304 PROJECT DOCUMENTATION

1. Introduction

1.1 Purpose of Document

Provide a detailed overview of the structure and implementation utilized to develop an E-commerce website for the distribution of Exotic pets.

1.2 Mission Statement

"Providing a selection of rare wildlife species on demand!" Our goal is to be the leading market in delivering high quality and unique foreign species following legal and safe measures for our customers. We yearn to flourish our customer satisfaction by providing excellent customer service throughout every purchase.

1.3 Executive Summary

ExoPets, headquartered in Cape Town, was founded in 2022; contributing to a range of different exotic animals that can be reserved and bought at the click of a button. Exotic pets are relatively rare that immediately grab the public's attention. Our customers will have a variety of options extending from the type of unique mammals to reptiles to arachnids and more. We strive to provide efficient instructions on our website and demonstrate on how to build a safe and healthy environment for the selected pet.

ExoPets continues to construct a network of supplies so the captive pets can flourish and guidance can be distributed to the customers, thus, acknowledging these magnificent species with awareness and care.

The ExoPets website allows users to select from a variety of foreign species through effortless navigation. While browsing and shopping, customers can search for any known animals or filter by category such as the type (gender/genus) and size of the desired animal with addition to preferred range of price. All of the animals are logged with a description, price, image, and size.

To order an exotic pet from our website, the user/buyer must create an account in order to purchase the specific animal(s). To create an account, the user is required to provide their full name, email, residential address, username, and a secure password. This is a

necessity so the user can be correlated with the designated purchases in the database in case of order mishaps or issues. Then only the username and password will be needed to begin a journey of finding the perfect exotic pet for you! Below we have laid out our walkthrough of the website with descriptions and screenshots.

2. System Features:

Final Overall System Features	Category	Possible Points	Points	Comments / Code Files
Documentation (10 total points)				
Executive Summary (up to 1 page)	Core	2	2	Included executive summary and mission statement, see 1 Introduction
System Features (2 pages)	Core	2	2	This document outlines system features
Walkthrough with screenshots (up to 10 pages)	Core	6	6	See 3 Website Walkthrough, includes screenshots
Main/Home Page (up to 14 total points)				
Search for a product by name	Core	1	1	Can search by name in listprod.jsp
Browse products by category	Core	1	1	Can sort by category in listprod.jsp
List products (by search/browse)	Core	1	1	Lists all products by default and

				can filter in listprod.jsp
List products with image	Core	1	1	Images are listed for each product in listprod.jsp
Page header with menu	Basic	1	1	Menu header with username, main screen, admin, info, your cart, your orders, and logout. In listprod.jsp and others
Page header shows current logged in user	Basic	1	1	Header shows logged in user
Dynamic products on page based on sales	Basic	2	2	Dynamic product search, where user can select page that shows top 5 most popular products. listprod.jsp
Improved UI (user- friendly, images, etc.)	Basic	2	2	Images, simple labelled buttons, header menu bar all improved UI
Product recommendation based on user	Advanced	4	4	Product recommendation based on the users previous purchases. Recommends the products most purchased

Shopping Cart (up to 9 total points) Add to shopping cart View shopping cart Core 1 1 1 Can add to cart. Addcart jsp View cart and option to checkout or continue shopping. Addcart,jsp Improved formatting/UI (e.g. in header bar) Checkout (up to 9 total points) Checkout with customer id Core 1 1 Checkout with payment/shipment info Info Multiple shipments per order supported Calculate taxes/shipping (by items/state) Advanced 2 Advanced Advan					by them sorted by descending purchased amount. In listprod.jsp
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	taxes/shipping (by	Advanced	2		-

Product Detail Page (up to 3 total points)				
Product detail page and item description	Core	1	1	Product details show up including images, description and add to cart option. In product.jsp
Product detail has an image	Core	1	1	Each has an image
User Accounts/Login (up to 16 total points)				
Create user account page	Basic	3	3	Can create an account from index.jsp, redirects to createaccount.jsp and allows user to enter all fields, making a username and password.
Create account with data validation	Basic	3	2	Has basic data validation including email, postal code length, phone number, state length. Don't have full implementation

				yet. In createaccount.jsp
Edit user account info (address, password)	Basic	3	3	User can edit all account fields in editinfo.jsp
Login/logout	Core	2	2	User can login from home page index.jsp and can also logout anytime using the menu header. Logging out will redirect them to index.jsp
Page listing all orders for user	Core	1	1	Listorder.jsp shows all orders for signed in user
Administrator Portal (up to 21 total points)				
Secured by login	Core	1	1	On initial login page, if account Is recognized as admin they will have admin privileges. There is no separate login page for admins.
List all customers	Core	1	1	Listallcust.jsp shows all customer profiles
List report showing total sales/orders	Core	1	1	Listallorders.jsp shows all of the order date and sales
Database restore	Basic	2	2	On admin.jsp,

with SQL script			reload database button will reload/reset the info in database.
Database System/General			
User interface and navigation/usability	Up to 5		
Others (your suggestions)	Up to 5	1	In your cart, there is now a total items in cart, which adds the amount of items in cart
Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.)		47	

3. Website Walkthrough:

3.1 Home page:

Upon loading the page, the user is given the option to login to their account or to create an account. If the user logs in and is a recognized admin, ExoPet will recognize this and give the admin access to their admin page in the next screen.



3.1.1 Create Account Page:

If the user does not have an account, they will have to select create account. On the create account page, there is a form that requires the first name, last name, email, phone number, address, city, state, postal code, country, username and password for the user. The reason that all of this is asked right away is to streamline the checkout process. There is data validation for the email address, and phone number, postal code and state lengths. Username will be blanked out for security reasons. User will press create account and this will take them back to the home screen where they will have to login with their newly created account.



3.1.2 Login:

When the user goes to the login page, they will have to enter their username and password to login. If login is valid, user will be redirected to the listprod page, where they can start browsing items.





3.2 Product page:

On the product page, the user can scroll through all of the products. Each product has an add to cart button along with a photo, name, category, and price. If a user is interested in a specific product, they can press the name of the product where they will be taken to the product item screen. There is a search and filter bar at the top of the product screen where a user can filter by categories, or search for a specific item. In the filter bar, a user can also select "our top products" which will show the highest purchased items storewide, regardless of the user. Along with this, the user can also select their most purchased items, which shows the 5 highest number of purchased items for that specific user. (both of these features shown in features). The reset button at the top resets the search.







3.3 Menu Header:

At the top of the page, there is a menu header bar that shows the username of the user logged in, the main page(3.2), customer information(3.4.1), shopping cart(3.4.2),

orders(3.4.3), and an option to logout(3.4.4). This is how the user will navigate the website. If the user has logged in as a recognized admin, they will have the option to press the admin button(3.7) which will redirect them to the admin home page. In the pictures, you can see that admin arnold has the option to click the admin button. If the user is not an admin, like jossw7, this button will not show up for them. Whatever page you are on will be highlighted in blue on the header bar.



3.4.1 Info:

When the user presses the info button on the header, they will be redirected to their profile information. The user will have the option to go back to the main page or to edit their info. If edit info is chosen, they can make changes and confirm updates.







3.4.2 Your Cart:

If the user presses the your cart button, it will take them to a page showing their cart summary. This includes the names, quantities, prices and subtotal (quantity*price) for each item. At the bottom of the table, there is also an order total, which is the total cost of the order, as well as total items in cart. There is a checkout button as well as a continue shopping button. If the users cart is empty and they go to Your Cart, ExoPet will inform them that their cart is empty.



3.4.3 Your Orders:

If the user selects the Your Orders page, they will be redirected to a page that shows each order they've made. The records include orderId, product images, name, quantity, and price. If the user has never ordered anything, ExoPet will inform them that they have never made an order.



3.4.4 Logout:

If the user hits logout, they will be logged out of their account and redirected to the Home Page.

3.5 Item info:

Let's say the user likes the look of a Wolverine, they can click on it and be brought to a item page specific to that item. They can see the name "Wolverine", an image, and a description. The user has an option to Add to Cart(3.5.1) or continue shopping which will bring them back to product page if they change their mind. They can also leave a review which consists of a rating between 1-5 and a comment box.

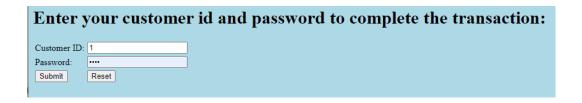


3.5.1 Add to Cart:

If the user wants to add an item to their cart, they can press add to cart either from the main product page or the specific item page. Both of these will redirect the user to the "Your Cart" page (3.4.2).

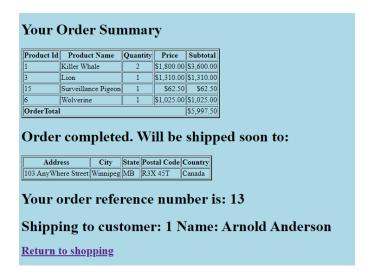
3.6 Check Out:

If the user is satisfied with their cart, they can press the checkout button, which will take them to a screen where they have to enter their customer id and password to complete the transaction. If they enter the wrong customer id or password, the user will be notified and they will have to go back and try again.



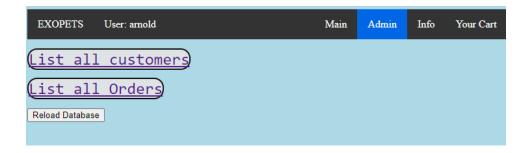
3.6.1 Order Summary:

If the user information is valid, the transaction will go through and the user will be taken to an order summary page. The order summary page includes a table showing the Product Ids, Product Name, Quantity of each product, the prices, subtotals as well as the total order amount. This is the table is very similar to the Your Cart product table (3.4.2) except it also shows the product ids. Also on this page is a confirmation message showing the address that the order will be shipped to, a order reference number, and the customers name. Finally, there is a button that will allows users to return to the product page.



3.7 Admin

If the user logs in and the system recognizes them as an admin, they will have the option to press the admin button on the menu navigation bar. If an admin presses this, they will be taken to the general admin page. This page will have the option to reload the database (wipe existing data), List all Customers(3.7.1), List all Orders (3.7.2), and Manage products.



3.7.1 List all Customers (ADMIN)

This page will list all of the customer profiles in the system, sorted by customer ids ascending. The format of the customer profiles is the same as Customer Info (3.4.1). There is a button at the top to go back to the main admin page. (3.7)



3.7.1 List all Orders (ADMIN)

This page will list all of the orders, specifically the order date and the total order amount per day. There is a button at the top to go back to the main admin page. (3.7)

