BOILER X

PRODUCT TESTING INSTRUCTIONS

PURDUE UNIVERSITY
CS40800
Software Testing

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Introduction

BoilerX is an online website that can be easily accessed through a url and provides a convenient environment for Purdue students to trade goods and services. The BoilerX online platform was designed to replace Facebook groups such as *Purdue Free & For Sale* and *Purdue Textbook Exchange*, which are basically forum pages that serve as highly inefficient marketplaces for Purdue students to trade goods. The final project allows sellers to post items, set a price for them and upload corresponding pictures for the items. On the other hand, buyers are able to search for specific items through a search bar and buy suitable items.

System Requirements

- Computer with Operating System
- Web Browser
- Internet Access

Test Setup

The test environment supplied by the development team will require users to sign up on BoilerX using their Purdue email accounts. After signing up, users will be given privileges based on whether they serve the role of a buyer or a seller. Sellers will have all the privileges of buyers with the addition of being able to edit their posted items.
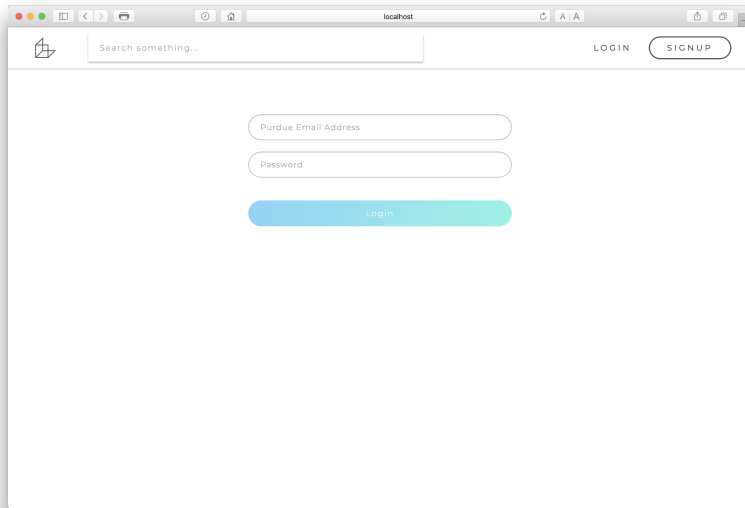
The development team will also provide a suitable testing environment which allows users to test the system using black-box testing methods.

Program Structure
Authentication Functions

The authentication feature contains the following functionality:
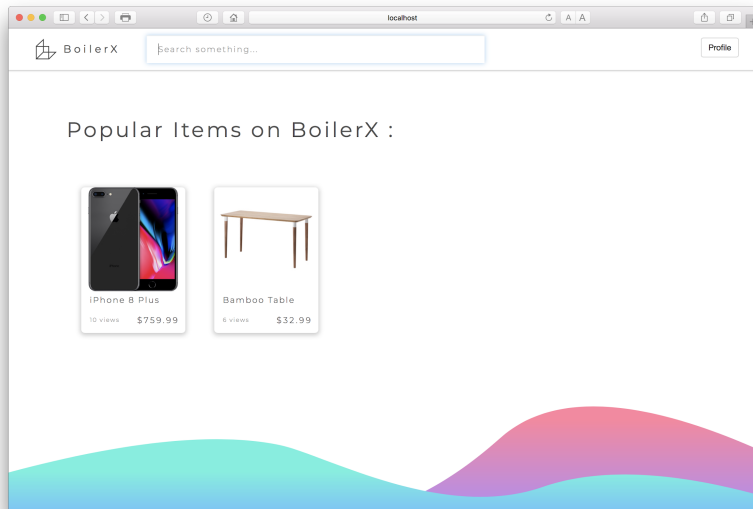- Sign up with Purdue email and receive confirmation code
- Log in with Purdue email and password
- Log out

Buy Item Functions

The buy item feature, buy, contains the following functionality:

- Input of keyword to search for item
- Selection of item for purchase
- Web push notification and email notification after purchase
- Navigation between the above mentioned steps with mouse and keyboard

Sell Item Functions

The sell item feature, sell item, contains the following functionality:

- Input of item information
- Upload of item picture
- Submission of Item

Profile Management Functions

The profile management feature, edit profile, contains the following functionality:

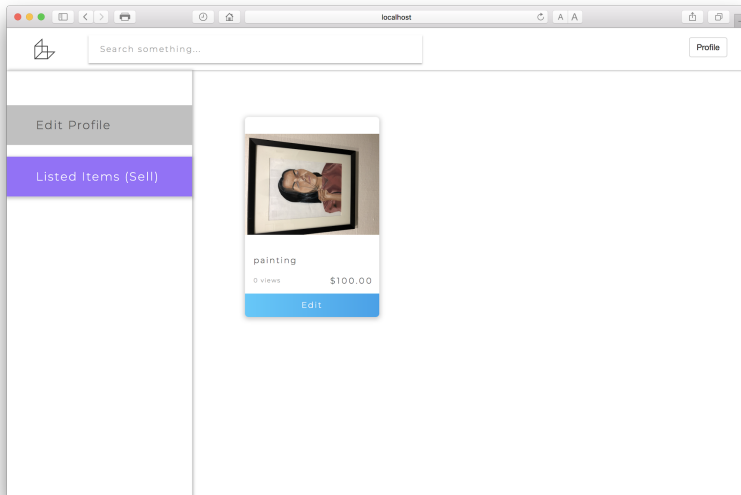- Change of username
- Upload of profile picture

Item Management Functions

The item management feature, edit, contains the following functionality:

- Change of item information
- Upload of item picture
- Submission of item change
- Removal of item

Basic Operation

The sections below describe how users interact with the system and perform black-box testing.

UI Controls

Basic controls are common across the online platform. The easiest way users can move between UI elements is by using a mouse. If that option is not available, the shift-tab key can be used to move backwards through UI elements, while the tab key allows users to move forward through UI elements. The up and down arrow keys can be used to select items within a drop-down menu. The spacebar or enter key allows user to select an item or element.

User Authentication

User authentication is carried out through the Signup, Login, and Logout interface.

Signup
1. Go to home page
2. Click signup
3. Input email address, username, password, and confirm password
4. Click sign up
5. Enter confirmation code that is sent to the email address entered
6. Click verify

Login
1. Go to home page

2. Click login
3. Input email address and password
4. Click login

Logout
1. Click profile on the top right corner
2. Select logout

Browse Item

Browse item can be done on the search bar on any interface or on home page.

Search bar
1. Click on search bar
2. Input keywords
3. Press enter

Home page
1. Go to home page
2. The most popular items(non-clickable) are on home page ranked from the most views to the least views. (note: users won't be able to see popular items if they are not logged in)

Purchase Item

Purchase item can be done on after results of search item are displayed.
1. Click on particular item after searching (view count on that item will increase by 1)
2. Click buy button
3. Click ok on push notification
4. Seller receive an email about the purchase

Item Information Submission

Item information can be submitted or modified through sell item, edit item, and delete item.

Sell item
1. Click on profile
2. Select Sell Item on the drop-down menu
3. Input item name, price, description
4. Choose item picture from local directory
5. Click post

Edit item

1. Click on profile
2. Select Profile & Items on the drop-down menu
3. Click Listed Items (Sell) on the left panel
4. Click Edit on the item you wish to edit
5. Change name, price, description or item picture
6. Click save

<u>Delete item</u>
1. Click on profile
2. Select Profile & Items on the drop-down menu
3. Click Listed Items (Sell) on the left panel
4. Click Edit on the item you wish to edit
5. Click delete

Profile Information Submission

Profile information can be modified on edit profile interface.
1. Click on profile
2. Select Profile & Items on the drop-down menu
3. Click Edit Profile on the left panel
4. Change username and/or profile picture
5. Click save

Test Information
Website Connection

URL Link: https://gentle-eyrie-15050.herokuapp.com/

Test Account

All information is case sensitive.

Login Email	Password
schewshu@purdue.edu	test123456