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**Programme BSIT**

**Level 2.2**

**Module WEB DESIGN AND E-BUSINESS**

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**System Name Barbershop Online Shopping Platform**

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**Introduction**

I designed an online shopping application for a South African based organization called Legends Barbershop. The organization has been in the industry for a couple of years and currently has 9 barbershops all over South Africa but with the hopes of growing to become a multinational organization. All of the products used in their barbershops are produced in-house therefore my task was to design a web application that would allow the organization’s customers to purchase these products online, the application would also have a platform that advertises what the organization is about and allows customers to book a session.

**Main Body**

**System Development Documentation**

**Design Considerations**

The application that I designed has a navigation bar on the top part of the pages with buttons that act as navigators to other pages like the Home, Products, Services and Contact Us pages. The reason for this design was to make it easy for the customers or visitors to navigate through pages without wasting much time looking for the navigation links are.

The application has a resizing effect which allows customers or visitors with small screen devices like phones and tablets to effectively access it.

All the buttons and links in the system have a hover effect which differentiates text or simple designs from actual buttons and links.

The system also has “Log In\Sign Up” page which means that for potential customers to book a session or purchase products they need to be registered.

**Developer’s Guide**

In this system every page has its own HTML and CSS files this was done to allow changes to made on one page without affecting the other pages that may be related to the page in question.

In this system there is use of font awesome and bootstrap so a developer has to be aware of the location of these files and make sure that the location is rightly included in the link tag. These are the main areas of code.

To develop the system further the developers can improve the encryption and integrity checks on the “Purchase Details” and “Log In\Sign Up” to make sure that the organization’s customer details are not tempered with.

**Testing**

* Integration Test – This testing exposes problems with the interface among different system components and the system I designed passes.
* Interoperability Test – Different users use different browsers and operating systems and the system I designed works on all of the commonly used browsers and operating systems.
* Security Test – One of the most important tests however the application I designed failed this test.
* Performance Test – Slow applications are not successful, the reaction time of the system I designed is quite fast.
* Usability Test – Consistent usability is crucial, any inconsistency within the user experience may translate into a negative experience. The application I designed pass this test because of its ability to be accessed on a small screen device and the navigation bar on the top part of the page.

**Evaluation**

The problem I faced was that I could not link my system with a database in which the names of the registered customers and the names and amount of products in-stock would be stored.

In the future the system could be linked with a database that stores the aforementioned information. Encryption can also be imposed on the system to avoid third party hacking.

**Conclusion**

I have learned that designing websites is fun, interesting and not as hard as I thought

**References**

https://www.glowtouch.com

**APPENDIX – MARKING GRID**

|  |  |  |
| --- | --- | --- |
|  | **Marks Allocated** | **Marks Given** |
| Application and Navigation function | 15 |  |
| Web forms | 12 |  |
| Connected Database | 8 |  |
| Developer’s Guide | 10 |  |
| Testing | 10 |  |
| Design Considerations | 5 |  |
| Accessibility | 10 |  |
| Initiative, Innovation and overall impression of  Quality | 15 |  |
| Conclusion, Reflection and Recomendations | 15 |  |
| **Total Marks** | **100** |  |