EyeSpy

System Documentation

Introduction

This document lays out a project plan for the development of "EyeSpy, LLC", an eyewear price comparison website by Riyo Aloshyas.

The intended readers of this document are current and future developers working on "EyeSpy, LLC" and the sponsors of the project. The plan will include, but is not restricted to, a summary of the system functionality, the scope of the project from the perspective of the "EyeSpy, LLC" team, scheduling and delivery estimates, project risks and how those risks will be mitigated, the process by which I will develop the project, and metrics and measurements that will be recorded throughout the project.

Business Overview

By compiling prices on eyewear into a single convenient spot, EyeSpy, LLC provides consumers with the cheapest prices available. Set out to disrupt the traditional eyewear industry, EyeSpy, LLC is an eyewear price comparison website displaying a variety of both high-quality designer and house brands with a wide-range of styles and lens types including: single vision lenses, multifocal lenses, Rx sunglasses, sports glasses, kids glasses, contact lenses, digital protection, anti-reflective coatings and more.

7 out of 10 adults in the United States need eye correction. When I founded EyeSpy, LLC, it was very clear that people are overpaying for glasses as they are perceived as a health necessity and businesses are taking advantage of that. For this reason, EyeSpy, LLC is developing a system in which products from chosen eyewear vendors will be aggregated into a single database and consumers can search and select eyewear based on product prices from the various eyewear vendors. As a result, eyewear vendors increase their online presence and purchases via affiliate marketing. In addition, EyeSpy, LLC will develop a system in which consumers give reviews about the product and online shopping services, which in turn helps e-commerce enterprises and manufacturers to get customer opinion to improve their services and merchandise.

Customers

Anyone interested in purchasing eyewear. Anyone can use this application ranging from a child to an elderly individual.

Platform

It will be implemented as a Web-based application.

Goals and Scopes

- chosen eyewear vendors will be aggregated into a single database
- consumers can search and select eyewear based on product prices
- increase eyewear vendors online presence and purchases via affiliate marketing
- consumers give reviews about products
- E
- F
- F
- F
- F
-

Deliverables

- Product Management System
- Review Management System
- User Interface
- Data Storage
- Affiliate Marketing System

Development Responsibility

I, Riyo Aloshyas, would be developing the software along with Leo Acioli Arruda Sampaio. We are responsible for the creation of the system.

Functionality

The following lists the core functional capabilities of EyeSpy, LLC:

Functional Specifications:

Product Management System:
1. View product information
1.1. View product price
1.2. View product reviews
1.3. View product rating
1.4. View product's vendor
1.5. View product's eyewear power options
2. Search feature
3. Create product list
4. Add/delete products
5. Modify existing products
6. Organize products by category/filter

Review Management System:
7. Return results based on user input
8. Select from various product categories
9. Save favorite products
10. Start initial search and keep pulling remaining entries
11. Allow users to post their own reviews on products
11.1. Include ReCAPTCHA Verification

User Interface:
12. Framework for Website
13. Show dialogue box for user to type in and initiate search
14. Show navigation bar
15. Create and manage user and admin accounts
16. Select from various product categories
17. Save favorite products
18. Refresh
19. Manage ads
20. Track users
21. Manage preferences
22. Display message dialogue box if no results found
23. Display support contact information

Data Storage System:
24. Load product list
25. Update
26. Search parameters put in place
27. Store product information
28. Store product reviews

Affiliate Marketing System:
29. Provide link to product vendor's website
30. Display product vendor's webpage
31. Account each customer following product link
32. Account each customer making a purchase via following product link
33. Promote specific vendors at the top of the page

Non-Functional Specifications:
34. View 100 results per page
35. Display results within .5 seconds and continue to build more
36. Limit searches to 50 words to provide the most accurate results
37. Save favorite products within .5 seconds
38. Display category list within .5 seconds when user hovers over "Category"
39. Add/delete products within .5 seconds
40. Log in user within 2 seconds
41. Create accounts within 2 seconds after user provides necessary information
42. Store and display user reviews within .5 seconds
43. Limit ads to a maximum of 4 per webpage
44. Display error messages within 1 second
45. Display a refreshed web page within 2 seconds
46. Display search results using preferences within .5 seconds

System Architecture

-context diagram
-mid level design

User Experience & User Interface Design

-wireframes
-use cases

System Testing

-test cases
-RTM

System Implementation

-implementation plan
-potential issues
-testing plan
-potential issues

System Deployment

-context diagram

System Maintenance

-context diagram