Implementation of a Dedicated Site

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Abstract - The results of the design that we present had been gotten inside of the development of obligator curricular period of training for the undergraduate students of the Course of Data Processing Technology of the University Center Lusiada. The group of research and development during the period of training was compose by a senior researcher, one undergraduate student and one technician in computer science. The developed activities had been divided in three stages: In the first stage we develop the analysis and design of reconstruction and management of the Lusiada Foundation’s Web Site. In the second stage the analysis was carried through, design, construction, documentation and implantation of the extract system of hours used in the access the Internet. In the third stage was the development of the design and the management of the Proxy System to provide Internet access for local networks with reability to keep all the Lusiada Foundation connected internal.

The main objective of the work fully was reached, or either, the period of training accomplishment technician and the formation of the professional future of computer science that passed for all the necessary stages so that this goal was reached successfully, as by-product got a significant improvement of the jobs offered for the site. The site can be located in the address http://www.lusiada.br.

I. INTRODUCTION

Here we present the steps of the design, development and implementation of reconstruction and management of the one Web Site, extract system of hours and Proxy System as part of the university scientific project that obtained excellent performance.

II. DESIGN AND PROJECT

The Figure 1 show the main page of Lusiada Foundation’s Web Site.

The first step of our project was to develop the analysis and reconstruction project and amplifier the Lusiada Foundation’s Web Site. By other side, it was included of this proposal to permit remote and local access by ours employers, professors, students and our community in general supplying with information how:

1. Lusiada Foundation’s history;
2. Library features, localization and contacts;
3. Full reference about the Lusíada Secondary School, from playing activities until pedagogical methodology adopted by the school;
4. Complete departmental structure, with all disciplines inside their respective Departments;

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5. All graduation and post graduation available courses given objectively and neatly the several aspects of it course;
6. Extension courses offered by UNILUS;
7. All events: institutional, teaching and students, already carried out and scheduled ones;
8. UNILUS Electronic Journal;
9. Specific official notices such as: the results of Selective Process 2000, 500 Years Brazil Project, and the Scholarships Contest of the Lusíada School, among many others;
10. Search Sites indicated by LusíadaNet provider;
11. Localization and contact ways of ours three Campi;
12. Services offered by our Internet Provider LusíadaNet.

In the second stage of the development of the Web site of the Lusíada Foundation, however, already in the pertinent part to the services offered for the internet provider (LusíadaNet), we develop the analysis, first draft, logical design, physical design, construction, documentation and implantation it extract system of hours used in the access the Internet. This in turn already is integrant part of our Web site, taking care of fully to the intention of personal control of our users.

Still inside of the second stage, but in current development it is the Academic Market, which also follows the pacings of development of analysis, first draft, logical design, physical design, construction, documentation and implantation it system. The Academic Market comes to be a stock market of offered periods of training our students, while hand of available workmanship, and the companies of the community, while recruiting of this hand of workmanship.

Techniques had been used of analyze of systems as it analyzes structuralized, essential, engineering of software, engineering of information and orientation of objects, as well as, techniques of structuralized programming and orientation of objects in softwares developed by the team. As much analyzes functionary as analysis of data finishing of the
analysis of the systems had been used inside of the boarding
of the modeling of data as. The system of data base chosen
was the relationary system, in view of the security imposed to
the storage of the data through its mechanism of imposition of
referencial integrity to its relationships.

Already in the third stage of the development, I participated
of the first draft, design, implementação/configuração and
management of the Proxy system, that has as some of its
features to provide access the Internet for local networks with
security, improving the together time of reply of connections
the network that keeps all the Lusíada Foundation connected
internally the Internet.

For this stage we count on a server of similar physical
features to the WWW server, to put destined to be used as
backup and how proxy server, magnifying the resultant
reliability of the system, besides the inherent concepts of
redundancy of the designs and implemented by software, and
the backup through dat covers. The system of proxy adopted
was the Microsoft Proxy 2.0, that Windows NT 4.0 was
installed in a server with the operational system. The Proxy
Server was a cheap solution that made possible the access of
our Intranets the Internet, through an only valid IP, since,
allowed to the act of receiving of connections comings of the
Internet of safe form. With use of Proxy Servers, we could
carry through the interconnection of our Intranets the Internet
of free form security and of attacks and invasions. Moreover
it admits pattern to allow that our Intranet, had all the access
features the Internet, beyond the locking diverse jobs, as
much in the Intranet/Internet direction, as in the
Internet/Intranet direction.

III. SOFTWARES AND OPERATIONAL SYSTEMS

The Operational Systems used were: Windows NT 4.0 SP6a,
Windows 95 Original Service Release (OSR) 2.5 and
Windows 98.

The languages used in the development of the software
designs were: Borland Delphi 5.0 Enterprise, Borland Turbo
C++ 3.0, Microsoft Activates Server Page 2.0, Microsoft
Visual Basic for Scripts, SQL, HTML 4.0, DHTML and Java
Script.

The used data bases were: Microsoft SQL 6.5 Server and
Microsoft Access 97.

The general purpose Softwares were: Microsoft Office 97
Professional, Microsoft Front Page 98, Adobe Illustrator 8.0,
Adobe Photoshop 5.5 and Adobe Page Maker Plus 6.5.

The system proxy used: Microsoft Proxy Server 2.0.

We used the NTManager v2.09 LANware software to test and
monitor the system Proxy. The Figure 7 show the software
running.

IV. CONCLUSION

The main objective of the work fully was reached that was
the formation of our future researchers.

They passed by all the stages of the initial proposal: the
design, the development and the implementation of the
system.

To participate of the all the stages of a development design
and management of a Web site, as well as, of the
development of systems in environment of Internet, using you
vary known techniques of analyzes and programming in the
current days. Installation and configuration of a system proxy
and all the security politics the accesses, restrictions the
protocols and services of network.

The system implemented are working and can be accessed
in the address http://www.lusiada.br.

REFERENCES

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Choosing a dedicated hosting provider guarantees maximum uptime for your website. Shared hosting is often best for websites with low to medium traffic. If your website receives a lot traffic, though, dedicated servers provide more stability and reliability than shared hosting. With a dedicated server, you can also be sure that you aren’t sharing space with a malicious website or a potential spammer.

Dedicated hosting allows enhanced security, particularly important for companies handling sensitive transactions over FTP or SSL. The pages hosted in a dedicated Hosting allow the implementation of security measures such as antivirus and firewalls. Not only that, security settings adapt better to the functions themselves. Support. Dedicated hosting means your website is hosted on a single server that is dedicated specifically to your website. This cuts out the competition of resources associated with shared hosting, and results in more robust website performance. If shared hosting is like a public bus, then dedicated hosting is like renting your own car. You have more control where you take your car, how fast it goes, and what radio station plays.

Another limitation of a dedicated hosting solution is that it requires a high level of technical knowledge, especially if you want to take advantage of the customizability. If technology isn’t your specialty, you could hire a server admin, or purchase a plan that includes management support, however, these add to your costs. Implementations so far integrates gLite sites with BOINC, ExtremeWeb and OurGrid infrastructures. This scheme integrates the middleware gLite with specific opportunistic middlewares, which differs from the present work because the goal is to recreate a gLite cluster in the opportunistic infrastructure making it middleware independent. A dedicated site known as site Uniandes with an opportunistic cloud infrastructure known as UnaCloud. through a unified model using an elastic system. This system communicates to UnaCloud Web Services (WS) when the elastic rules react to the metrics obtained by the site scheduler.