Camp Washington and Northside Hardware Store Website

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Submitted to:

The Faculty of the School of Information Technology

in Partial Fulfillment of the Requirements for

the Degree of Bachelor of Science

in Information Technology

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April 2015
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Abstract

Camp Washington and Northside Hardware are two local small businesses in Cincinnati, Ohio owned by Kevin Bomkamp. The two stores have been in business since the 1940’s and have never had their own company website or any other form of internet recognition or branding. The goal of our creative team is to create a mobile friendly, modern, and responsive website to increase business, revenue, and the overall customer demographic. The features of the website are not only focused on providing an exceptional user experience and a modern fresh design for customers, but provides an easy to use interface for the business to maintain orders, inventory, and more.
Introduction

In this day and age, most businesses have a dedicated website. When smaller businesses who are wishing to expand their clientele don’t take the advantages that websites can offer, they are missing out on many different opportunities. Websites have the potential to help bring more recognition and grab the attention of prospective customers on a daily basis.

Solution

The solution is a functional, responsive website for two local hardware stores. The website has the ability for customers to view a catalog of items for sale, reserve available stock for pickup, live help chat, inventory management, promotion management, and more. The inventory management system will be used daily by the store owners and managers. The responsive design is for ease of access from a personal desktop computer to a tablet and cell phone. The reservation system is available so customers can buy and reserve the products that the stores offer. The reservation system will allow the user to specify which location they would like to pick the products up from, further increasing the user’s experience. The website features a customizable user profile, so that when a user signs up to be a member, they will be able to enter and review their own personal information, such as wish lists and order history. In addition to creating a user account, the user can also sign up for emails that will include promotions and general news about the stores. The goal is to enable Camp Washington and Northside Hardware to be able to
acquire all the benefits of having a dedicated website that will not only include a larger client base, but increased profits, and overall better organization.

Technology Used

**Front End**

A variety of different technologies was used for this project. Bootstrap, a HTML, CSS and JavaScript framework, was used as the foundation to help build the responsive features. For the front end of the website we used jQuery, JavaScript, CSS3, and HTML5. Integration with PayPal was used for our payment handling, and integration with PureChat was used for our live chat feature.

**Front End Images**

![Web View](image)

Figure 1. Web View
Figure 2. Responsive View

Figure 3. Mobile View
Back End

The core of our backend code was written with PHP, and our web API was written with C#. We hosted our website, database, API, and worker processor on the cloud using Azure. Using Azure gives us more flexibility while saving us money and time. Within a few hours the stage and production environments were setup, along with auto scaling, and backup settings. Azure allowed easy implementation of continuous deployment using GIT, and easy code conversion from stage to production. Our database is hosted on MySQL. We used ClearDB to store and manage the MySQL database. On production we host the MySQL databases on a Linux server on Azure.
Back End Images

Figure 4. MySql Database for CMS

Figure 5. Azure Storage (Site Backups, DB Backups & Blob Storage)
User Profile

Potential Users

Our potential users include store employees, store managers, construction companies, independent contractors, and everyday consumers.

Software and Interface Experience:

The website features a responsive design. It will primarily be used by customers on a desktop computer, but is optimized for the individual to have access on the go, via a tablet or mobile device. There is a general “About the Company” section for background on the businesses, workers, and owners. Also available is a list products and individual product details such as descriptions, prices, and availability. Customers can reserve the products that the store has in stock, and specify what time to pick up their reserved items. The “Promotions” section of the website will indicate current promotions and discounts.
Experience with Similar Applications:

Users will only need basic computer knowledge to use the website. Once the user has reached the website, the site will be intuitive enough for the user to find help, products, promotions, and services.

Task Experience

The targeted users will generally have an idea of what they are looking for once they reach the website. The average user will feel comfortable navigating the website, resulting in completing all tasks with ease. A homepage sliding carousel is implemented to give users a head start in their search.

Frequency of Use:

The use of the website will vary depending on if you’re an employee or a customer. Customers will use the website depending on frequency of household needs, DIY projects, and how much business a company or contractor is getting at the time. The estimated amount of user use is about 3-4 times a month. Store employees and managers use the website daily for administration and inventory purposes.
Proposed Budget

The proposed budget is at an estimated amount of $2875 per year plus the initial cost of $2400. Web hosting is around $892.80 - $2675.40 per year. Ongoing support for the websites with all its functionalities and plugins is at an estimated $400 per year. If development was done by a small firm and not for free by family members, the proposed budget would be much higher because the cost of development. The estimated cost of development is $60/hour times 40 hours which would amount to $2400.
Graphical Budget View

![Budget View Graph](image)

Figure 8. Budget View

Timeline

The proposed timeline for our tasks is outlined in the graph below.

![Project Timeline](image)

Figure 9. Project Timeline
Conclusion

This project delivers a modern and responsive website solution that will be able to increase the business’ overall success. This will be a welcoming change for customers and will also provide them a convenient way to navigate the site, ask questions, and find products. The admin section of the site provides the company with a convenient, user-friendly interface with which they can manage store inventory, orders and more. Overall, the focus is on providing the user and employees with the best experience possible.
Works Cited

