



Personal Academic Tutoring System

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1. Introduction

1.1 Purpose

The reason for this report is to list down the procedure of advancement of framework for individual scholastic coach. It will portray prerequisites, usefulness, and detail of interfaces of framework and its parameters and objectives of proposed framework. The documentation of framework will be useful for group and for customer to comprehend the usefulness.

1.2 Document Conventions

The main headings of this document is in BOLD with font face Times New Roman, font size 14 and numbered. The font under the heading is normal with font Times New Roman and font size 12. Rundown is utilized. Every prerequisite explanation has its own particular need.

1.3 Intended Audience and Reading Suggestions

The idea of this document is to provide a clearer vision to all the people involved with PATS and its development team that includes the client, guiding team, interface designers and other programmers that may become part of the project in future.

The essential planned recipient of this report is the customer i.e. Namal College. This report will enable the customer to re-to check the framework outlining forms and the normal item. In the wake of perusing this, he will have the capacity to clear up the clashing zones or propose encourage adjustments. Other gathering of people incorporates the item originator, item engineers and task administrators. The item originator can keep it as the framework for the entire planning process. This archive will likewise fill the need of manual for the end clients i.e. PATs and Students too.

1.4 Product Scope

The essential capacity of this application ought to be the record keeping and record keeping up. It ought to likewise have the capacity to refresh the information if client that is school secretary make any alteration. The record keeping and keeping up framework ought to be outlined in a sorted out shape in which tabs for including new understudies/PATs, evolving PATs, expelling understudies from the most recent rundown must be accessible. Besides, everybody ought to have restricted access to the information according to his/her necessity. Recorder, as a client, ought to have the capacity to relegate/change instructional exercise bunches/PATs of any understudy. Most importantly, the application ought to have the capacity of sending out the information as PDF or Excel Sheet.

2. Overall Description

2.1 Product Perspective

The framework is to supplant the manual task of PATs to understudies and to utilize database to deal with the information so it will work effectively. The framework will totally supplant the current exceed expectations sheets and will be available to every approved executive and clients.

2.2 Product Functions

The principle capacity of framework is to include new understudy and keep record of right now enlisted understudies. At that point it ought to have the capacity to make gathering of understudies and to appoint them a coach proficiently. The school secretary can adjust information after sign in to the framework. Framework ought to have the capacity to show the record of understudies in their point of view amass with doled out coach.

2.3 User Classes and Characteristics

Mentioned below are the user classes and functionalities that are offered by this system.

2.3.1 Maintaining Records

This application should hold the record of the considerable number of understudies selected in the college alongside their relating PATs and the framework ought to likewise naturally refresh the information, once the information is altered. This information ought to dependably be accessible to see in light of the level of the entrance allowed to a specific client.

Use Case:

2.3.1 Administration

The organization ought to be permitted to keep up the records of the understudies and the PATs. The framework ought to give isolate tabs to enlisting another client, expelling an understudy from a PAT's gathering, enrolling an entire class by transferring a CSV record, erasing an entire class, enrolling another PAT or evacuating an officially existing PAT. The director ought to have the capacity to have every one of these abilities by clicking these tabs.

2.3.2 Modify Personal Information

Overseers ought to have the capacity to alter the information of the understudies and the PATs. The framework ought to give a simple interface to alter the information for instance contact data and assignment for the PATs and the present year, contact number and PAT of any understudy.

Use Case:**2.3.2 Administration**

The overseer ought to likewise have the capacity to adjust the individual data of a specific PAT and a specific understudy. The framework ought to have two separate tab for understudies and PATs in the overseer account. At the point when the client will tap the 'Taps' a rundown of the considerable number of PATs will show up before the clients, the framework ought to give additionally give an interface to see the profile of PATs and to alter their own data. In the event of the choice of the tab named as 'Understudies' the client ought to have the capacity to get the rundown of the considerable number of understudies and an interface to change their own data.

2.3.3 Assigning Students to PATs

Consistently new cluster is enlisted in the college and now and again a portion of the PATs leave the college so the framework ought to have an ability to appoint a specific understudy to any PAT. The understudies can be allotted to PATs on full load or fractional load. By full load we imply that the quantity of the understudies doled out to a specific

PAT should go from 4-8 understudies for every PAT and in the event of halfway load the number ought not to surpass 4. This application ought to likewise monitor every one of the PATs whether they are on full load or on fractional load and ought not enable more understudies to be doled out to a specific PAT if the breaking point is come to.

Use Case:**2.3.3 Administration**

The head ought to be permitted to enroll new understudies and apportion these understudies to various PAT. Under the 'Understudies' tab, the client should likewise be given another tab to enroll another understudy and allocate him to a specific PAT.

2.3.4 Reallocation of students to PATs

The framework ought to likewise have the capacity to change the PAT of a specific understudy after it is confirmed by the Registrar. The recorder can confirm a specific reallocation by signing into the framework with a legitimate arrangement of username and password.

Use Case:**2.3.4 Administration**

The framework ought to likewise have the capacity to change the PAT of a specific understudy after it is checked by the Registrar. The enlistment center can confirm a specific re allotment by signing into the framework with a substantial arrangement of username and password

2.3.5 View Records

Clients ought to likewise have the capacity to see the rundown of the considerable number of understudies of a specific year utilizing this framework. The framework ought to likewise help

the clients to create the rundown of the considerable number of PATs and the understudies allotted to a specific PAT. Client ought to likewise have an alternative to sort these rundowns.

Use Case:

2.3.5 Administration

The tabs named as 'Understudies' and 'PATs' in the director record ought to have the capacity to see the rundown of the considerable number of understudies in forbidden frame and the profile of the considerable number of PATs.

2.3.5 PATs and Secretary

A similar two tabs said above ought to likewise enable the PATs and recorder to see the profiles of the PATs and the rundown of the considerable number of understudies.

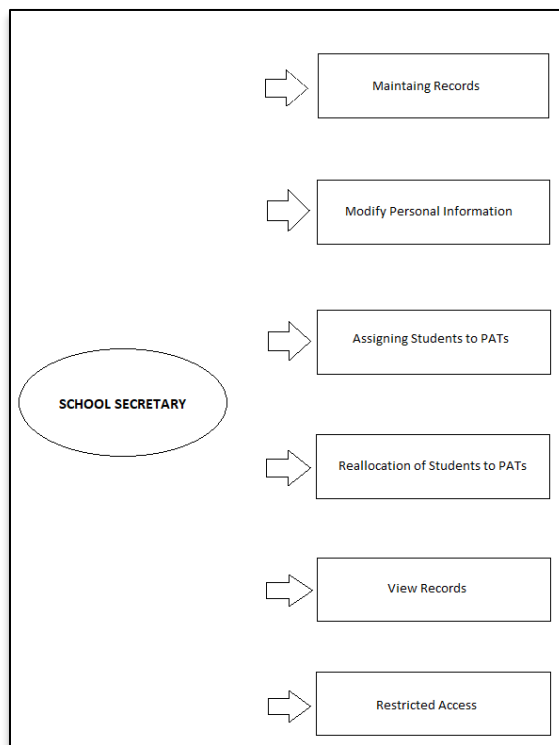
2.3.5 Students

Tabs named 'Understudy' and 'PATs' ought to likewise be accessible in the understudy's record with the goal that they can likewise see the records of understudies and PATs.

2.3.6 Access Granted

Only School Secretary shall be allowed to add, modify and delete the records.

2.4 Use Case Diagram



2.5 Operating Environment

The framework will work in any working framework condition. The Personal Academic Tutoring System will be a site and might work in every single well known program. For a model, we are taking Microsoft Internet Explorer, Google Chrome and Mozilla Firefox however it will be good with different programs. One of the essential and imperative necessities is that client ought to have a web association. For keeping up the database, a framework ought to be associated with some concentrated database server, where the information can be kept. To the extent equipment is concerned, the framework can be utilized on any PC gadget.

2.6 Assumptions and Dependencies

Assumptions:

1. The coding and scripting must be sans mistake.
2. The framework ought to be extremely easy to use, with the goal that client can without much of a stretch comprehend and utilize it.
3. The data of all understudies and coaches ought to be put away in database rather than document framework.
4. The framework ought to execute straightforward and complex inquiries quick.
5. The framework ought to give a simplicity of information access and it ought to be accessible day in and day out.

Dependencies:

1. The framework will be absolutely subject to the web program and web association and server side will likewise be a vital need.
2. A server machine will be required to incorporate the framework information.
3. Clients are likewise essential elements to utilize the framework, with the goal that the framework can give its administrations.
4. We accept that the directors won't be one-sided and will keep up and deal with the information accurately and truly.
5. Consistent supply of energy will be required to keep the server machine running and keep our administrations on for our clients every minute of every day.

3. External Interface Requirements

3.1 Hardware Interfaces

Since the framework has no immediate associations with the equipment or have no assigned equipment, it doesn't have any equipment interfaces. Framework ought to give its administrations to the greater part of the distinctive sort of PC gadgets having a web association. It ought to dependably be associated with a server where its database lives. TCP/IP and HTTP conventions are required to associate and exchange information from server to the framework and the other way around.

3.2 Software Interfaces

The framework will require any working framework introduced on any PC gadget. It will likewise require any program to be introduced on that working framework with a specific end goal to load and demonstrate the site pages in the program.

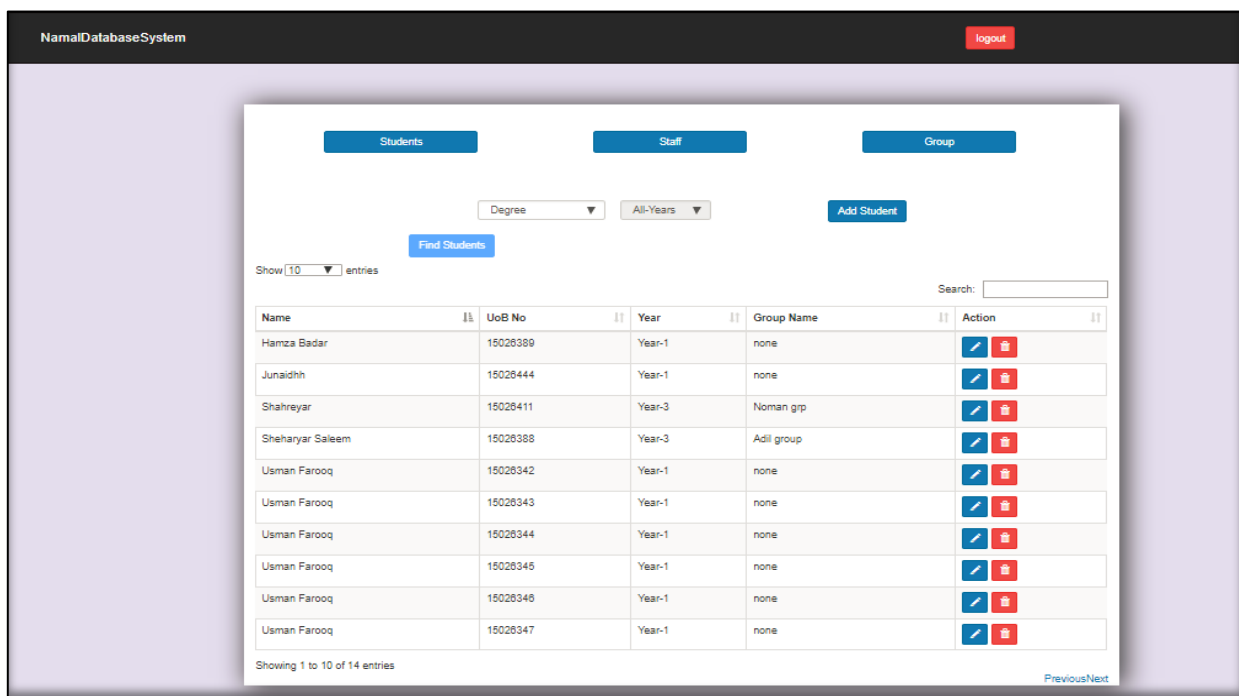
3.3 Communications Interfaces

PATs system will have a system server that would be online and made utilizing PHP dialect. The server will exist to recover and refresh data from and in database.

4. User Interfaces

4.1 General Layout

The Layout remains same throughout the working of the system.



4.2 Home Page

The homepage displays a Login form for the user to Log in.

4.3 Students

Clicking on the Students tab shows all the records of the students. The user can Add, Edit, Delete & Search the students.

Name	UoB No	Year	Group Name	Action
Hamza Badar	15026389	Year-1	none	Edit Delete
Junaidhh	15026444	Year-1	none	Edit Delete
Shahreyar	15026411	Year-3	Noman grp	Edit Delete
Sheharyar Saleem	15026388	Year-3	Adil group	Edit Delete
Usman Farooq	15026342	Year-1	none	Edit Delete
Usman Farooq	15026343	Year-1	none	Edit Delete
Usman Farooq	15026344	Year-1	none	Edit Delete
Usman Farooq	15026345	Year-1	none	Edit Delete
Usman Farooq	15026346	Year-1	none	Edit Delete
Usman Farooq	15026347	Year-1	none	Edit Delete

4.3.1 Add Student

Clicking on “add” displays a dialog-box where you can add a new student.

The screenshot shows a web application interface for adding a new student. At the top, there are three tabs: 'Students', 'Staff', and 'Group'. The 'Students' tab is selected. Below the tabs is a form with the following fields:

- Name***: A text input field.
- Year***: A dropdown menu with 'Year-1' selected.
- Group Name***: A dropdown menu with 'Adil group' selected.
- Department***: A dropdown menu with 'Computer Science' selected.
- Uob No.***: A text input field.
- Email***: A text input field.
- Contact No.***: A text input field.
- Degree***: A dropdown menu with 'Uder-Grad' selected.

An 'Add' button is located at the bottom center of the form.

4.3.2 Edit Student

Clicking on “edit-icon” displays a pop-up where you can modify the information of a student.

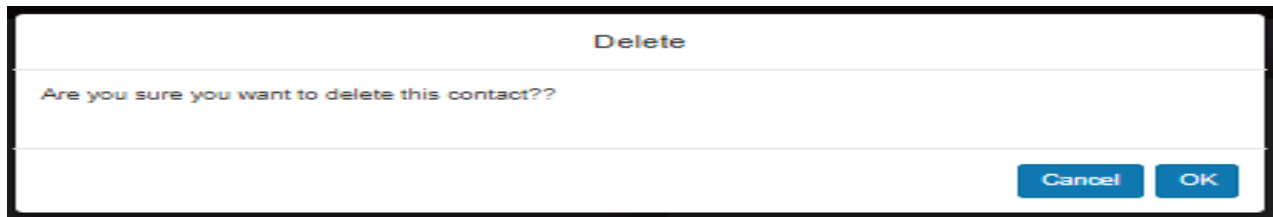
The screenshot shows a web application interface for editing a student's information. The form is titled 'Students Information'. It contains the following fields:

- Name***: A text input field with the value 'Hamza Badar'.
- UoB***: A text input field with the value '15026389'.
- Degree**: A dropdown menu with 'Degree' selected.
- Year***: A dropdown menu with 'Year-1' selected.
- Group Name***: A dropdown menu with 'none' selected.
- Department***: A dropdown menu with 'Computer Science' selected.
- Contact***: A text input field with the value '03234938688'.
- Email***: A text input field with the value 'sheharyar@gmail.com'.

At the bottom right, there are two buttons: 'Cancel' and 'Update'.

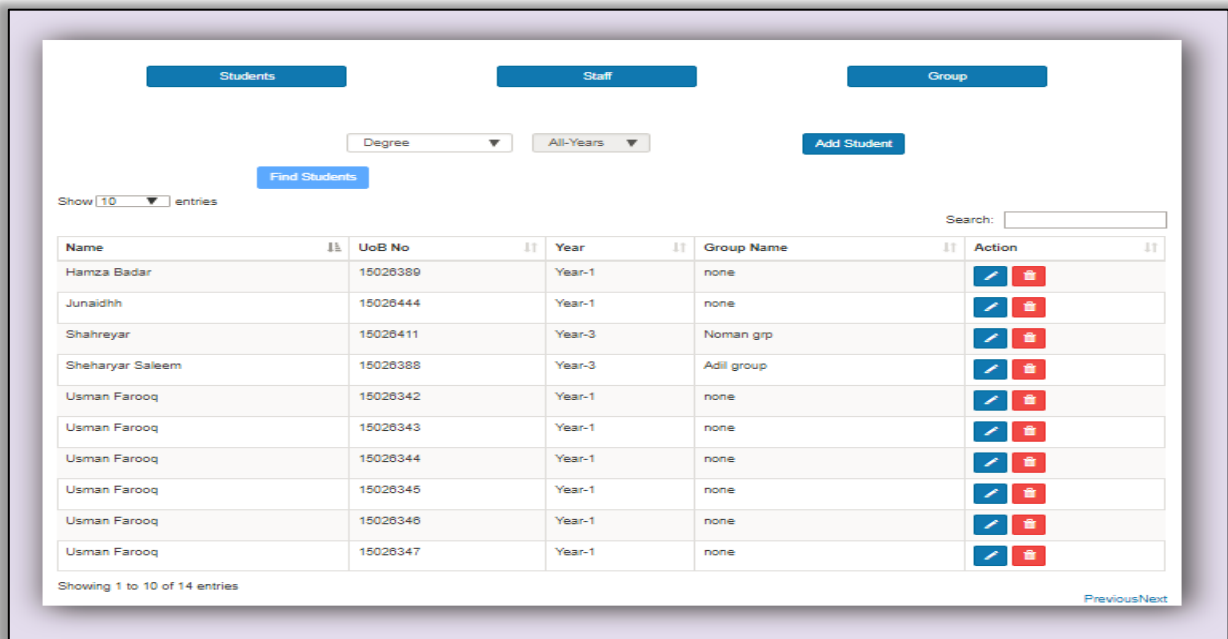
4.3.3 Delete Student

Clicking on “delete-icon” message-box for your confirmation to delete the record.



4.4 Staff

Clicking on the Staff tab shows all the records of the staff. The user can Add, Edit, Delete & Search the staff members.



4.4.1 Add Staff

Clicking on “add” displays a dialog-box where you can add a new staff member.

The screenshot shows a web interface with three tabs: 'Students', 'Staff', and 'Group'. The 'Staff' tab is active. Below the tabs is a form with the following fields:

- Name***: A text input field.
- Department***: A dropdown menu with 'Computer Science' selected.
- Email***: A text input field.
- Contact***: A text input field.
- Degree***: A dropdown menu with 'Under-Graduate' selected.

An 'Add' button is positioned at the bottom center of the form.

4.4.2 Edit Staff

Clicking on “edit-icon” displays a pop-up where you can modify the information of a staff member.

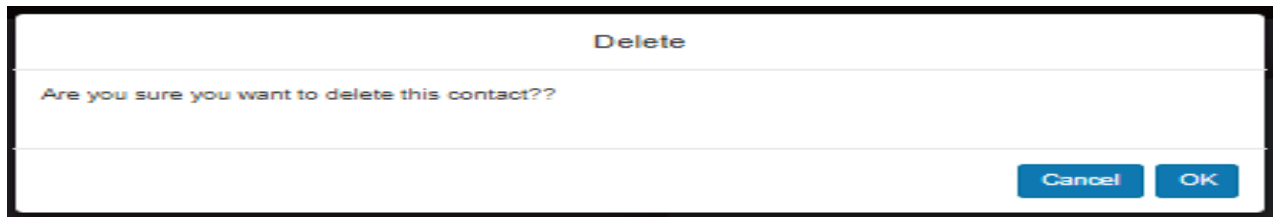
The screenshot shows a 'Staff Information' form with the following fields and values:

- Name***: Junaidsss
- Department***: Computer Science
- Group Name***: Noman grp
- Email***: janaid@namal.edu.pk
- Contact No***: 03234938688

'Cancel' and 'Update' buttons are located at the bottom right of the form.

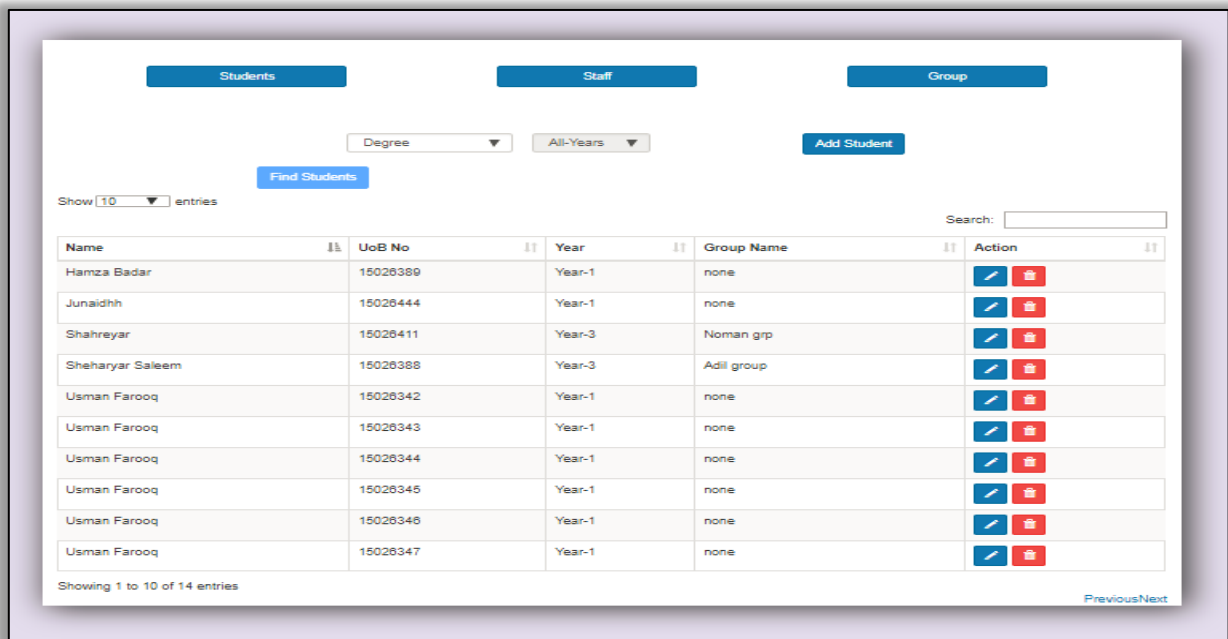
4.4.3 Delete Staff

Clicking on “delete-icon” message-box for your confirmation to delete the record.



4.5 Groups

Clicking on the Groups tab shows all the records of the groups. The user can Add, Edit, Delete & Search the groups.



4.5.1 Add Group



Clicking on “add” displays a dialog-box where you can add a new group.

The screenshot shows a dialog box for adding a new group. At the top, there are three tabs: 'Students', 'Staff', and 'Group'. The 'Group' tab is selected. The main area of the dialog contains a form with two fields: 'Group Name*' (a text input field) and 'Teacher*' (a dropdown menu currently showing 'Junaidsss'). Below these fields is a blue 'Add' button.

4.5.2 Edit Group

Clicking on “edit-icon” displays a pop-up where you can modify the information of a Group.

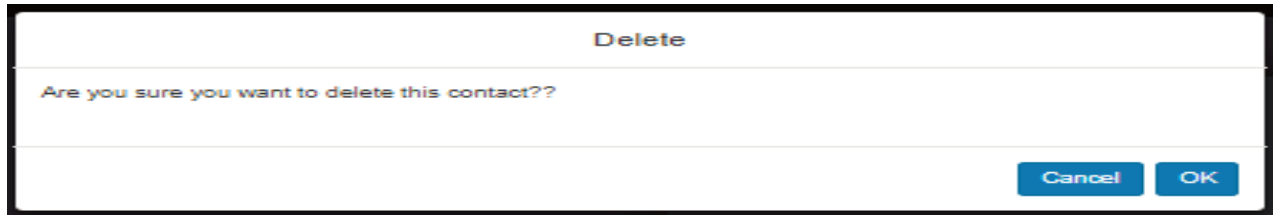
The screenshot shows a pop-up for editing a group. The header of the application is visible, showing 'NamanDatabaseSystem' and a 'logout' button. The pop-up itself has three tabs: 'Students', 'Staff', and 'Group'. The 'Group' tab is selected. The title of the pop-up is 'Noman grp'. Below the title, there is a 'Show 10 entries' dropdown and a 'Search:' input field. A table lists the group details:

Name	UoB No	Year	Action
Shahreyar	15026411	Year-3	 

At the bottom, it says 'Showing 1 to 1 of 1 entries' and has 'PreviousNext' links.

4.5.3 Delete Group

Clicking on “delete-icon” message-box for your confirmation to delete the record.



5. Other Nonfunctional Requirements

5.1 Performance Requirements

PATs ought to be sufficiently capable to work under any typical system transmission capacity speed gave and give its administrations to clients proficiently.

5.2 Safety Requirements

PATs ought to have the capacity to give all the expected functionalities to client's day in and day out. The database ought to have a reinforcement duplicate some place alright for recovery in any information lose. Programming ought to recuperate from any unforeseen behavioral state

5.3 Security Requirements

The framework and its related database ought to be sufficiently capable against any unapproved utilization of data/information. No one but school secretary will be able to make changes.

Appendix: Glossary

PATs: Personal Academic Tutoring System

PC: Personal Computer