME, CATEGORIES, ADD PRODUCT, Welcome, tildeat! and LOGOUT. The form contains several input fields: Quantity (15), State (QLD), City or Suburb (Brisbane), Postcode (4000), and Address (4/18 Brisbane Street). There is an 'Additional Information' section with a text area containing 'Please arrive between 9am-9pm' and a red '2' icon. A large teal 'Confirm Order' button is at the bottom.

Upon pressing confirm, they will be prompted with a modal which will allow them to confirm their order before proceeding.

This screenshot shows the same 'Order Confirmation' form as above, but with a modal dialog box open in the center. The modal is titled 'Order Confirmation' and contains the question 'Are you sure you wish to order this product?'. It has two buttons: 'Cancel' and 'Confirm Order'. The background form is dimmed, and the 'Confirm Order' button at the bottom of the form is also visible.

Once the buyer confirms their purchase, they will taken to a docket of their purchase, illustrating an order ID for them to retain.

**ToyBox.com**HOME CATEGORIES ▾ ADD PRODUCT Welcome, tildateal! LOGOUT

### Your Order

**Your Order ID:** 19

**Sent To Address:** 4/18 Brisbane Street

**Quantity of Items Purchased:** 15

**Total Cost of Purchase:** \$584.85

**Time Purchased:** Monday 15/06/2020, 06:01 PM

### Product Information

**View Product:** [Click here](#)

**Product Name:** Pusheenicorn


**Price per Unit:** \$38.99

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## 11. The item details should now show 'out-of-stock'

Upon returning to the product listing, the buyer can now see that the product has been completely bought out.

**ToyBox.com**HOME CATEGORIES ▾ ADD PRODUCT Welcome, tildateal! LOGOUT



### Pusheenicorn

★ 4.0 (1 reviews)


**\$38.99**

GST included

**CATEGORIES**  
Other

**DESCRIPTION**  
The legendary Super Pusheenicorn spreads joy and light wherever she flies with her sparkling horn leading the way! This special Squeezer version of Pusheen's popular Super Pusheenicorn persona features her iconic iridescent horn and a crescent moon as well as white wings that flap when you squeeze her tail!

**REMAINING STOCK**  
Out of Stock

tildateaseller  
★ 4.0 (1)

**Order**

Unfortunately, I am Out of Stock for this month. Check in on me later!

## 12. The buyer should be able to post comments on the item.

A buyer can provide feedback on products by viewing the Customer Reviews portion of the product page.

**ToyBox.com**

HOME CATEGORIES ▾ ADD PRODUCT Welcome, tildatea! LOGOUT

Customer Reviews

REVIEW

Beautiful but slightly faded colours. My family loves it though!

3 Stars ▾

Beautiful, but poor quality

Post

**Love it!** by tildatea 14/06/2020

★★★★ 4 stars

This is really cute and unusual.

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Once they press post, they can view their newly added comment on the products page, which they shall remain on.

Customer Reviews

REVIEW

Enter review

1 Star ▾

Enter title

Post

**Love it!** by tildatea 14/06/2020

★★★★ 4 stars

This is really cute and unusual.

**Beautiful, but poor quality** by tildatea 15/06/2020

★★★ 3 stars

Beautiful but slightly faded colours. My family loves it though!

## **Additional Features of Marketplace**

### **1. Filtering system**

To aid potential users in their search of the ideal product, they are able to refine product results by multiple inputs. This improves the basic categorical function. These include:

- Search for specific phrases within the description or name.
- Organise the display of items alphabetically, by most recently released, price low-to-high and price high-to-low
- Search for products of a specific average rating or higher
- Limit the maximum price of products displayed.
- Once again, provides another element to adjust specific category searching

The user is able to update these filters ongoing, reset the current values, or return to the original, standard display of products. This ability also allows users to provide multiple queries, with a display which responsively displays their selected options.