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**Synopsis of GTBPI Notification Zone**

Submitted By:

Name: Megha Attri

Roll No: 1535051223

Branch: Computer Engineering

Guided By:

S. Pardeep Singh

Guru Tegh Bahadur Polytechnic Institute

POORVI MARG, VASANT VIHAR, NEW DELHI-110058

(AFFLIATED TO BOARD OF TECHNICAL EDUCATION, PITAMPURA)

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1. **Introduction:**
   1. **Purpose:**

The purpose of this document is to describe the software requirement in developing the web application “**GTBPI Notification Zone**” which will reinforce and maintain details about: –

* Communication held between faculty members and students.
* This web application will be designed for GTBPI members in order to provide them facility of notifying students about class ongoings and solving their related queries.
  1. **Scope:**

“**GTBPI Notification Zone**” is a web-based service which intends to connect students and faculty of GTBPI. It will also help:

* In constructing connection beyond the boundaries of classroom between the users.
* In maintaining an online schedule.
* Users can update themselves with the recent and important information.

The scope of the project can be listed as under:-

* This site aims to provide a special functionality to students to be informed about the followings:

1. Handouts Updations.
2. Notes Availability
3. E-books
4. Schedule Updations
5. Assignments
6. Query related to above.

* Teachers will be able to add or update different notices to inform the students about the activities going on.
* Administrator will be responsible to update overall database of the website.

Three types of users will be using this website .User can be **Student, Faculty and Administrator.** All the users will have different access and rights granted by this web application

* 1. **Definitions, Acronyms and Abbreviations**:

**Title**: **GTBPI Notification Zone**

* **HTML:** Hypertext Markup Language is a markup language used to design static web pages.
* **HTTP**: Hypertext Transfer Protocol is a transaction oriented client/server protocol between web browser & a Web Server.
* **HTTPS:** Secure Hypertext Transfer Protocol is a HTTP over SSL (secure socket layer).
* **www:** World Wide Web
* **DB:** Database
* **RAM:** Random Access Memory
* **HDD:** Hard Disk Drive
* **IIS:** International Information Server
* **IE:** Internet Explorer
* **OS:** Operating System

**1.4 Overview**

““**GTBPI Notification Zone**”” is a service with advanced features that provides Internet based academic spaces designed to facilitate communication, collaboration, and content sharing across networks of users.

It aims to allow users to manage and to be informed about the academic activities.

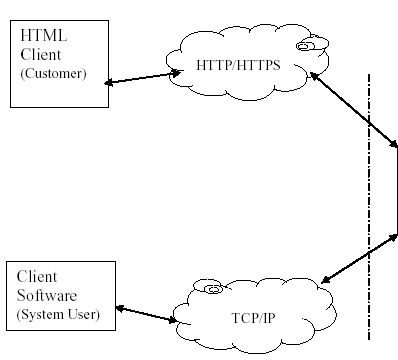
Permissions will be a very important feature in this application. It will allow administrator to control who will get access to their profile, information, connections and spaces, as well as degree of access.

**2. General Description:**

**2.1 Product Perspective**

This website is mainly aimed towards students and faculty of GTBPI.

This website will be user friendly, and reliable



IIS

SQL Server

**Client Side Application Server Database Server**

**2.1.1 Product Functions**

““**GTBPI Notification Zone**”” will allow:

1. Login to the system through the first page of the application.
2. OTP will be sent to the concerned person about the confirmation of the creation of the account.
3. Users can have their profile.
4. Students can check the post and replies of query updated by faculty.
5. Teachers can broadcast the information through BNZ.
6. Students can query about the teacher’s post.
7. Sign Out from the system.

**2.1.2 Hardware Interface**

**Server Side:**

* **RAM: 1GB**
* **HDD:** 20 GB or more (Free space excluding data size)
* **Processor:** 1-2 GHz (P4) or onwards

**Client Side:**

* **RAM:** 512 MB
* **HDD:** 10 GB or more (Free space excluding data size)
* **Processor:** 450 MHz (P2)

**2.1.3 Software Interface**

**Server Side:**

* **OS:** Windows Server 2007 or onwards
* **Web Server:** IIS 5.0 or onwards with ASP.Net framework

**Client Side:**

* **OS:** Any OS
* **Browser:** Any browser supporting JavaScript, CSS, xml.

**2.1.4 Communication Interface**

* Client on Internet will be using HTTP/HTTPS protocol.

**2.2 User characteristics:**

The users of “**GTBPI Notification Zone**” should be computer literate.

Users of this software can be categorized as following:

* STUDENTS

These types of users are the pupil enrolled in different courses provided by GTBPI University. Students may be day scholars or hostellers.

* FACULTY

These types of users are the teachers of various departments of GTBPI University.

* ADMINISTRATOR

These types of users are basically the administrator of whole web application. They can change any data at any time without creating any conflict or any confusion for the rest of users.

**2.3 General Constraints**

1. **Higher Order Language Functions:** The Asp.Net will be used for developing the web-pages with the help of Visual Studio 2010 and for the database information SQL Server 2008 will be used.
2. **Safety and Security Considerations:** The password and a valid username are the security issue.
3. Any substantial enhancement in website will require approval of the administrator.

**2.4 Technologies to Be Used**

* **Front End:** ASP.Net with C#
* **Back End:** SQL Server 2008
* **Design Tool:** Microsoft Visual Studio 2010
* **Web Server:** IIS 5.0 with ASP.NET run time

**3. System Attributes:**

**3.1 Software System Attributes**

**3.1.1 AVAILABILITY**

The availability of this web-site is up to the Internet connection of the client. Since this is client-server related web-site shall be attainable all the time. User should have an account to enter the system; if user does not have an account then user can only see the information which will be displayed on the homepage of the web-site.

**3.1.2** **SECURITY**

The authorization mechanism of the system will block the unwanted attempts to the server and also let the system decide on which privileges may the user have. The system has different types of users so there are different levels of authorization.

**3.1.3 RELIABILITY**

A backup file is maintained so that in case of system crash, the data will not be affected.

**3.1.4 PORTABILITY**

The system is developed using ASP.Net which provides a framework for developing web-based applications.

**3.1.5 MAINTAINABILITY**

This web application will follow the modular structure so it will be easy to maintain.

* 1. **About the Organization**

I learned all the technologies and their implementations applied in this project at **Deft Infosystems (P) Ltd** (303, Pratap Complex, G-92, Munirka, New Delhi, Delhi 110067) in my 2 months training period.

**Deft Infosystems (P) Ltd** is a reputable software development company specializing in offshore software development for Clients all over the India, United Kingdom and the United States.

**3.2.1 Key People**

““**GTBPI Notification Zone**”” couldn’t have been possible without the help of my project partner **Yash Tiwari** (Roll No: 1535051063) and our project supervisor cum trainer **Mr. Bhupender Sharma** who helped us a lot in developing and following best development practices in the whole process of development.

**3.2.2 Current Status**

Currently the project is in it’s final stage of testing and would be completed in the coming week.