1.0 INTRODUCTION

Nowadays, the use of systems has become essential in most of organization as well as institution in order to help them with the management of their information to become more accurate, effective and up to date. In developing the systems, many part should be taken into account to make sure the right systems can be provided for the right person at the right time. In developing the system especially for other organization, analysis and design is also important to be acknowledge. Generally, information system analysis and design can be defined as a complex, challenging, and stimulating organizational process that a team of business and system professionals uses to develop and maintain computer-based information system. In other words, it focus tend to be on the systems, process and the use of the technology in order to provide the effective and useful systems.

Usually, this information system analysis and design is used to help in analyzing and designing the new system in order to help other organization or institution that required an effective system to be used. For instance, the development of the new system that we choose to develop, build, analyze and design which is E-Pintar system.

The reasons is because the staffs of “Taska” have encounters difficulties whenever they want to update, key in, records and so on regarding the activities, personal information, and many other information of the children as they still using the traditional system method of updated and key in the information. They tend to use manual style of system which through the use of papers and file. As that reasons, they do required to have more systematic and effective system to help them in updating their data and information. So with the E-Pintar system that our development team members develop, created and design, will help to change their manual method into computer-based method to make it more effective and efficient. Here we as the development team are going to explain more regarding the identification and selection process in developing the system for “Taska” which is the organization that we choose to help.

2.0 PROJECT OVERVIEW

E-Pintar System

The name of the project that will be create and develop is known as E-Pintar system which is dedicated for the staffs at “Taska”. This is to help them to have the better and effective system to be used in order to handle all the information and data that need to be recorded compared to the current manual application method that being used which is the paper-based method. By this way, it will help them to avoid from losing the important records of children information or organization information since the system provided will help them in keeping all of the records securely without have to worry of any losses. This system also will help the management of the information and the data getting more efficient and accurate.

Besides, this project will provide an effective easy database, input forms and report in order to automate all the information produced whenever a staffs at “Taska” filling and update the information regarding the children activities.

The purpose of this project is to make all the information regarding the children details can be more systematically arranged and being more secured and protected against any problem. It is also to help minimize the amount of time used or required by the staffs in order to fill in the form of paper in order to record the children’s information. This project also to help the staffs to easily update all the data and information about the children as well as delete the record effectively without any error or difficulties.

In this system of E-Pintar, we tend to create one systematically system where the parents of the children are allowed to view the activities of their children that being recorded in the E-Pintar system by the staffs. The parents also are allowed to see the development of their children, their attendance, and their children profile details. In this system also, the staffs are able to update all information about the children records in system forms, key in about their activities, their health conditions, their level of education, learning and many more. This system will be programmed by using the PHP software. This is the software which the staffs can use and automate the data easily without any difficulties. We also are going to develop a system that is user-friendly, easy in term of use, apply and understand it with interactive interface in order to fulfill the organization requirement and needs.

3.0 Developer Profile

Project Manager/ System Administrator

Academic Qualification:

- Bachelor Degree in Information Management System (Hons.)
- Diploma in Information Management

Work Experience:

- Five years working experience as a programmer at Intel Company.

Salary:

- RM 15,000.00

Roles and Responsibilities:

- Responsible for the upkeep, configuration, and reliable operation of the computer.
- Acquire, install or upgrade the computer components and software.
- Provide routine automation, maintain security policies, troubleshoot, train or supervise staff or offer technical support for projects.

4.0 Objectives of System

- Improve management of records in line with record management policy.

  This system is develop to save time for staff key in data and make sure staff easier to check and update the activity for children based on the system we build. This is because based on interview, staff must use manual way to check and update children activity and their outcome, and the staff must have a log book to write down the list of the activity and their outcome for the activity they attend. Before this the staff must use this manual way and it make they take time and high cost for buy a things such as a log book. When we build this system for them, it can make they save their time and easy to regular check the activity for the children.

- Develop platform to share information and news among stakeholders.

  This system is to ensure staff easier to make a list the activity have at Taska and staff also can update the performance of children so that parents can view by the portal to see their child performance activity through the portal.

5.0 FUNCTION

These are some function of our system of E-Pintar:

- Ability to collect all the correct data and information effectively. This system created should be able to include all the feature like accessing, customizing and maintaining the data and information systematically.
- Ability to update and delete all data and information required. The system should have the ability to update, make any correction or changes of any data and information and delete any non-useful or error information or data.
- The system must be highly secured and well-protected. It is essential to make sure that the system created should only be able to accessed and edited by the authorized staffs with right ID card number.

E-Pintar System are going to be useful and effective to the organization in the purpose of handling and managing the staffs' requirement. The authorized staffs will be more easier and save more time in updating the content of the E-Pintar system and key in the information about the children easily and effectively. The parents also will be easy to view all information updated about their children without any difficulties or curiosity whenever they want. The reminder also will be easy to be given to the parents through this system. By developing this system, it will help in improving some process in the organization and it is systematically reliable.

6.0 SYSTEM DESCRIPTION OPERATION

First and foremost, this system is develop and created only dedicated for the management of "Taska" only. This E-Pintar system is going to be developed and built by using PHP programme software. Developer tend to develop a system that is surely user-friendly, easy to use and navigate, easy to understand, standard language is used, interactive and have attractive interface. This system will be provided with password and username in order to be able to log in into the system. Whenever the parents view the information about the children, they will required the password and username. The staffs are the one who have the only right to log in and do the process of key in the children details, change, updated or even delete the data and information details. What the staffs have to do by just search the children details or data by using the children's name or the ID number.

7.0 SCOPE / LIMITATION

Scope can also be defined as function to be included in the system. An effective scope management can help to achieve the project goals. Before creating a system, it is important to identify the scope. It is essential in order for a developer to have remained focus. It is to ensure that the system have the target audience. For this project, scope that will be cover is between staffs and parents. This system had been identified that can help users in their daily business.

The first scope is staff at Taska. In Taska, there will be dividing into various departments// which represent the scope of their task. Each department have their specialization. For this system, it is focused to staff at Taska. This system will help staff to smooth their works. Staff can easily update any information about student and parents that already register at the Taska. Staff will become more alerts about their students. It can help staff to take fast action towards anything about their students.

This system not only focused on staff the Taska, but also to parents that already register their children as part of the Taska student. This system can provide information for the parents to know and understand more about the Taska event , activities and also about their children performance. Parents can directly see their children performance and activity happens at Taska through their mobile phone or any devices. They did not have to go to Taska to know about their children performance.

This system can manage all data and business processes associated with applicants, organizations, parents, and staff. In addition to an efficient and effective means to manage constituency data, the system will provide a portal for prospects to update information, see any details and information regarding to children , parents and staff.

8.0 GANCHARTT AND MILESTONE (PLANNING)

For this E-Pintar system, the schedule feasibility or analysis is used to assessing the schedule feasibility in gaining the understanding of the all potential time frames and completion date schedules can be met and that the meeting these dates will be sufficient for dealing with the need of the training department. As the developer of project E-Pintar system have developed a baseline task and resource allocation schedule and have attached a report of task actual start/completion dates compared to the baseline start/completion dates. The Project Manager has assigned resources to best utilize time.

ACTIVITY	**MARCH 2018**	**MARCH 2018**	**APRIL 2018**	**MAY 2018**	**MAY 2018**
PROJECT IDENTIFICATION					
PROJECT INITIATION & PLANNING					
ANALYSIS					
IMPLEMENTATION					

The figure above is explained about timeline in developing a new system for Taska. Start from March 2018, I identified my project, and the next month I come out with project initiation and planning. The following month, Researcher doing the analysis by interviewing the user requirements. After the proper of planning and analysis, the project can proceed to the next step, which is implementation, where I start to write coding for the program.

The completed tasks are included:

Project Initiation and Planning	• Establish a Project Initiation Team • Establish a relationship with the customer • Establish management procedures • Divide the project into manageable tasks • Estimate resources and create resource plan • Develop preliminary schedule • Develop a communication plan • Determine project standards and procedures • Identify and assess risk • Perform technical and operational feasibility studies • Develop Statement of Project Scope
Analysis	• Determine database requirements • Determine web site requirements • Generate alternative designs and recommendation • Acquire customer selection • Update Baseline Project Plan
Logical/Physical Design	• Develop prototype • Acquire customer approval for database • Furnish data dictionary • Research and compile a list of search engines
Implementation	• List web site with search engines • Test web prototype • Test database prototype • Convert web site prototype to production • Convert customer database to production • Document database system

9.0 BUDGET/ COST REQUIRE AND HARDWARE AND SOFTWARE

Hardware and software are the most important element in supporting the using of the E-Pintar Portal System. For the system that will be develop, there are some differences of hardware and software that will be used by staff and parents/guardian. As it shown in the table:

HARDWARE			
Staff		**Public**	
Monitor	RM 239.00 (1 unit)	Mobile phone	N/A
Mouse	RM 30.00 (1 unit)	Tablet	
System Unit	RM 889.00 (1 unit)		
Photocopier	RM 4,134.00 (1 unit)		
Printer	RM 280.00 (1 unit)		
Scanner	RM 366.00 (1 unit)		
TOTAL	**RM 5,938.00**		

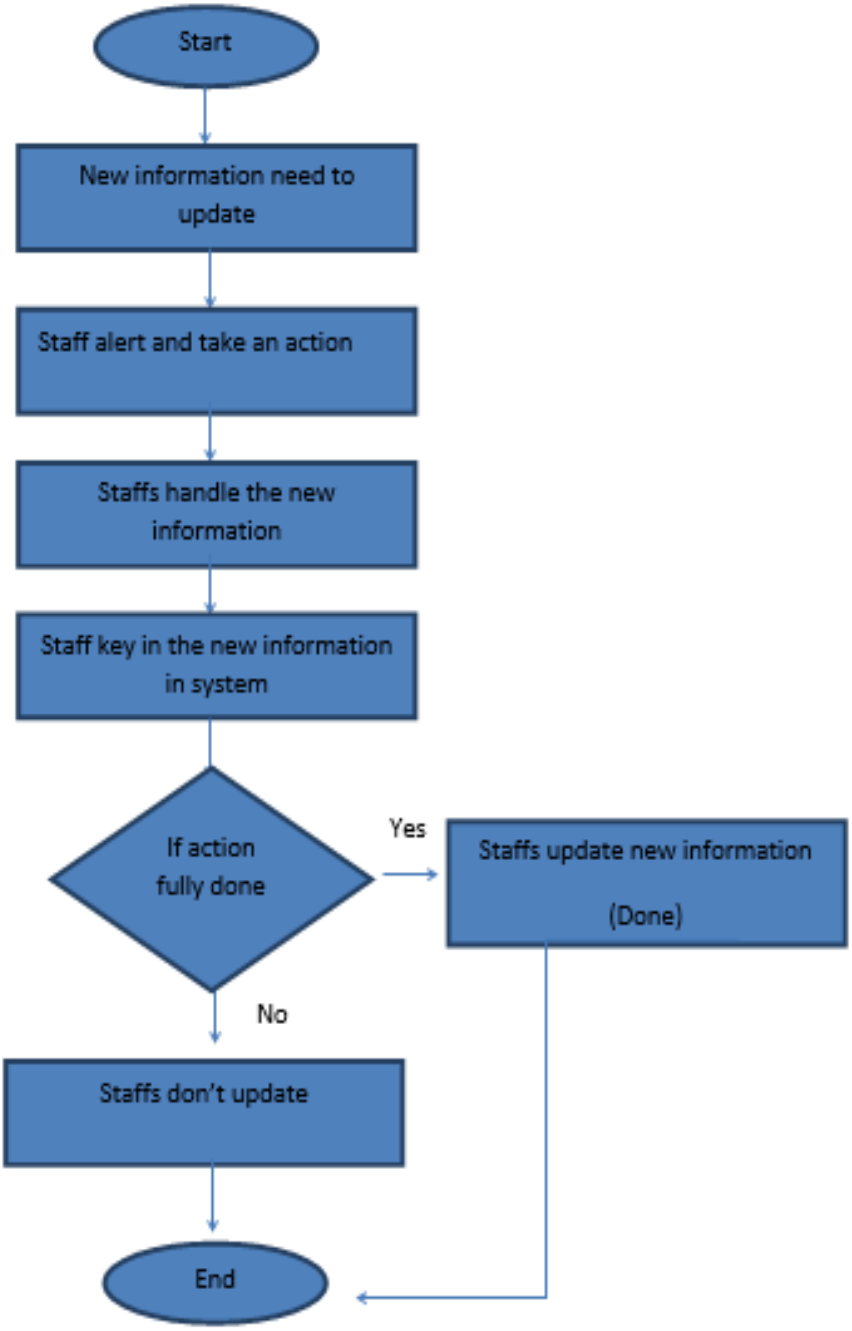
Table 2: List of hardware and prices

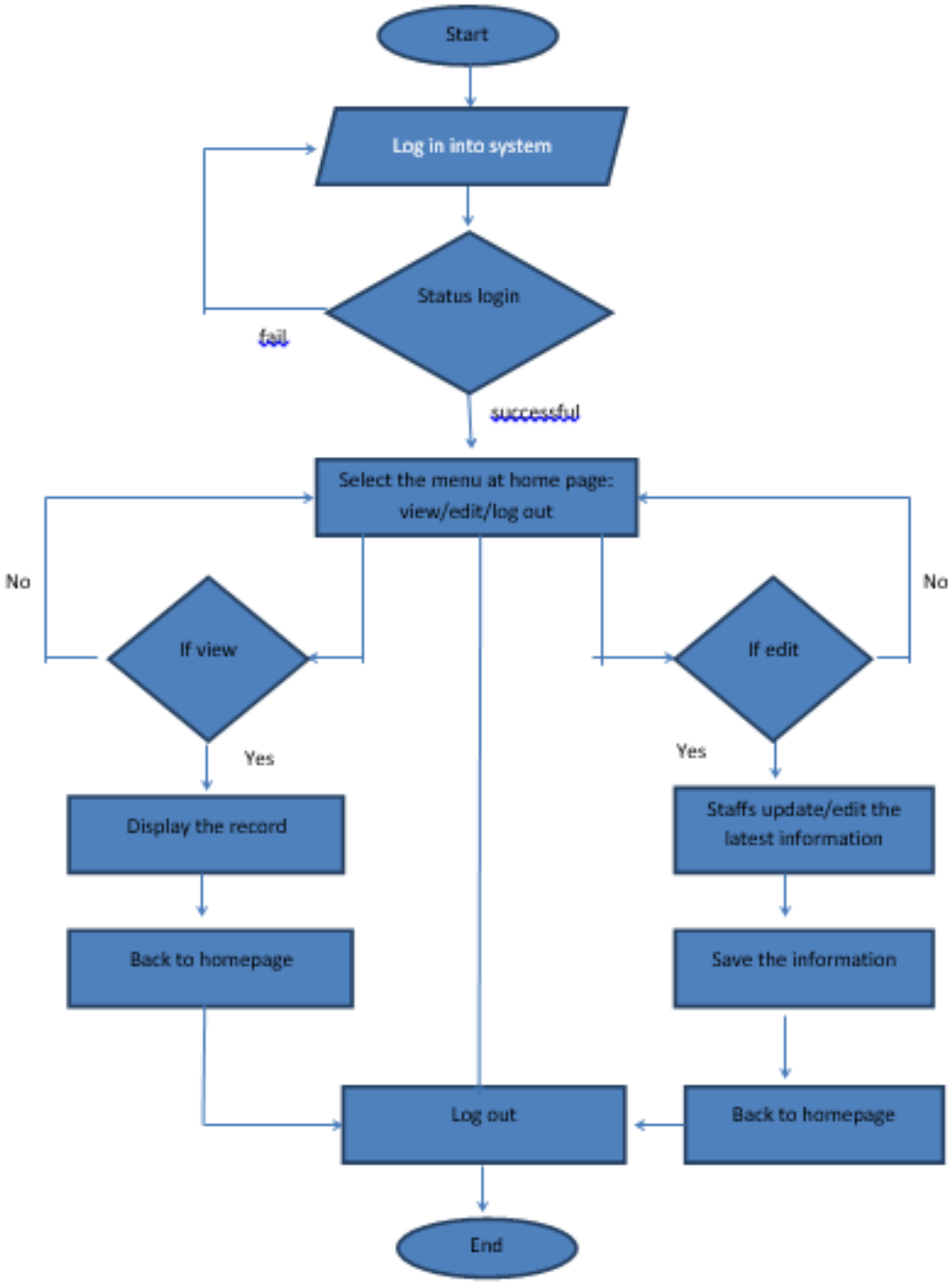
SOFTWARE			
Staff		**Public**	
• Microsoft Office • Microsoft Access • Microsoft Word	RM 562 (1 Unit)	Search Engines • Google Chrome • Opera • Mozilla Firefox • Internet Explorer	N/A
Portable Document Format (PDF)	RM 229 (1 Unit)		
Adobe Photoshop	RM 458 (1 Unit)		
Adobe Dreamweaver	RM 359 (1 Unit)		
TOTAL	**RM 1,608.00**		

HARDWARE OR SOFTWARE	FUNCTION
Monitor	To show the information that receive on the monitor screen
Mouse	To point and select the information that appear in the monitor
System Unit	To support the fully use of computer
Photocopier	To make a copy of the report and record information
Scanner	To scan the reports and records that has been key in by a staff in order to convert into electronic form
Printer	To print a report and records that receive from the system
Mobile Phone	Use by parents to view the evaluation and information of their children and Taska
Tablet	Use by parents to view the evaluation and information of their children and Taska
Microsoft Word	To re-type the report and records received for further use
Microsoft Access	To design and control the database system
Portable Document File (PDF)	To captured all the elements of a printed document as an electronic image that staff can view, navigate, print or forward to others
Adobe Photoshop	To create the logo or design for the website and system
Adobe Dreamweaver	To design the Taska website in order to match it with the new system which is E-Pintar System
Search engines • Google Chrome • Opera • Mozilla Firefox • Internet Explorer	• To help staff access the report and records in their collection • To help parent view a evaluation and monitoring their children performance online by using this search engine

10.0 SYSTEM FLOWCHART/DIAGRAMS

FLOWCHART

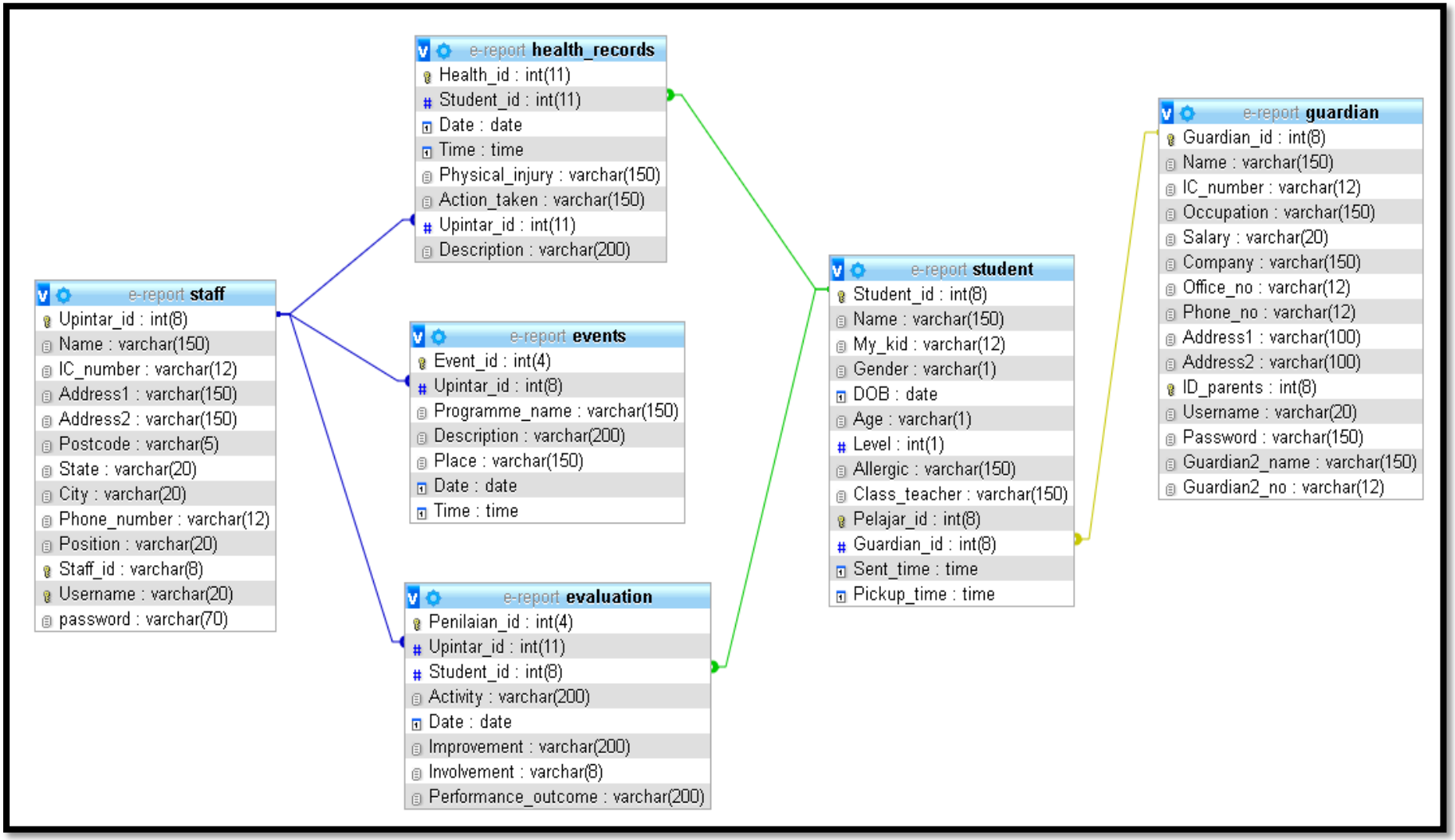




BUSINESS RULES

- Many staff can evaluate many children
- A staff can do many evaluation
- Many evaluation can be made for one children
- Many evaluation can be made by one staff
- An evaluation need to be made everyday.

11.0 ER DIAGRAM



12.0 DATA DICTIONARY

Table structure | Relation view

STAFF

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	**Upintar_id**	int(8)			No	*None*		AUTO_INCREMENT	Change Drop Primary More
☐	2	**Name**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	3	**IC_number**	varchar(12)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	4	**Address1**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	5	**Address2**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	6	**Postcode**	varchar(5)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	7	**State**	varchar(20)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	8	**City**	varchar(20)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	9	**Phone_number**	varchar(12)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	10	**Position**	varchar(20)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	11	**Staff_id**	varchar(8)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	12	**Username**	varchar(20)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	13	**password**	varchar(70)	latin1_swedish_ci		No	*None*			Change Drop Primary More

Table structure | Relation view

EVALUATION

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	**Penilaian_id**	int(4)			No	*None*		AUTO_INCREMENT	Change Drop More
☐	2	**Upintar_id**	int(11)			No	*None*			Change Drop More
☐	3	**Student_id**	int(8)			No	*None*			Change Drop More
☐	4	**Activity**	varchar(200)	latin1_swedish_ci		No	*None*			Change Drop More
☐	5	**Date**	date			No	*None*			Change Drop More
☐	6	**Improvement**	varchar(200)	latin1_swedish_ci		No	*None*			Change Drop More
☐	7	**Involvement**	varchar(8)	latin1_swedish_ci		No	*None*			Change Drop More
☐	8	**Performance_outcome**	varchar(200)	latin1_swedish_ci		No	*None*			Change Drop More

Table structure | Relation view

EVENTS

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	**Event_id**	int(4)			No	*None*		AUTO_INCREMENT	Change Drop Primary More
☐	2	**Upintar_id**	int(8)			No	*None*			Change Drop Primary More
☐	3	**Programme_name**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	4	**Description**	varchar(200)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	5	**Place**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	6	**Date**	date			No	*None*			Change Drop Primary More
☐	7	**Time**	time			No	*None*			Change Drop Primary More

Table structure | Relation view

GUARDIAN

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	**Guardian_id**	int(8)			No	*None*		AUTO_INCREMENT	Change Drop Primary More
☐	2	**Name**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	3	**IC_number**	varchar(12)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	4	**Occupation**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	5	**Salary**	varchar(20)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	6	**Company**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	7	**Office_no**	varchar(12)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	8	**Phone_no**	varchar(12)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	9	**Address1**	varchar(100)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	10	**Address2**	varchar(100)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	11	**ID_parents**	int(8)			No	*None*			Change Drop Primary More
☐	12	**Username**	varchar(20)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	13	**Password**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	14	**Guardian2_name**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	15	**Guardian2_no**	varchar(12)	latin1_swedish_ci		No	*None*			Change Drop Primary More

Table structure | Relation view

HEALTH

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	**Health_id**	int(11)			No	*None*		AUTO_INCREMENT	Change Drop Primary More
☐	2	**Student_id**	int(11)			No	*None*			Change Drop Primary More
☐	3	**Date**	date			No	*None*			Change Drop Primary More
☐	4	**Time**	time			No	*None*			Change Drop Primary More
☐	5	**Physical_injury**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	6	**Action_taken**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	7	**Upintar_id**	int(11)			No	*None*			Change Drop Primary More
☐	8	**Description**	varchar(200)	latin1_swedish_ci		No	*None*			Change Drop Primary More

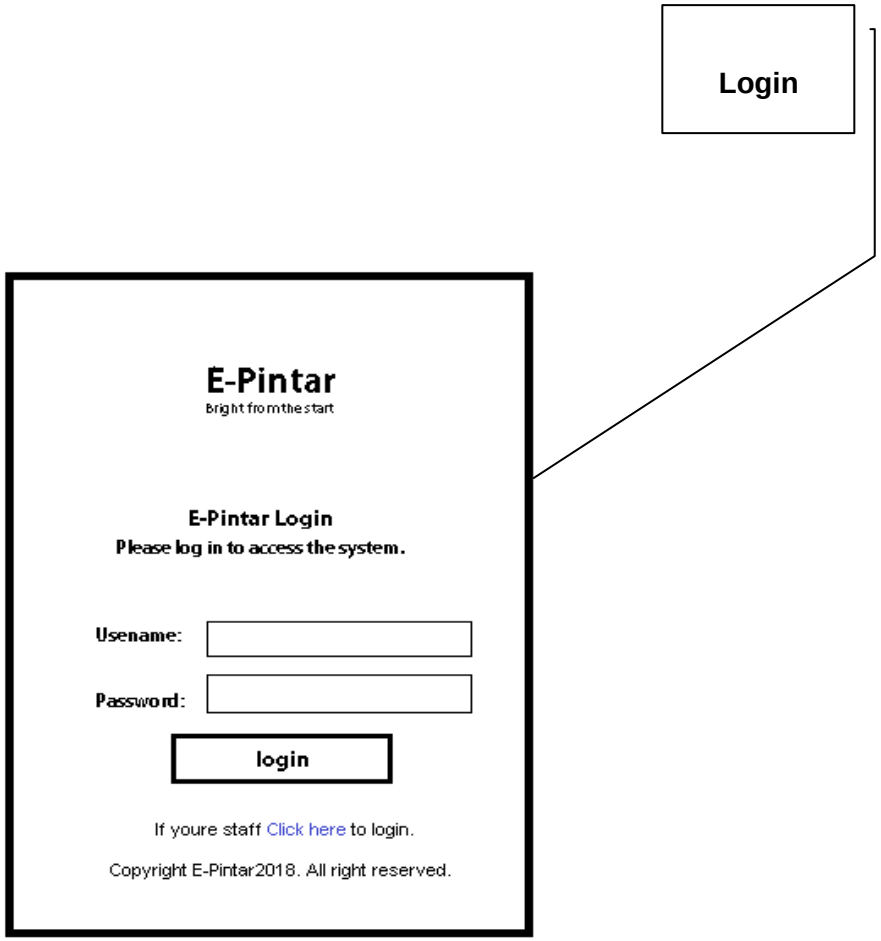
Table structure | Relation view

STUDENT

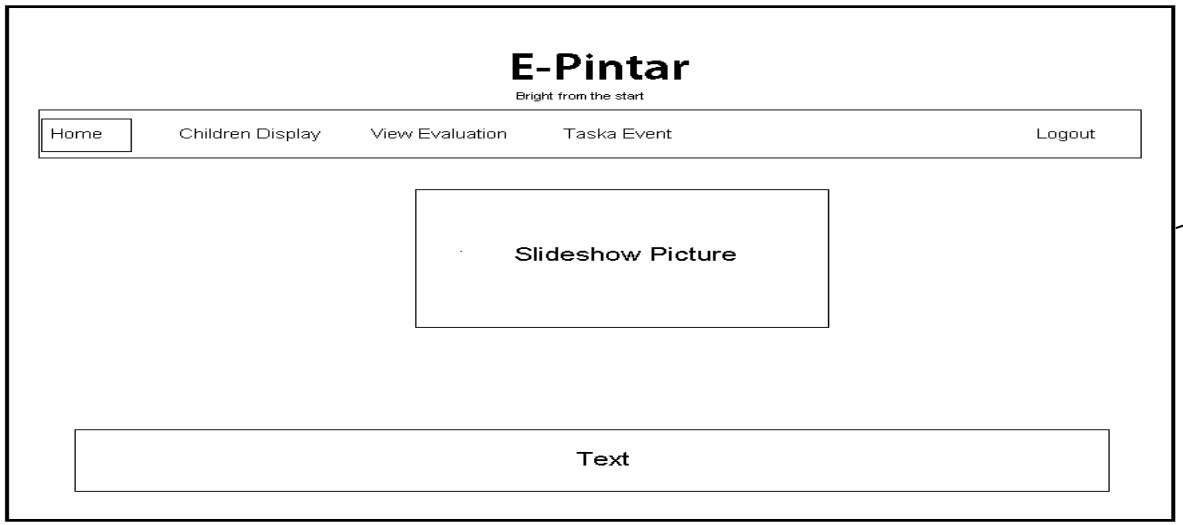
	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	**Student_id**	int(8)			No	*None*		AUTO_INCREMENT	Change Drop Primary More
☐	2	**Name**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	3	**My_kid**	varchar(12)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	4	**Gender**	varchar(1)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	5	**DOB**	date			No	*None*			Change Drop Primary More
☐	6	**Age**	varchar(1)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	7	**Level**	int(1)			No	*None*			Change Drop Primary More
☐	8	**Allergic**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	9	**Class_teacher**	varchar(150)	latin1_swedish_ci		No	*None*			Change Drop Primary More
☐	10	**Pelajar_id**	int(8)			No	*None*			Change Drop Primary More
☐	11	**Guardian_id**	int(8)			No	*None*			Change Drop Primary More
☐	12	**Sent_time**	time			No	*None*			Change Drop Primary More
☐	13	**Pickup_time**	time			No	*None*			Change Drop Primary More

13.0 STORYBOARD

13.1 Storyboard for Public

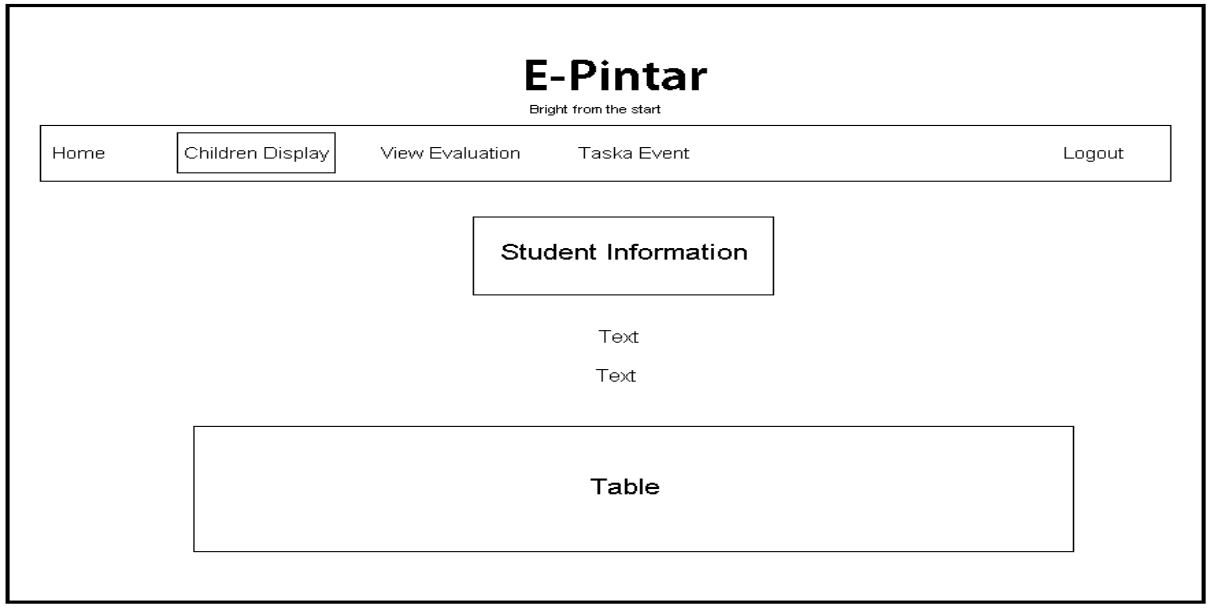


Homepage(Main page)

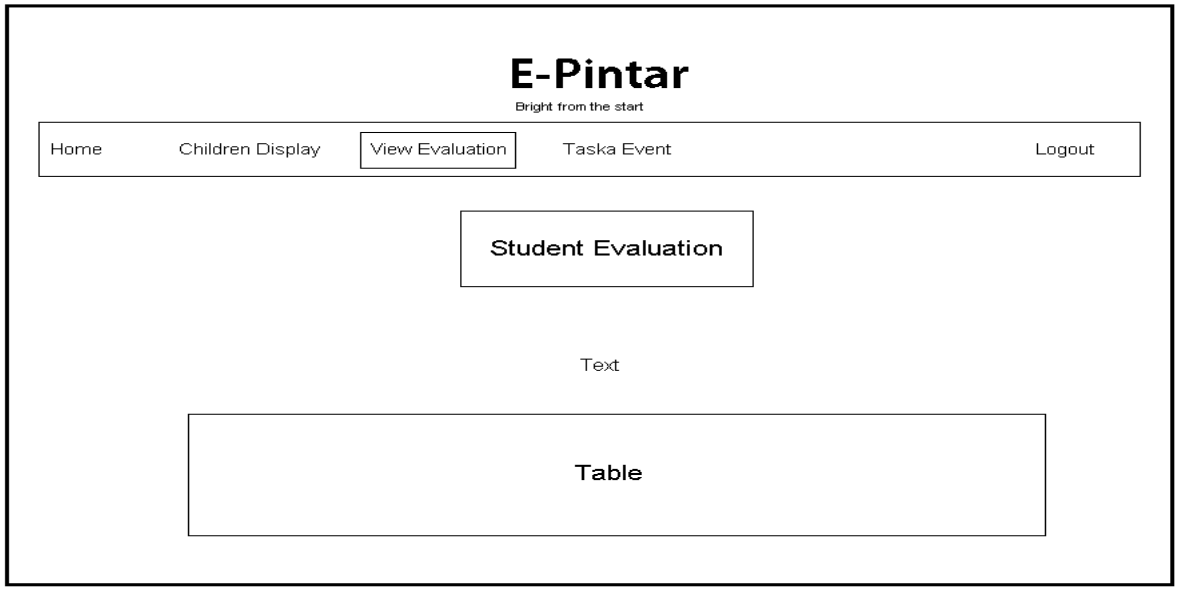


Text

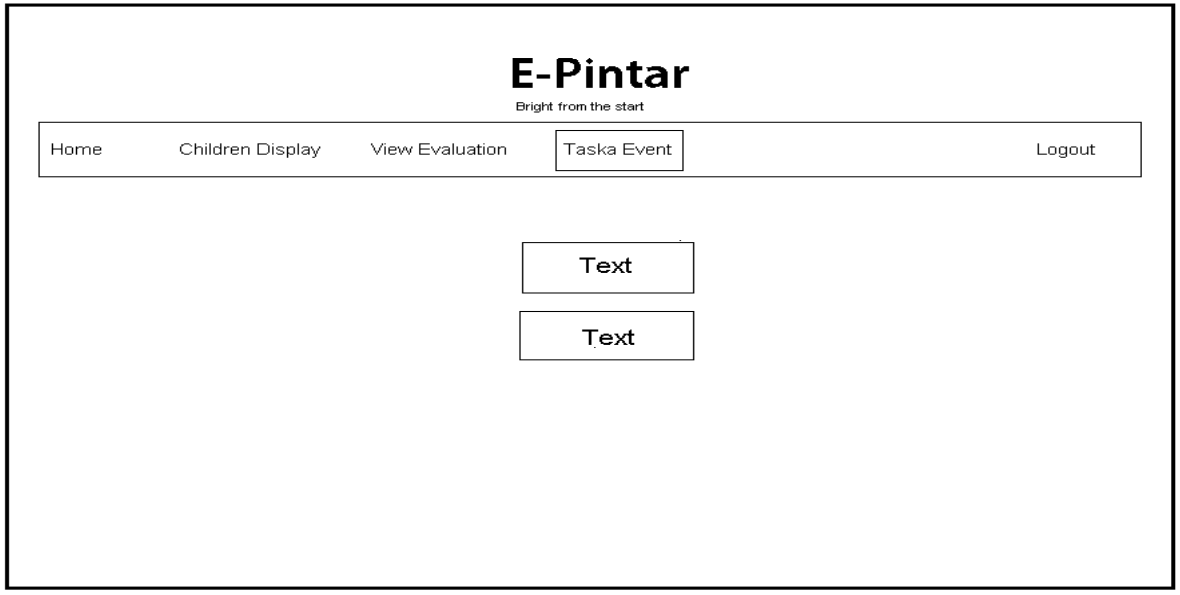
Children Display Page

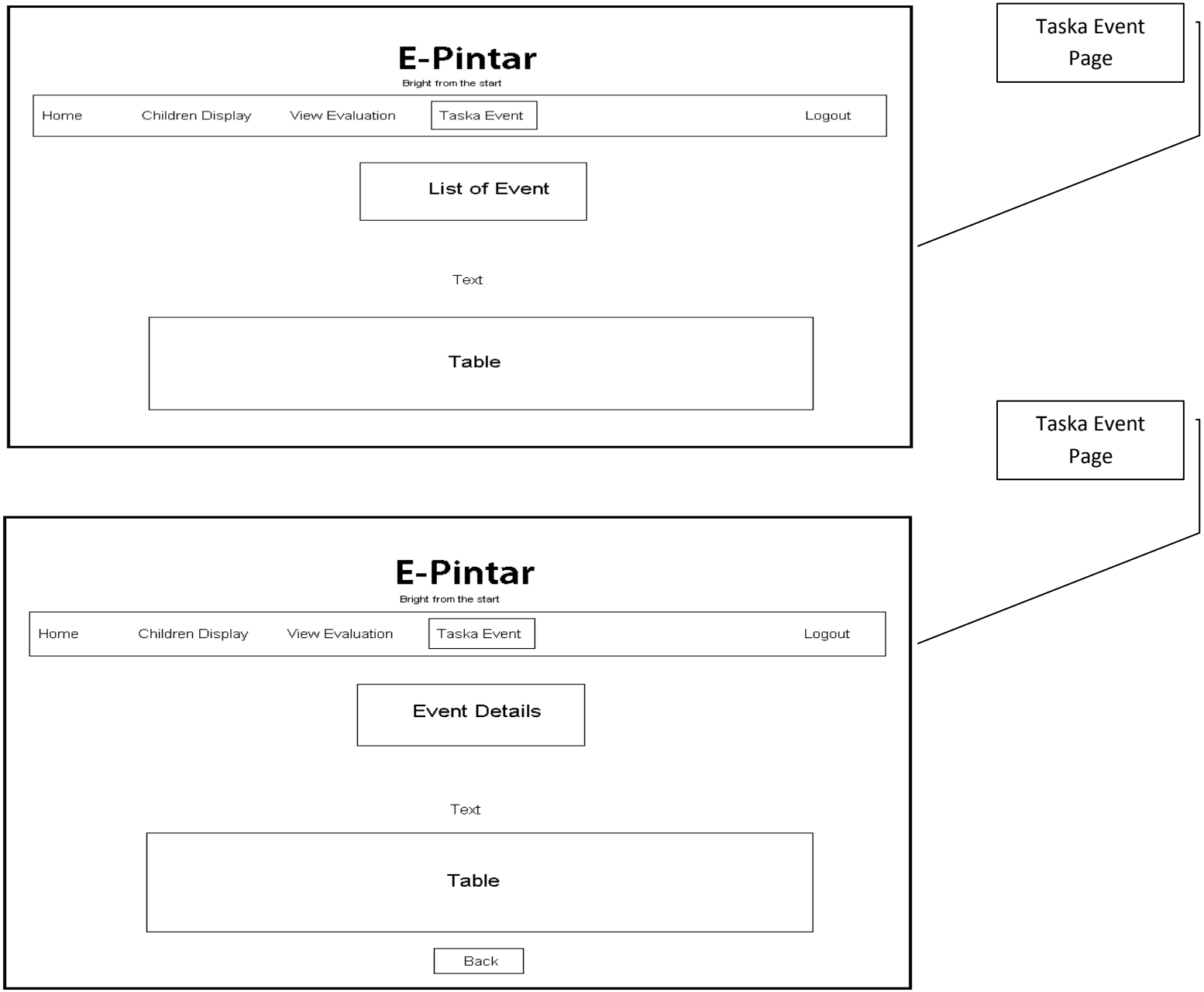


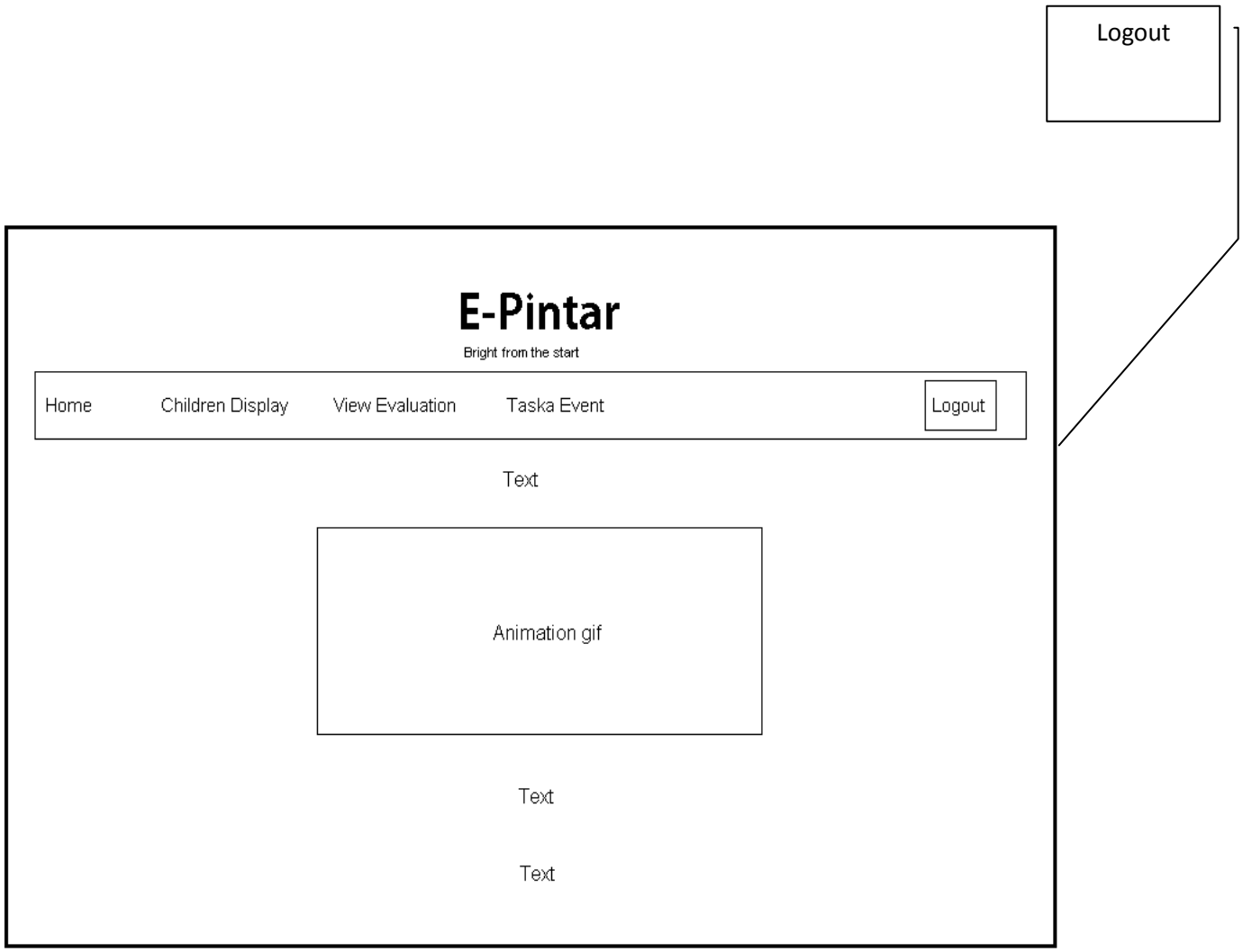
View Evaluation Page



Taska Event Page

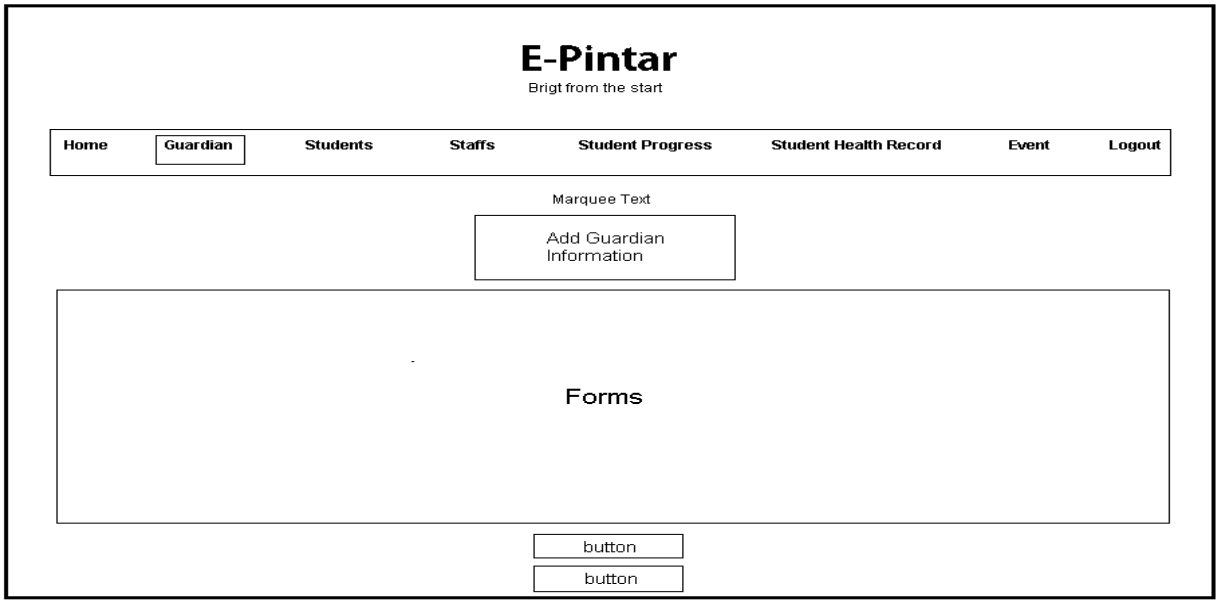



E-Pintar
Bright from the start
Home
Children Display
View Evaluation
Taska Event
Logout
List of Event
Text
Table
Taska Event Page
E-Pintar
Bright from the start
Home
Children Display
View Evaluation
Taska Event
Logout
Event Details
Text
Table
Back
Taska Event Page

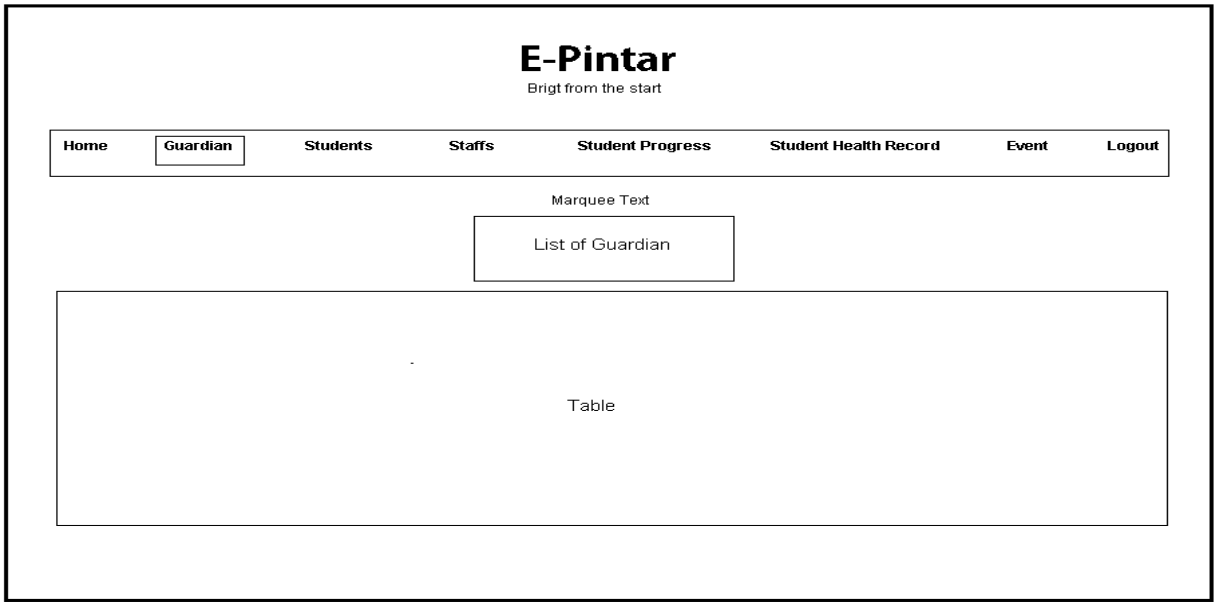

Logout
E-Pintar
Bright from the start
Home
Children Display
View Evaluation
Taska Event
Logout
Text
Animation gif
Text
Text

13.2 Storyboard for Staff (Teacher)

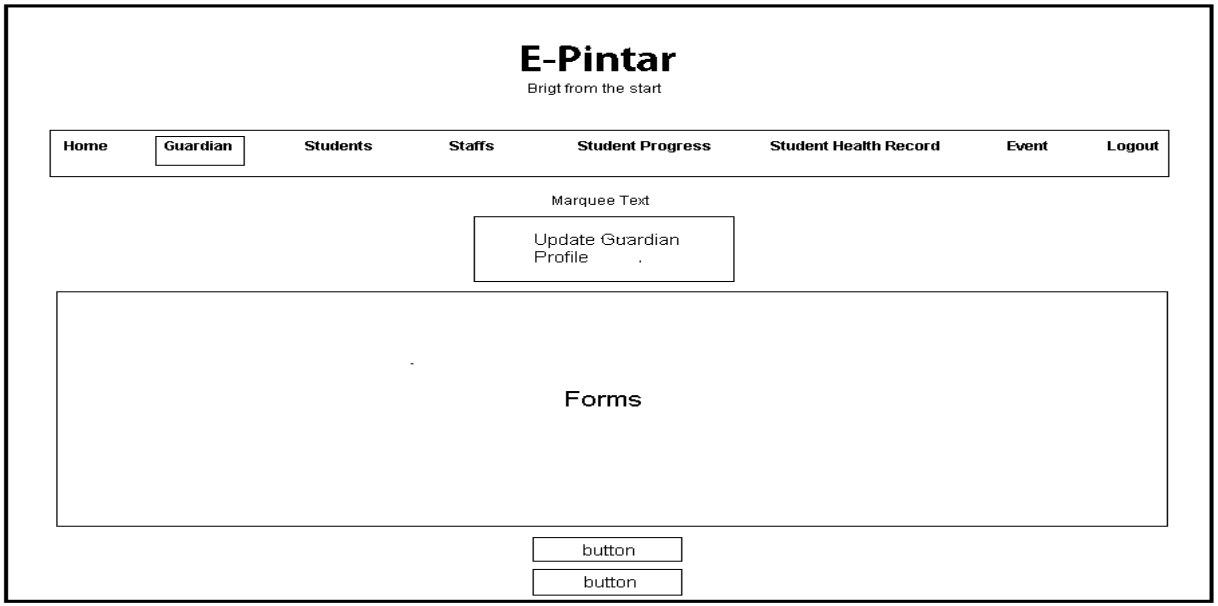
Guardian Page



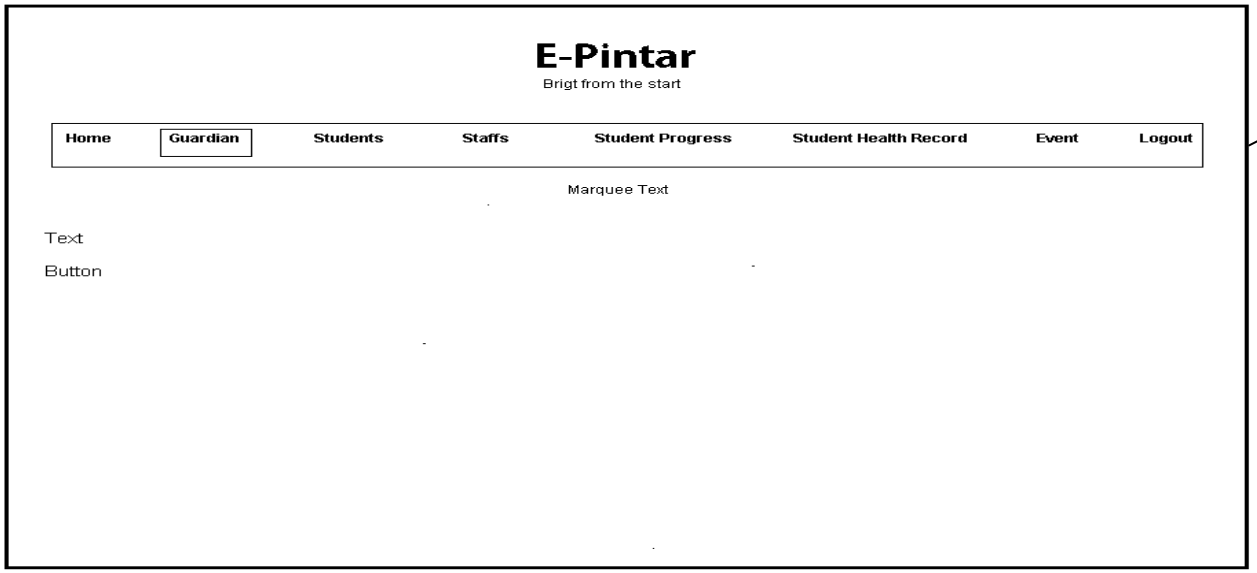
Guardian Page

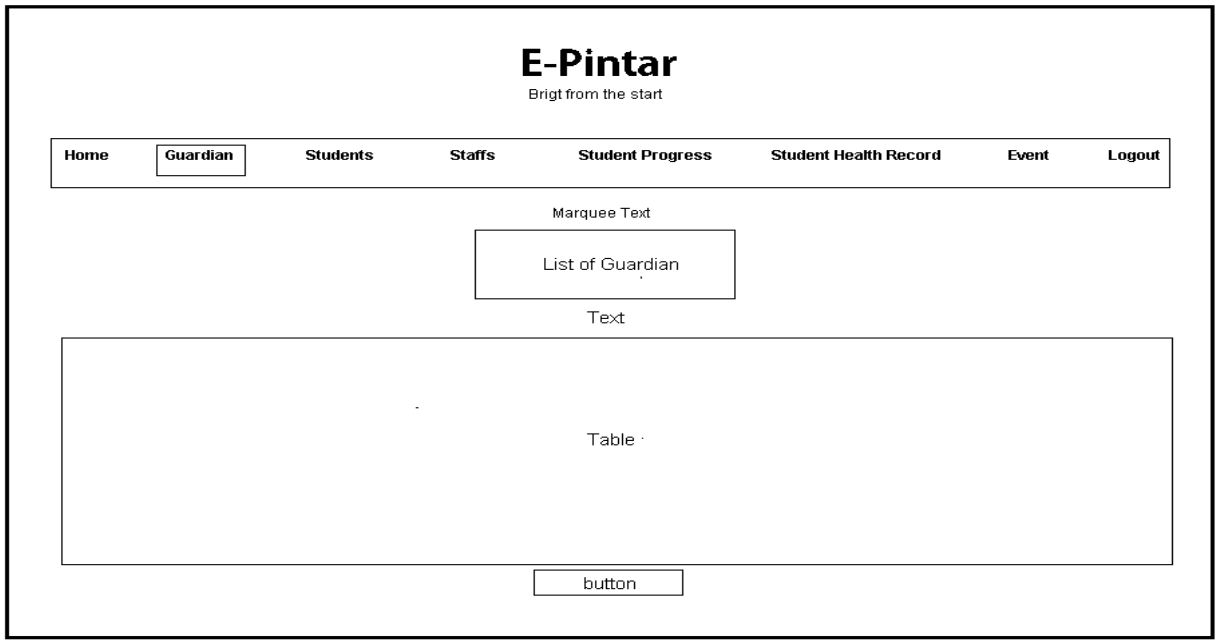


Guardian Page)

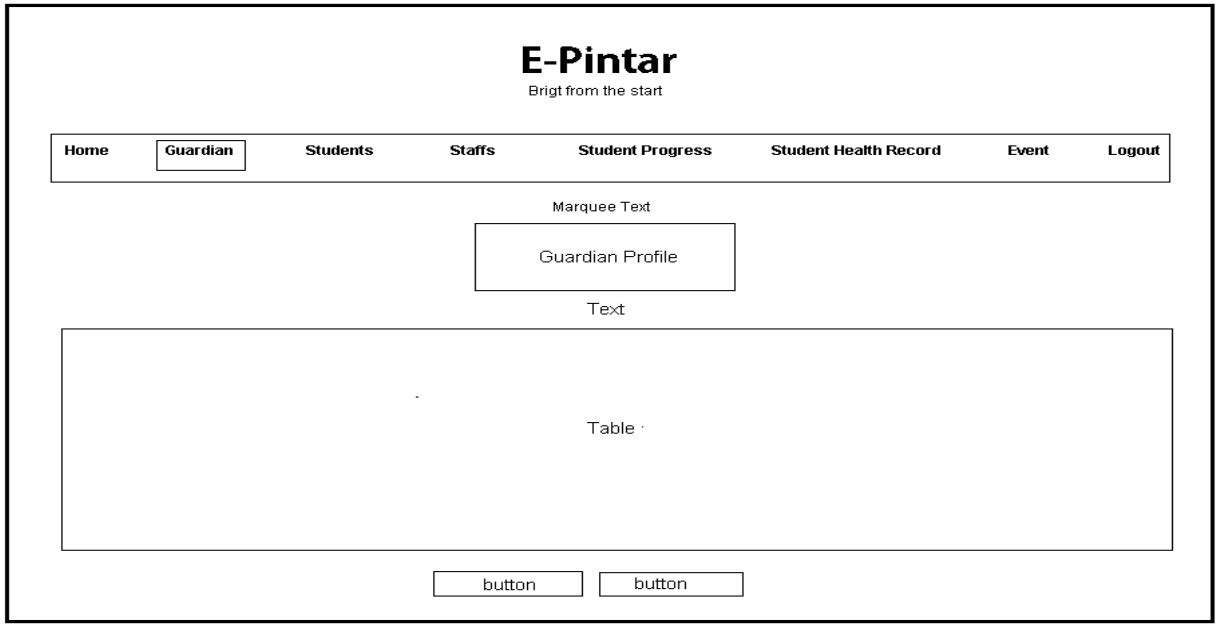


Guardian Page





Guardian Page



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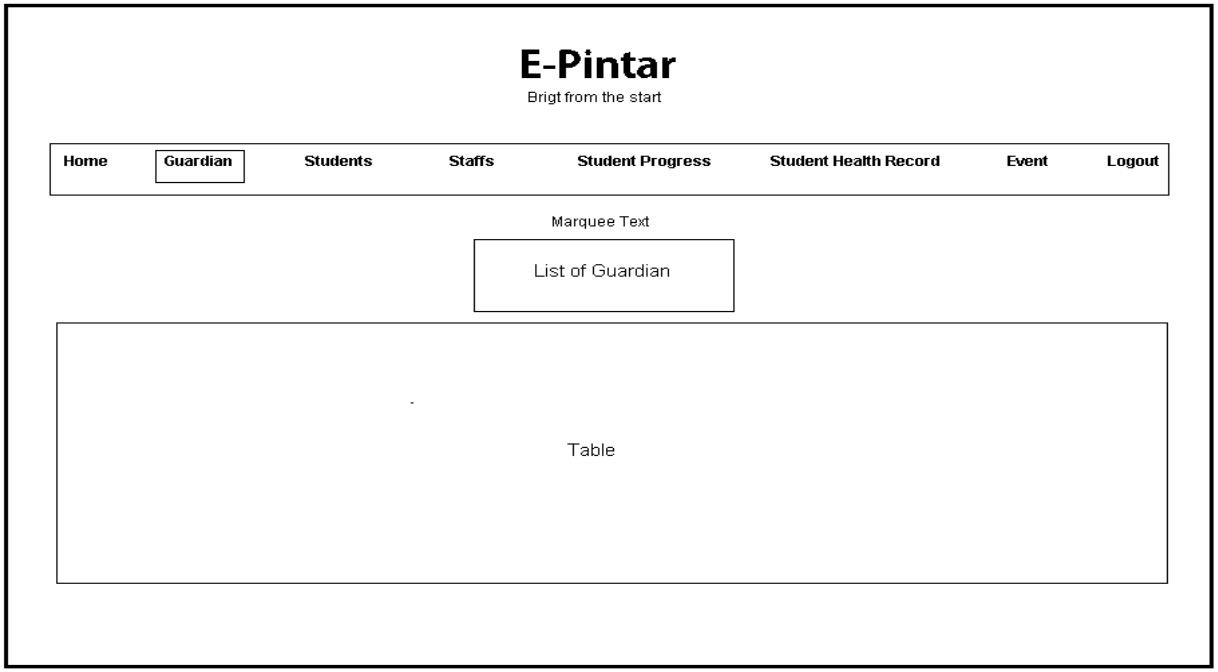

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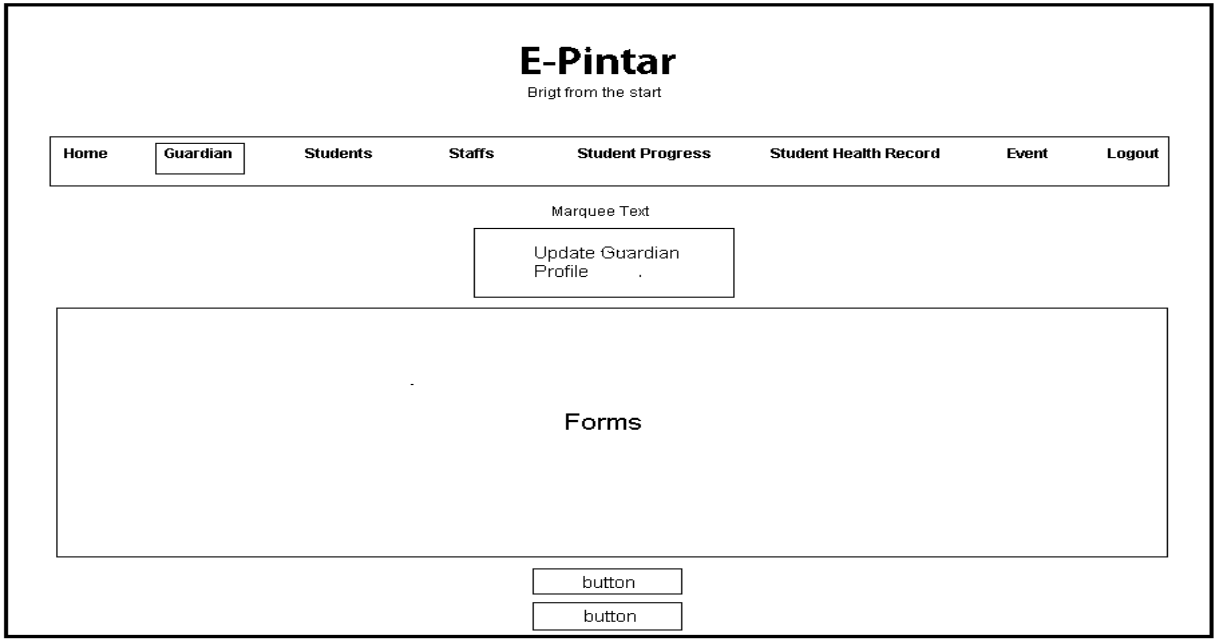

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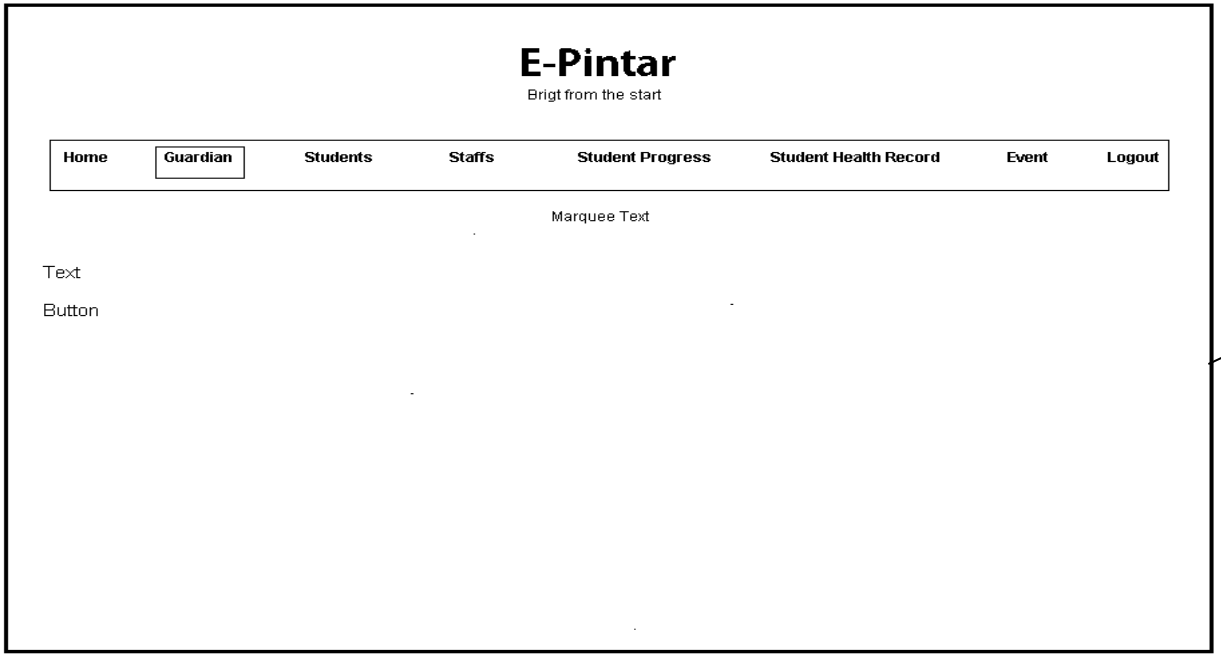

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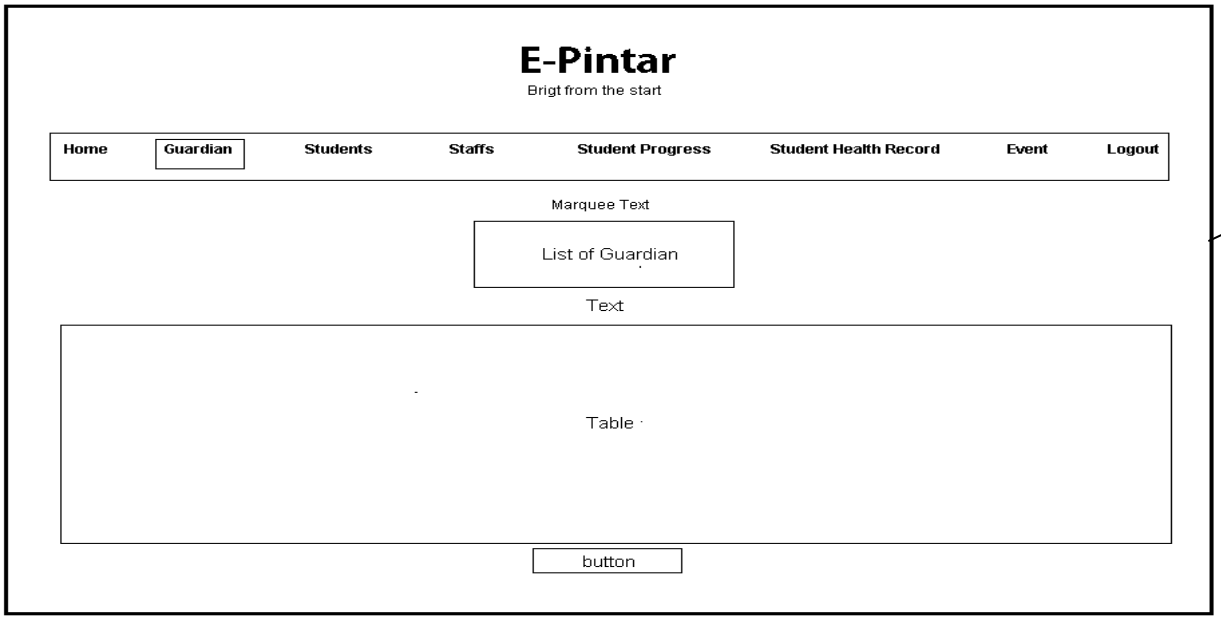

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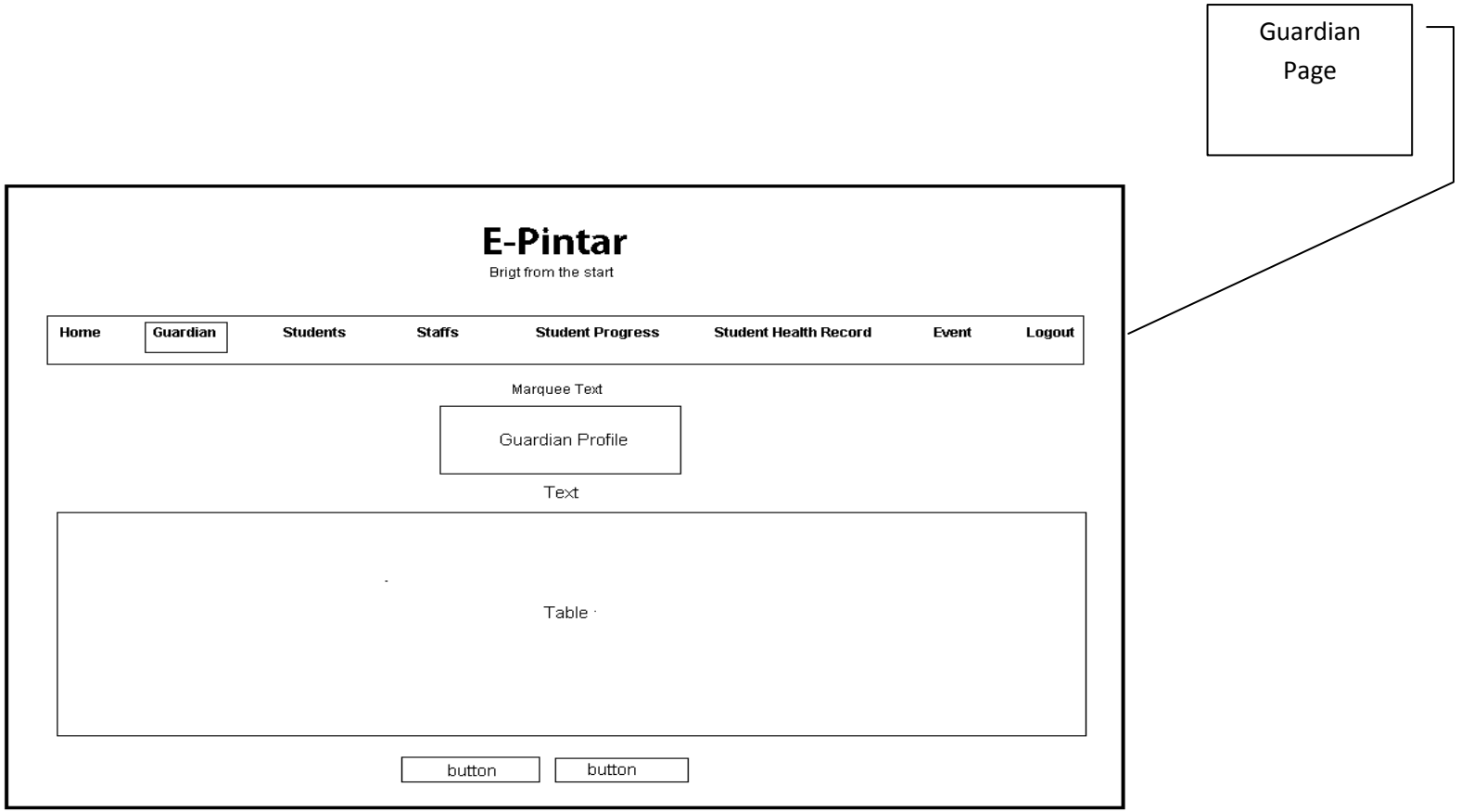
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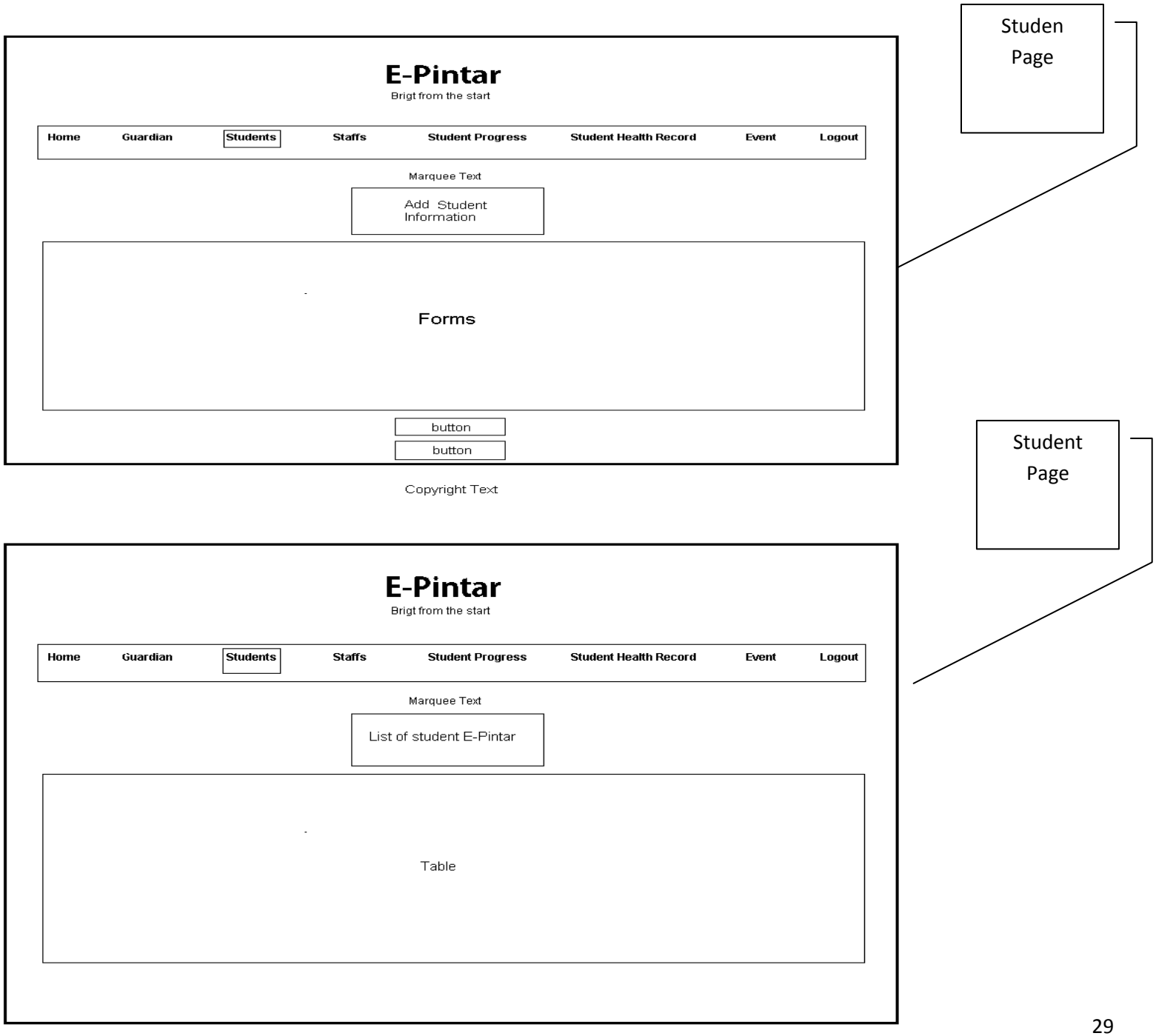
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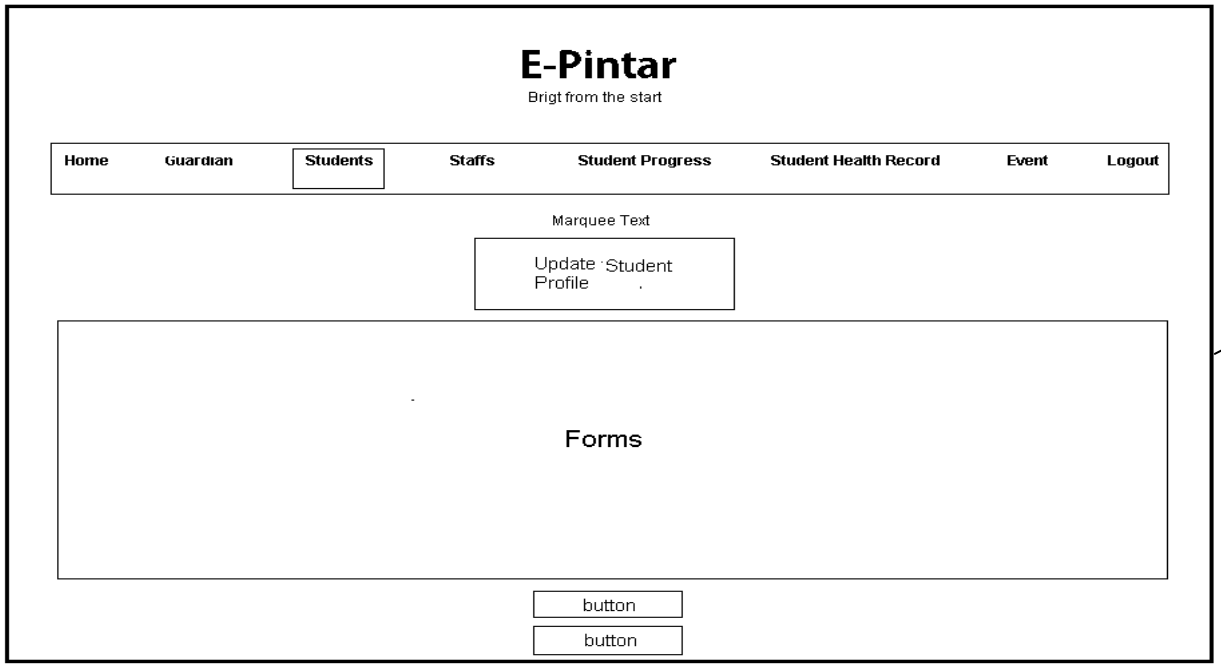

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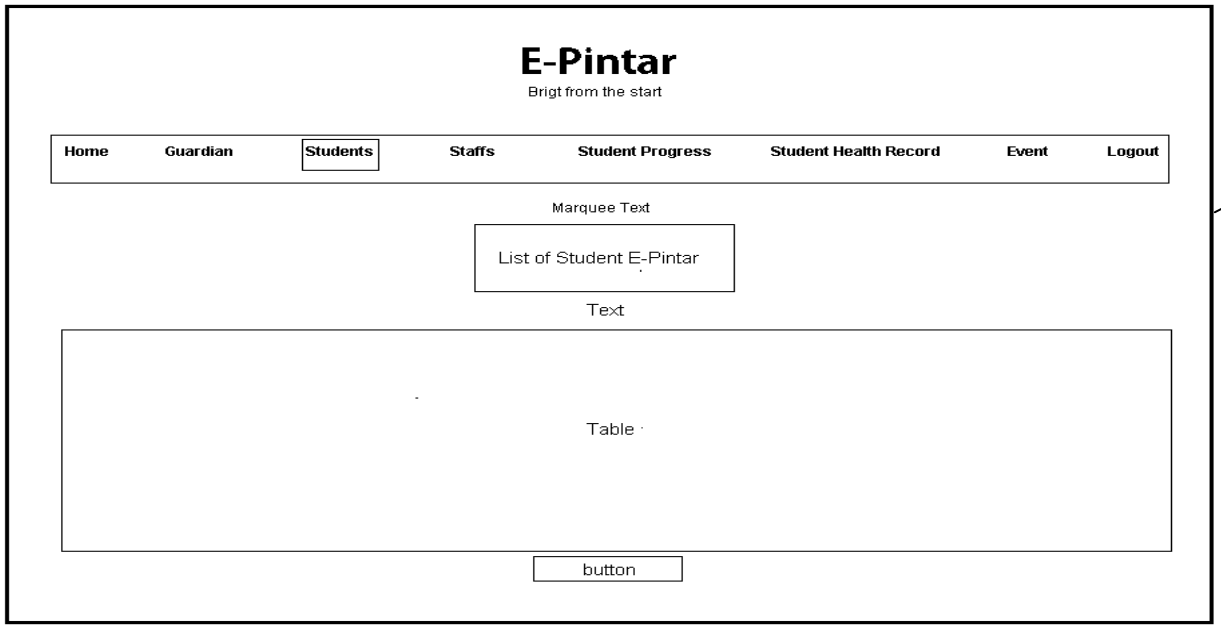

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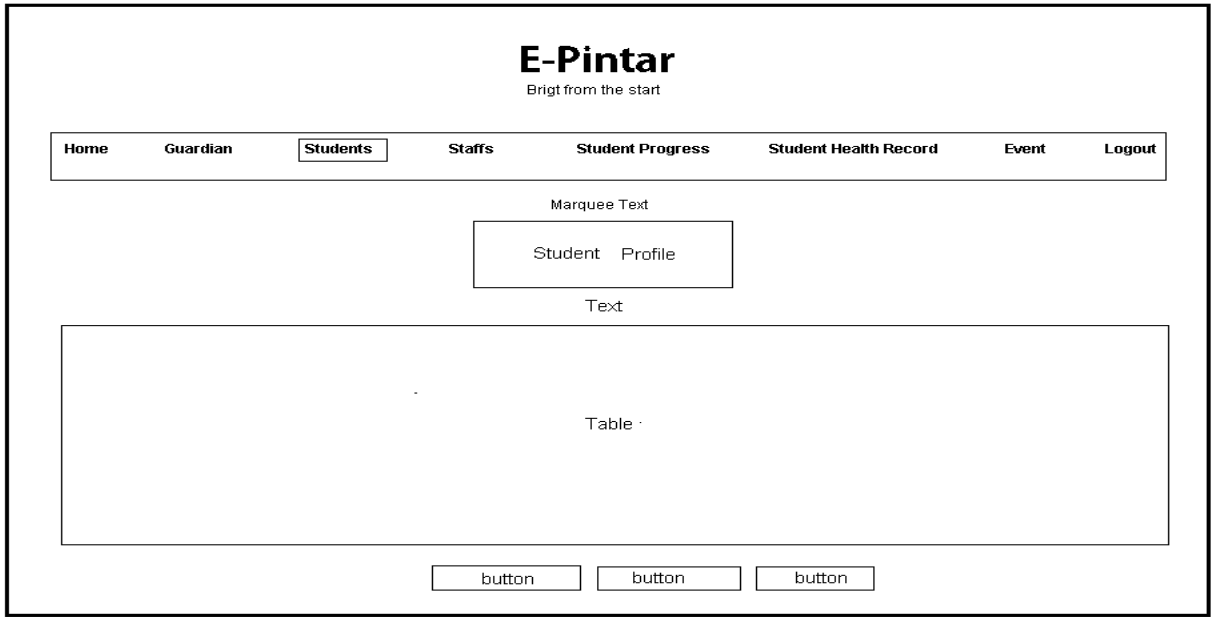

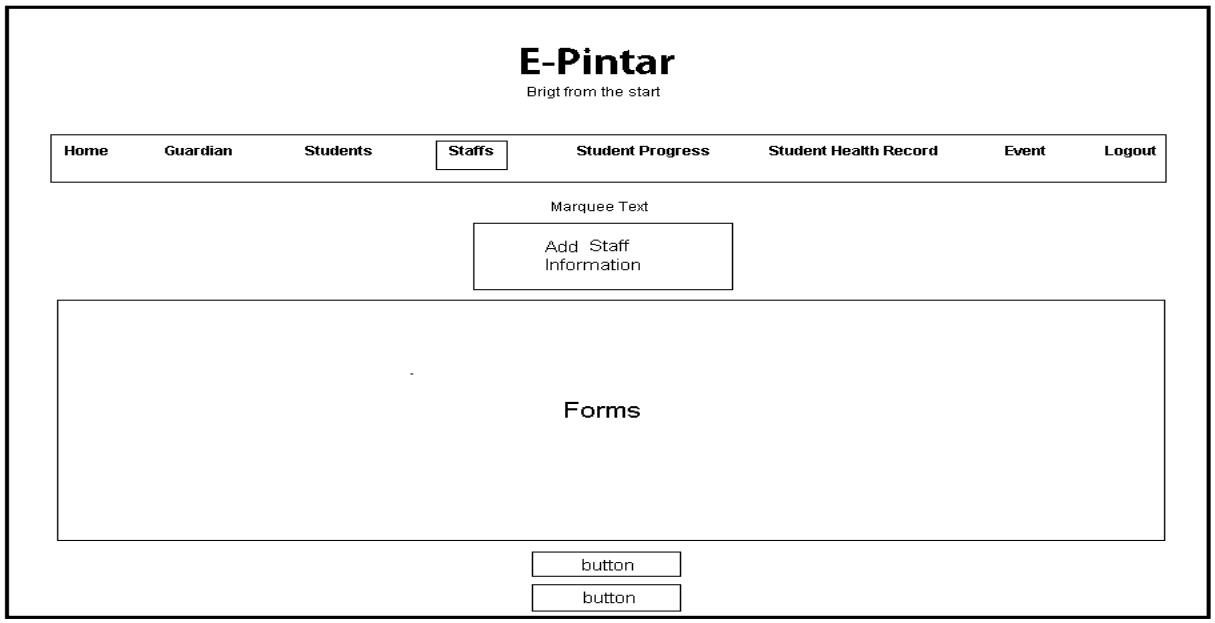

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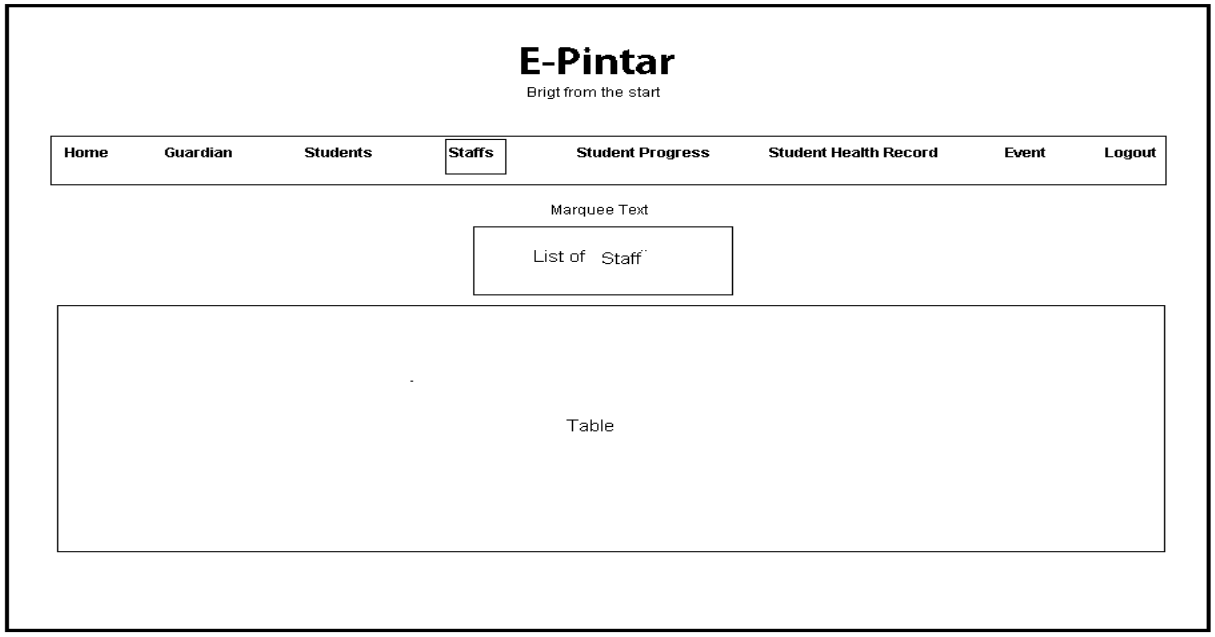

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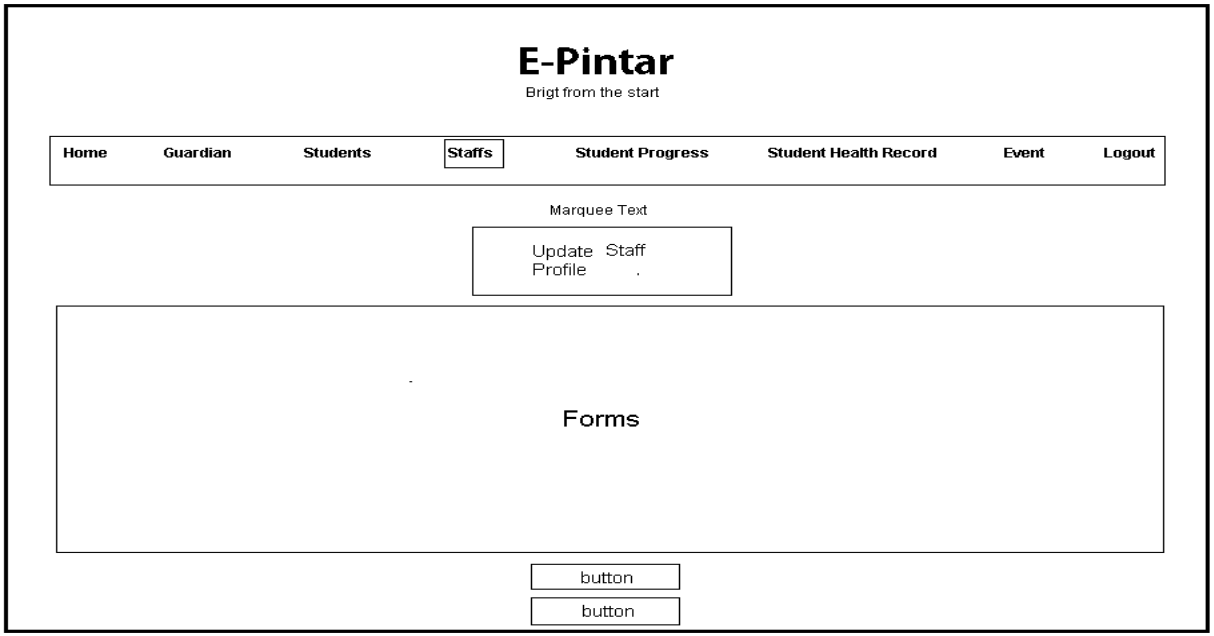

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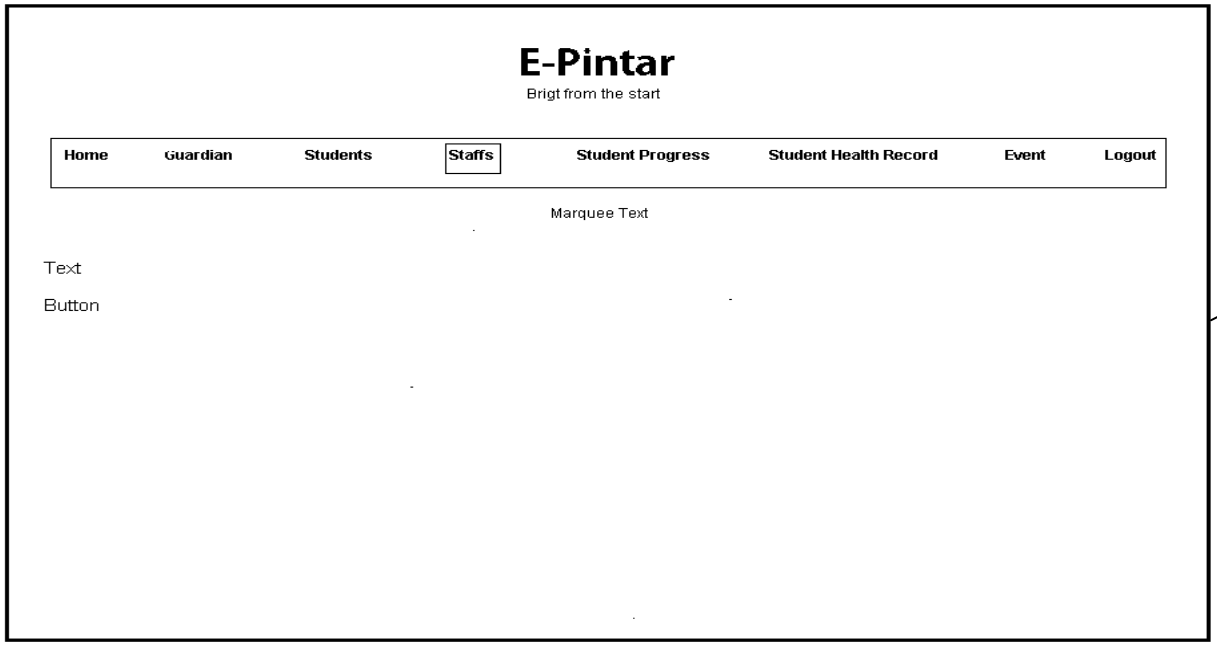

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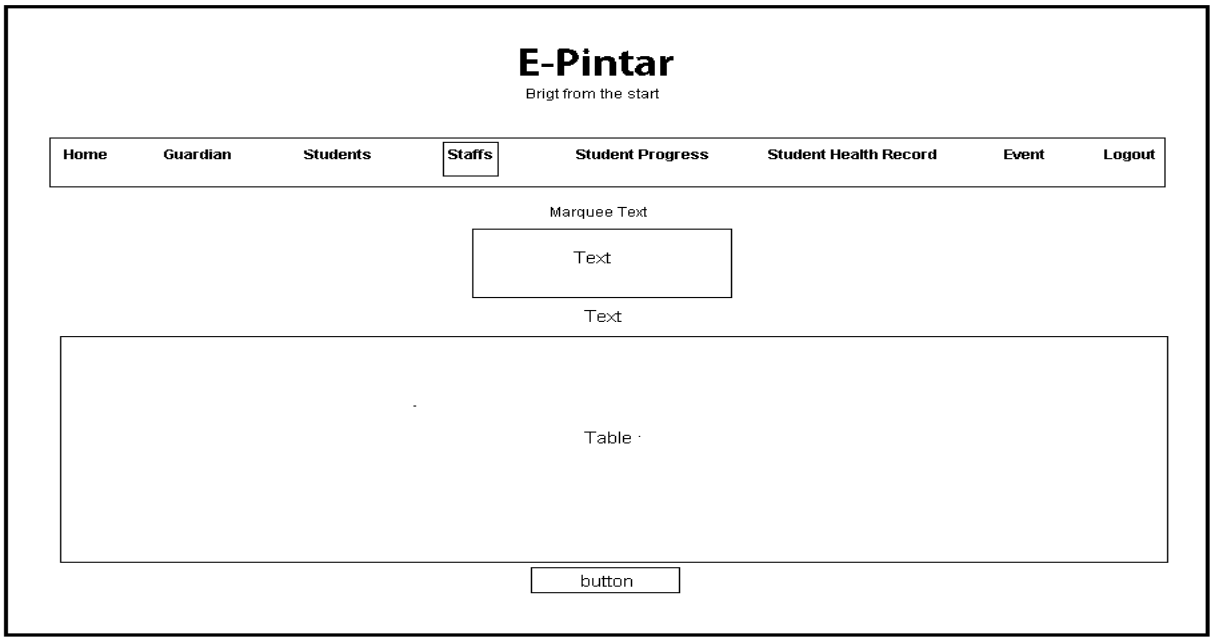

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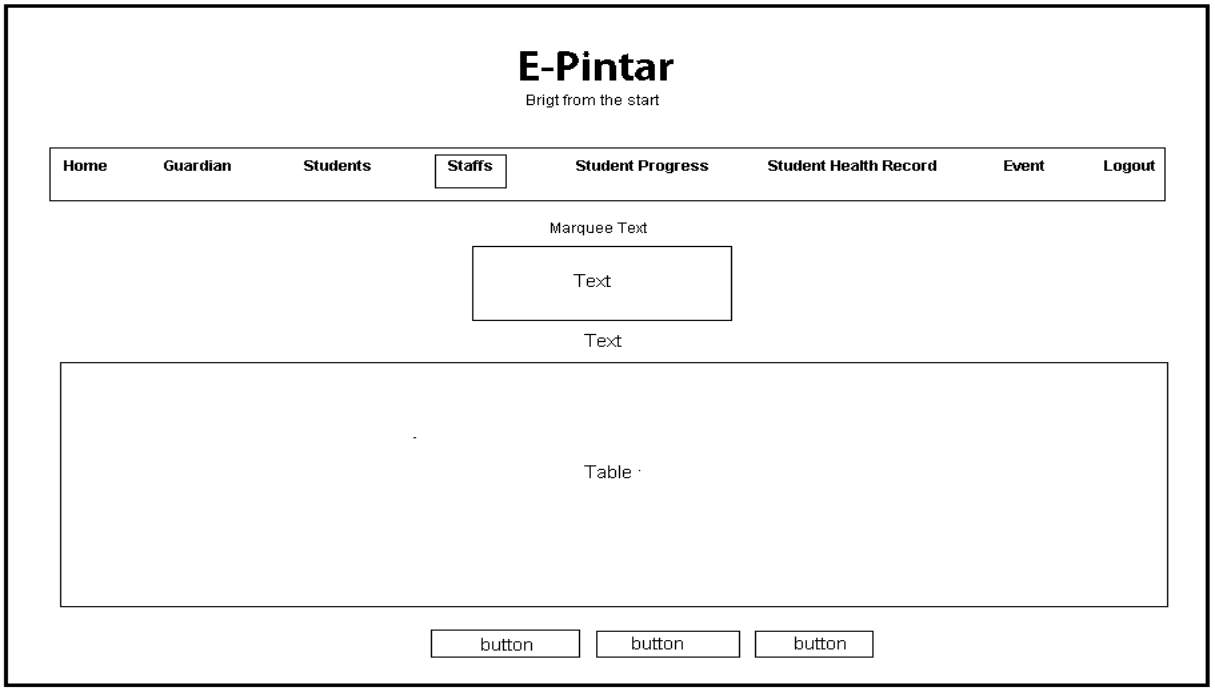

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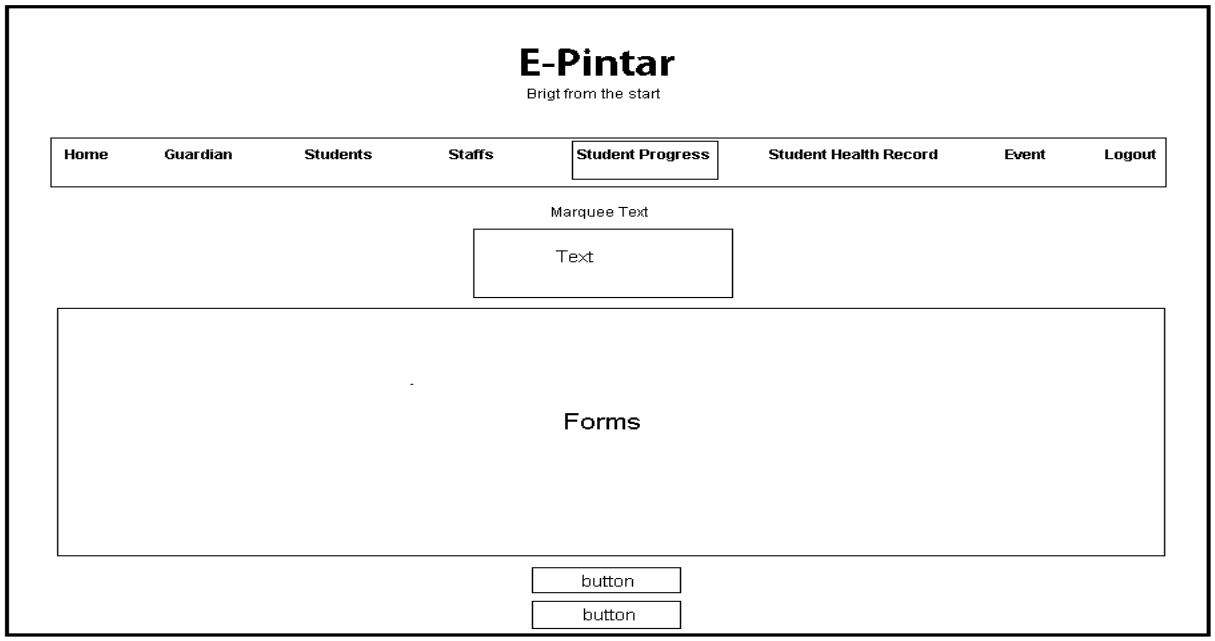

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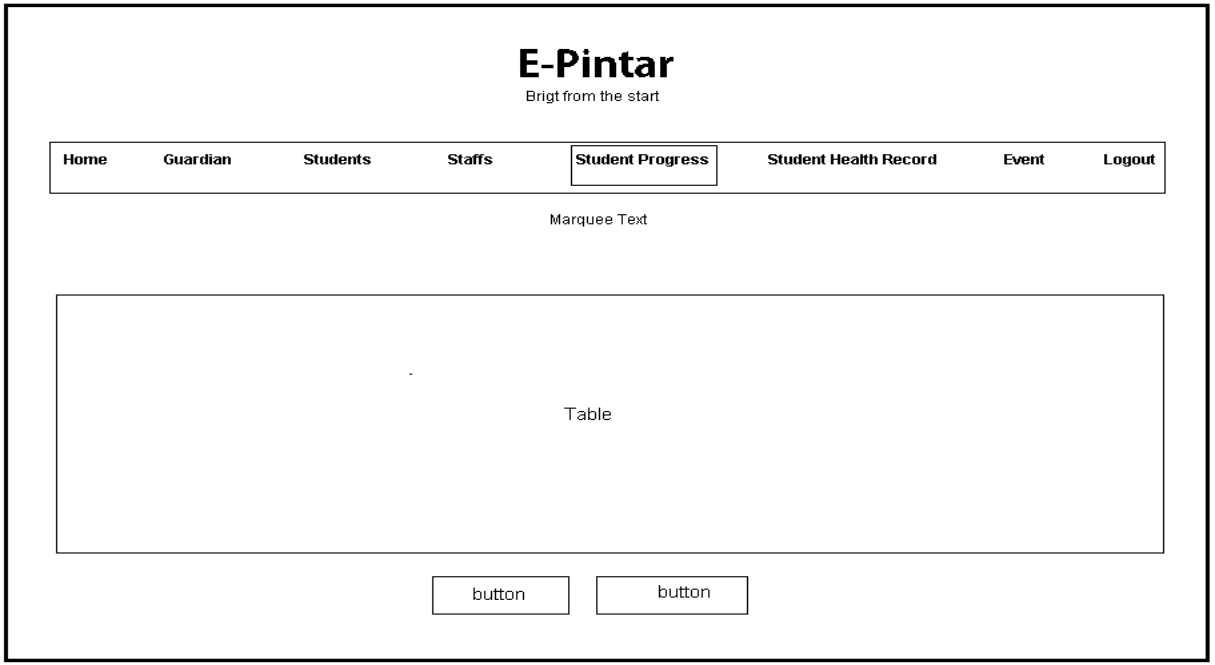

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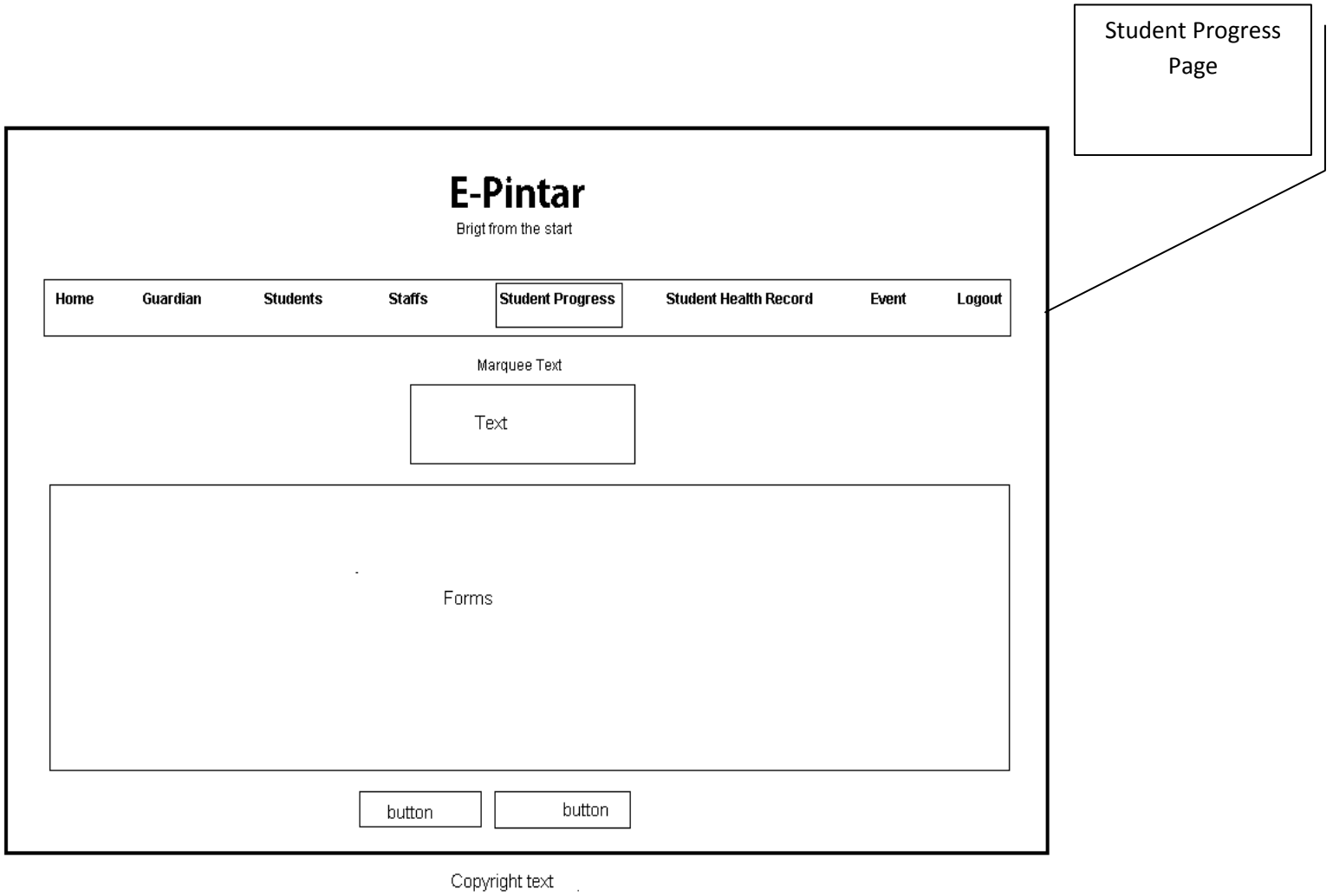
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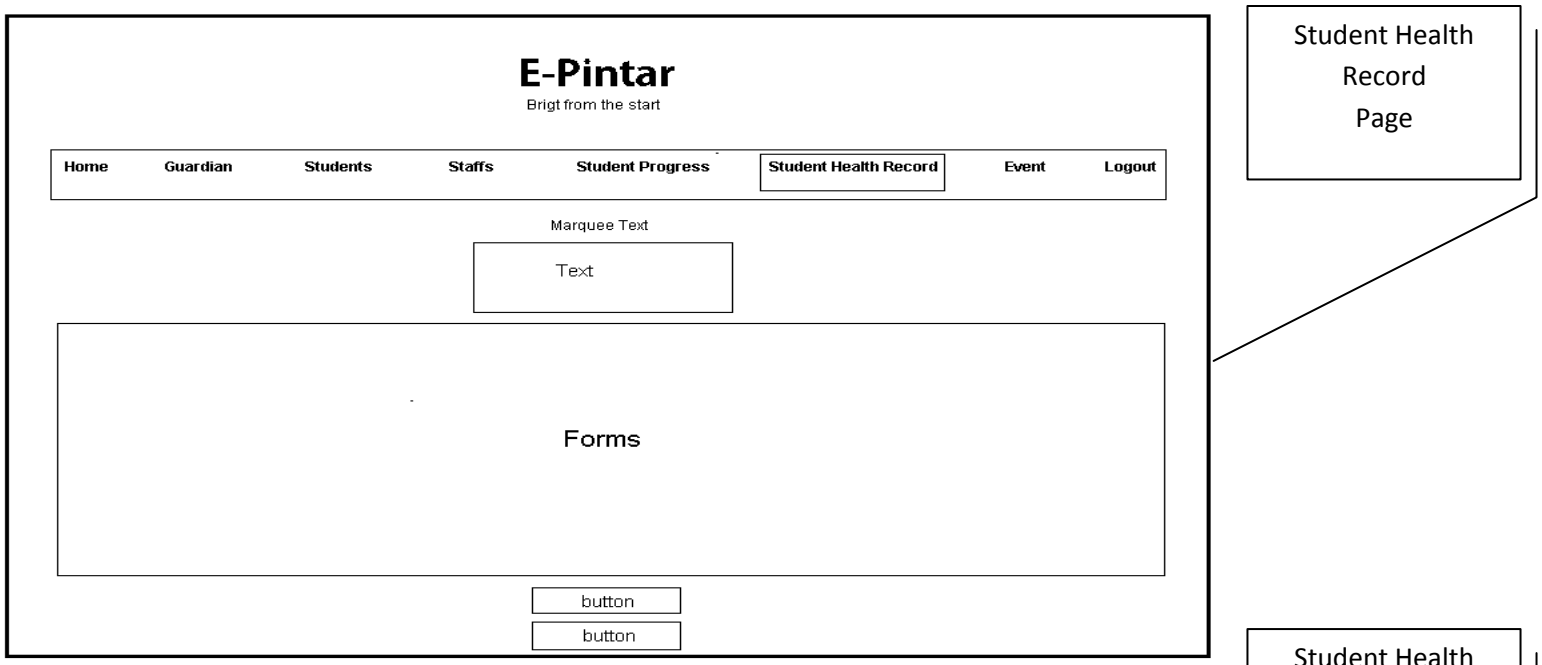
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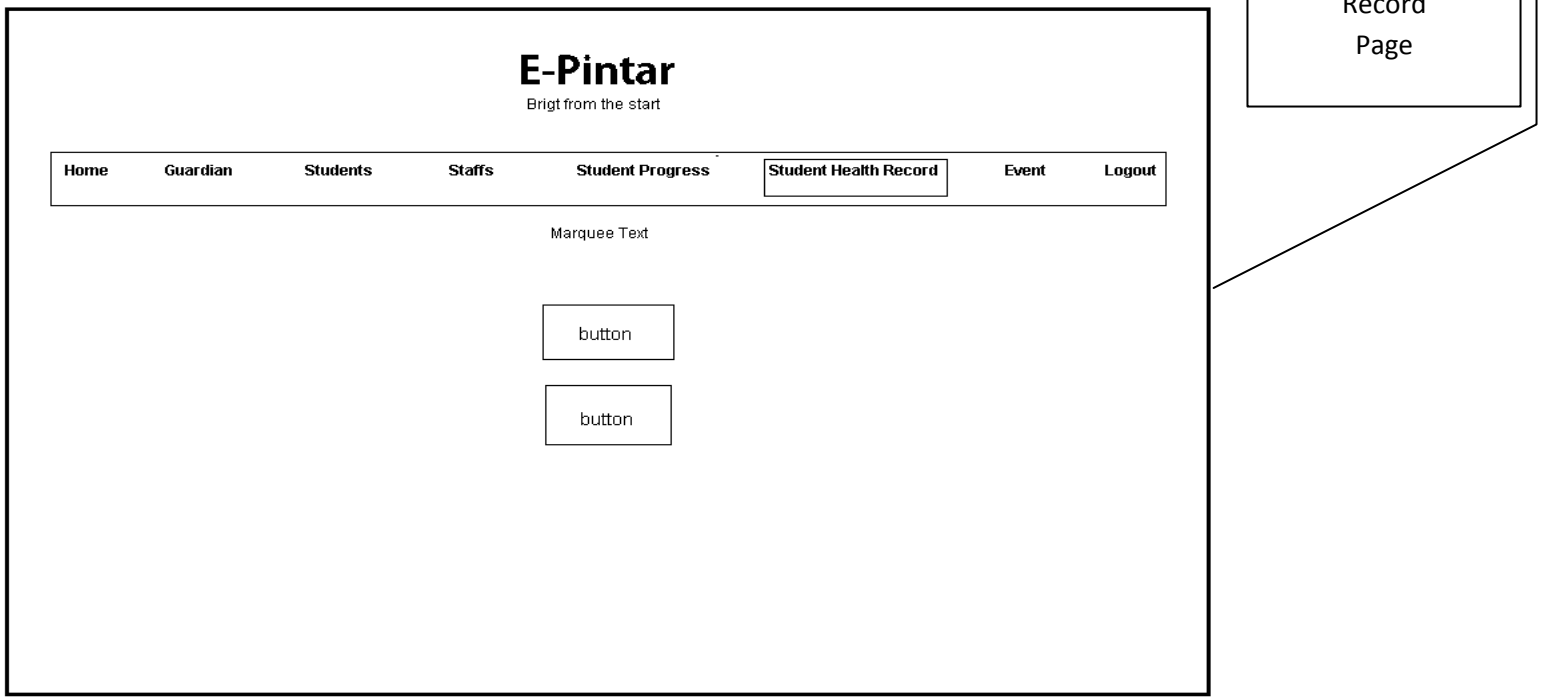
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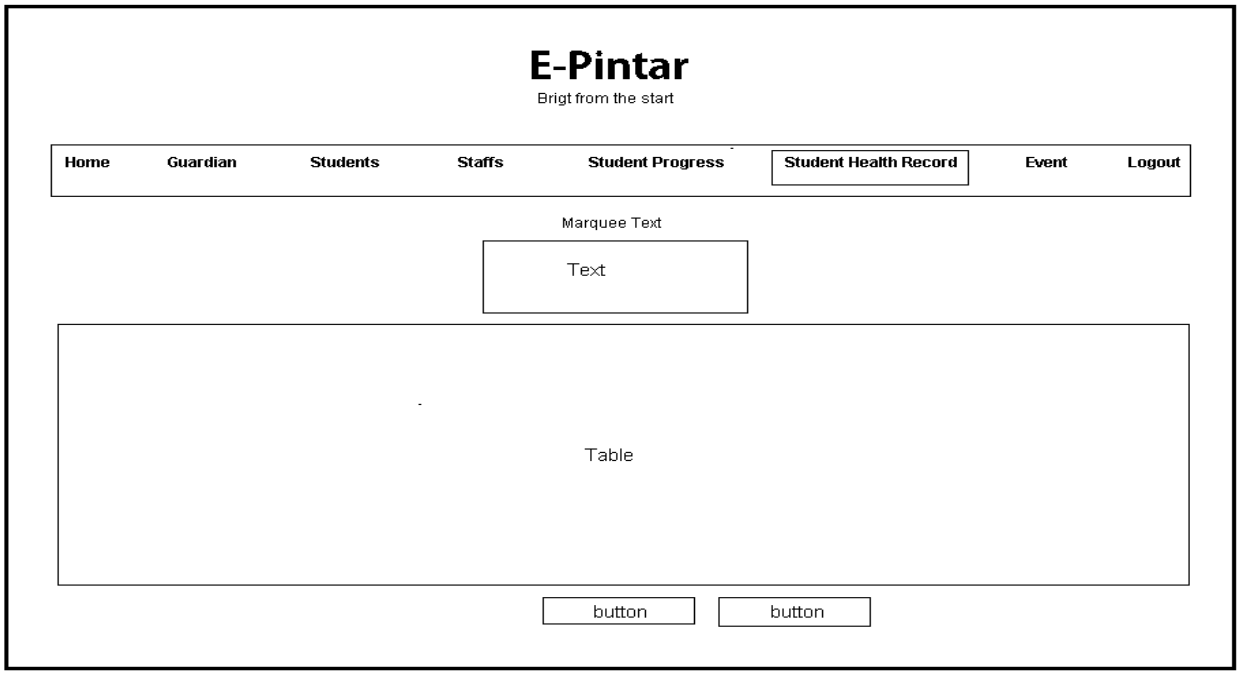

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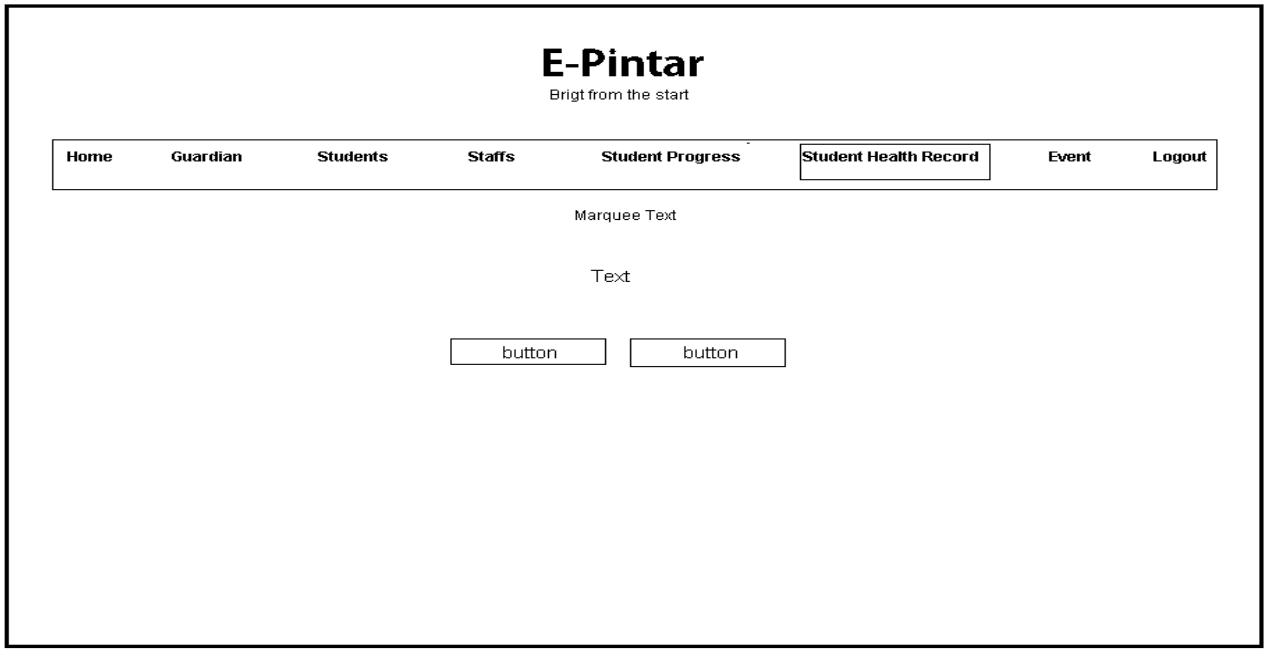

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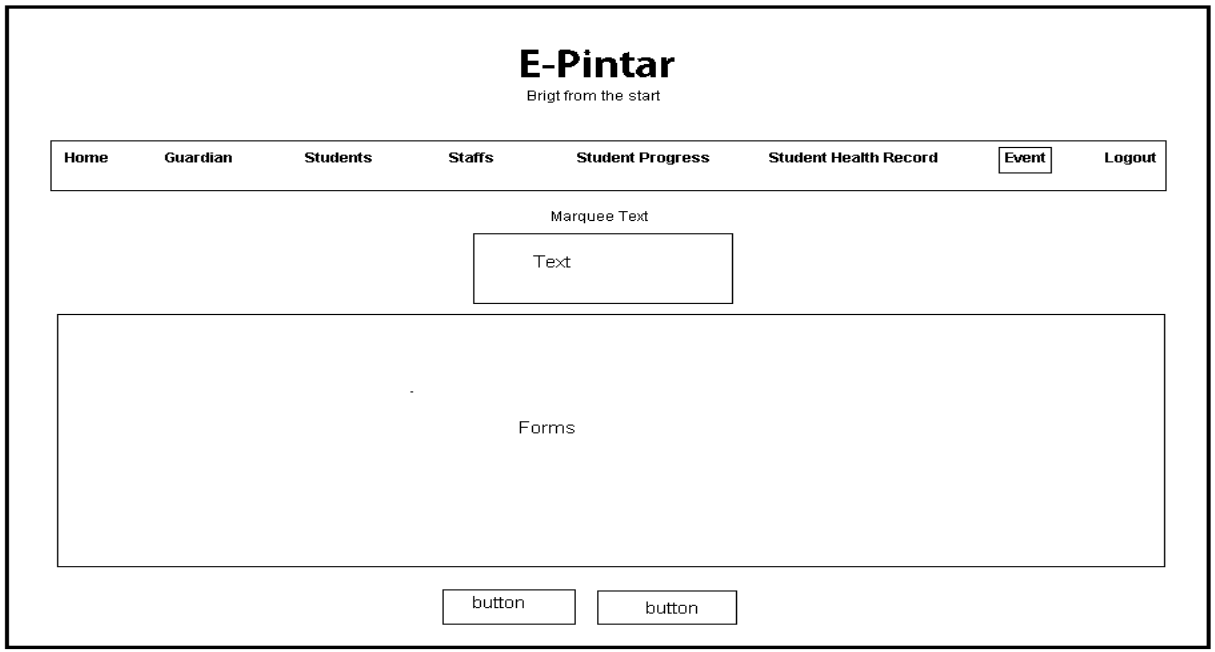

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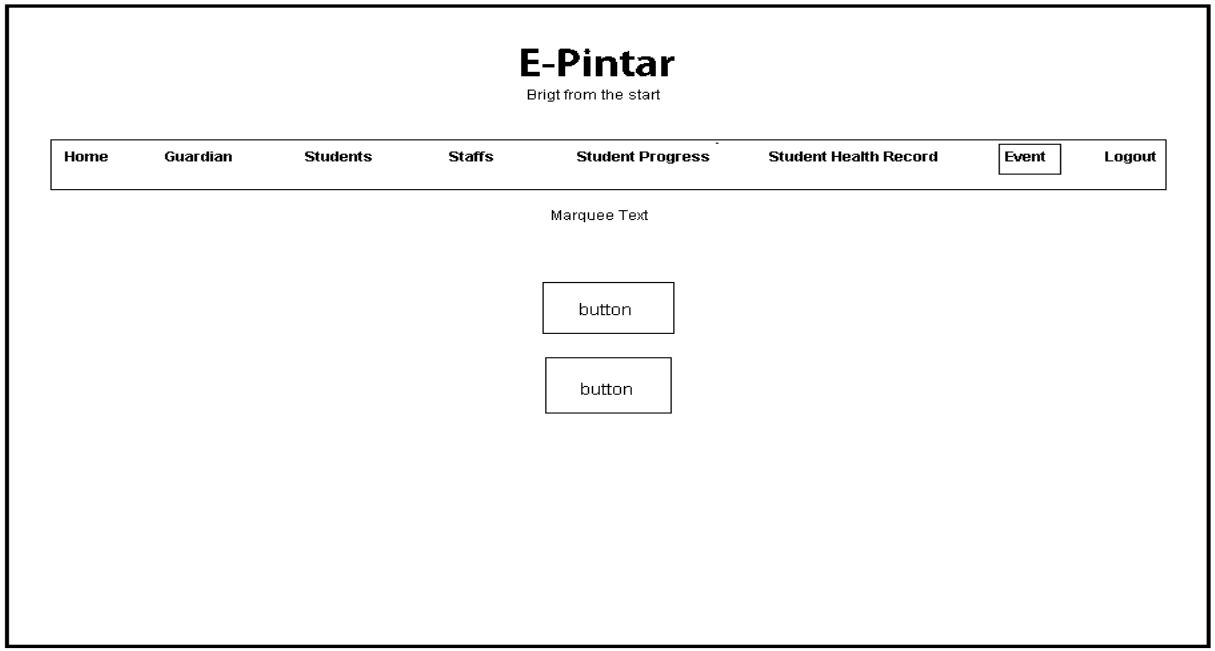

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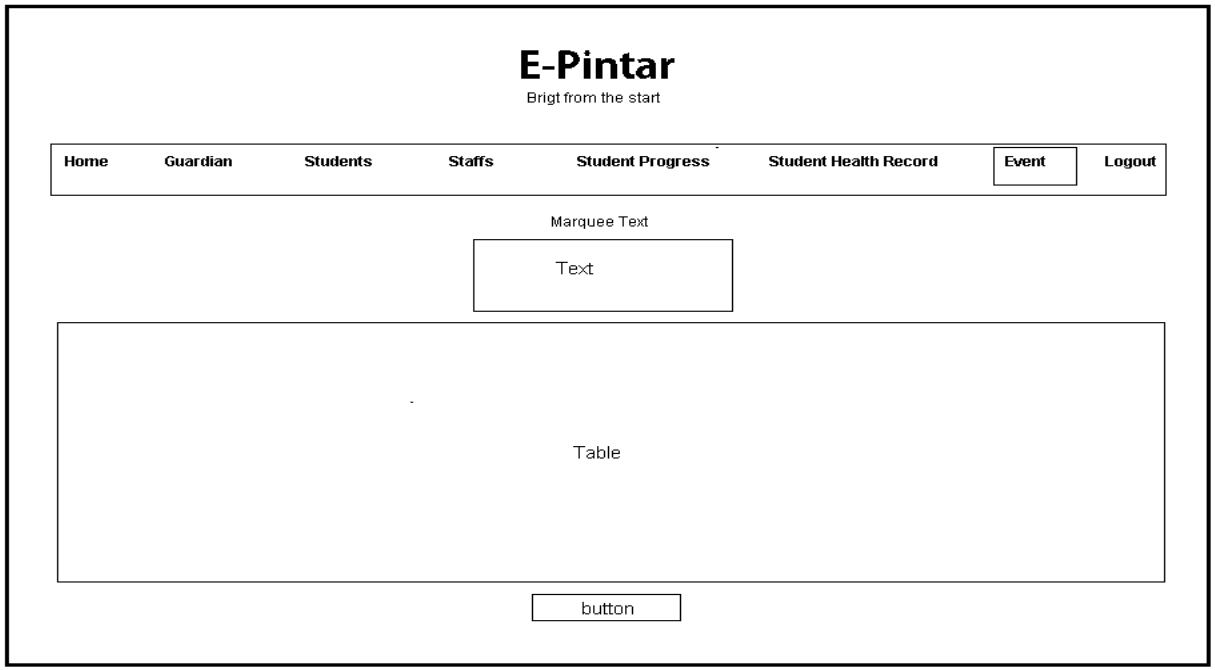

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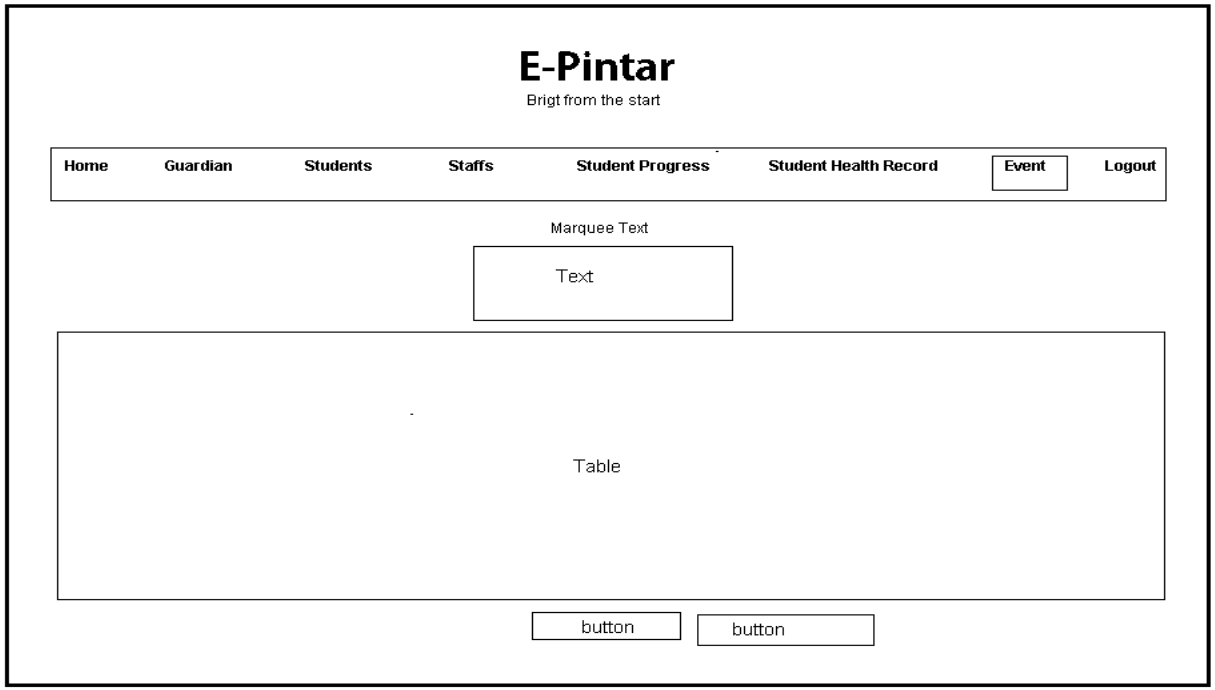

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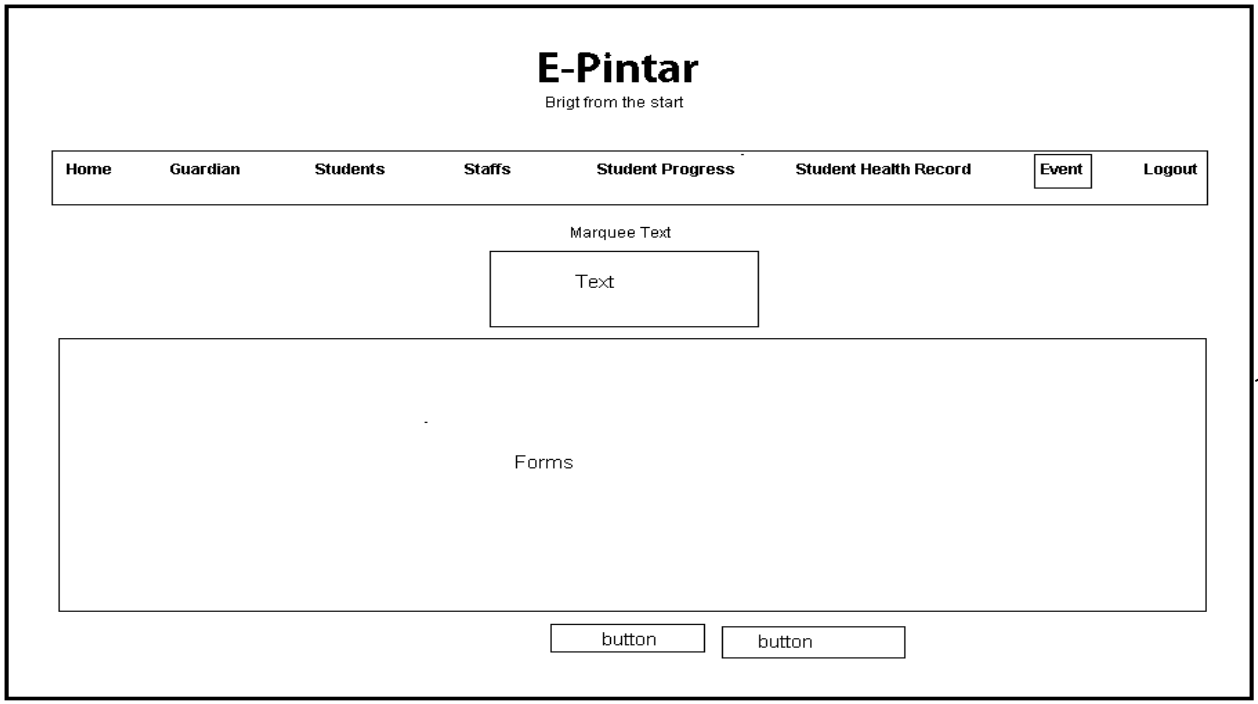

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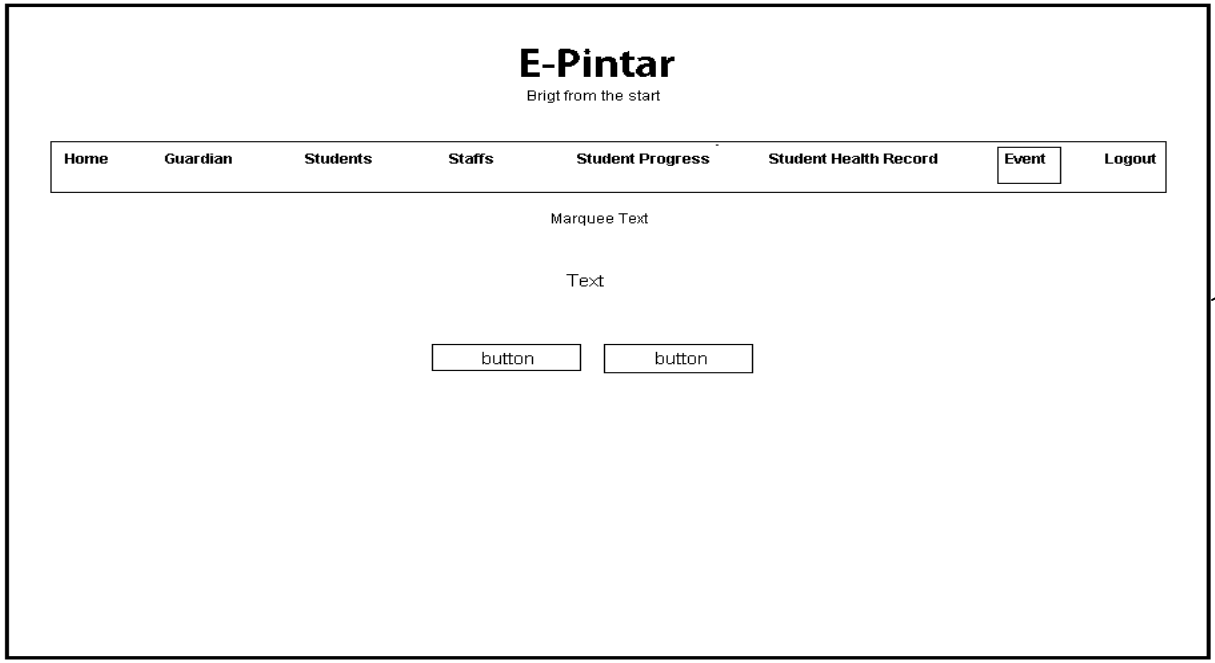

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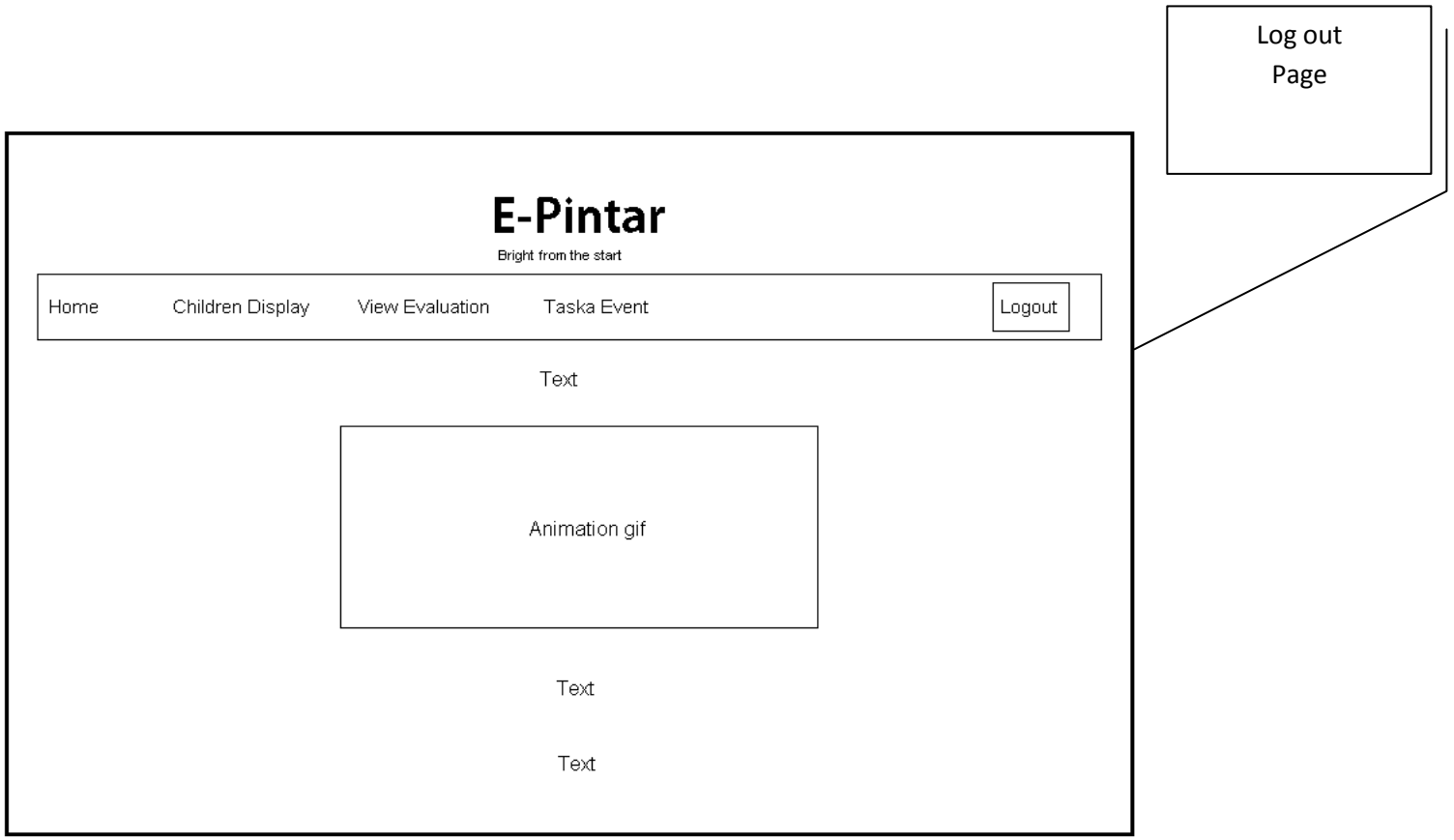
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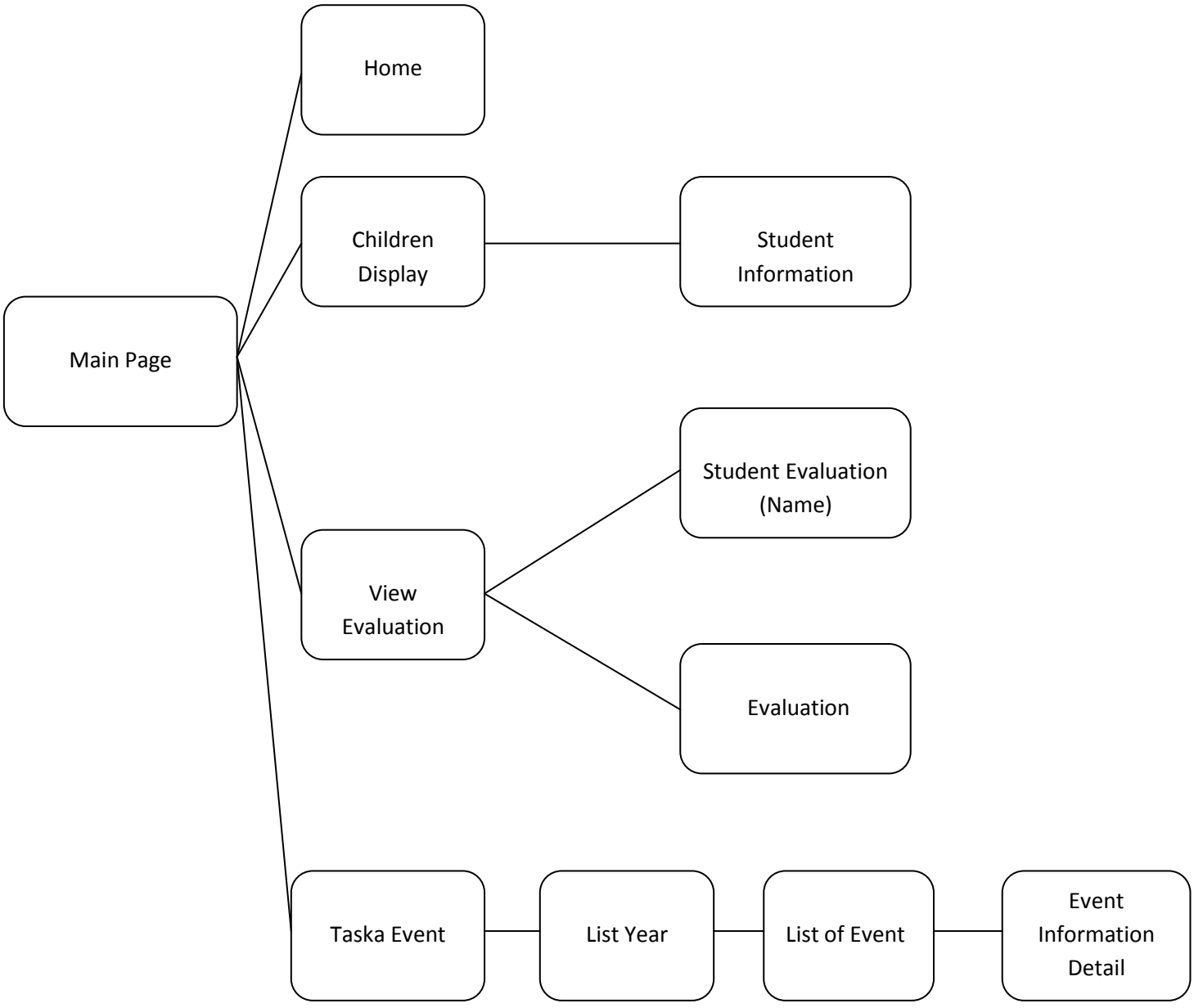
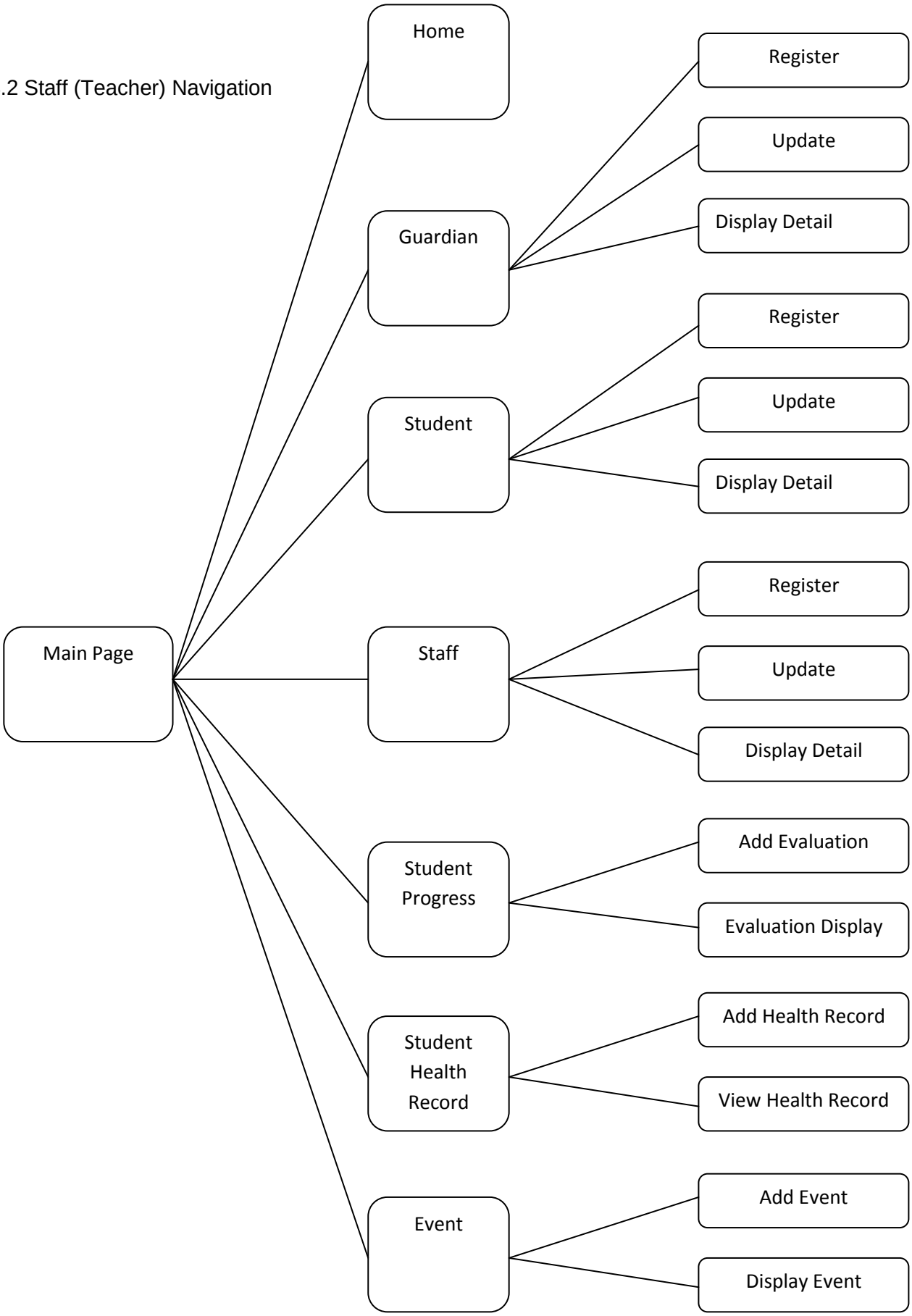
14.0 System Navigation

14.1 Public (Parent) Navigation



14.2 Staff (Teacher) Navigation



15.0 CONCLUSION

In conclusion, I feel that the system that I have developed can be used as the actual system that can be applied to any Taska with few more improvisation made to the system. Also, I feel that the system is mirrored what are being required by the actual in any Taska management. The system that I developed acts as communicator to what I tried to express, as the overall system correspond to the requirement and also accomplished with full-hearted from myself.

The system consisted of few parts which have their own importance in accomplishing the system. Although I did by my own a few helps from friends and lecturers, I still use the PHP and MySQL book together with tutorials in Internet which helped me along the way in completing the system. I tried my best in developing the system due to fact that I'm still going to apply the knowledge in my career in the coming future. Besides that, I really hope that my system will receive full comment and critics so that I can improve myself and as a new knowledge to me as I'm are still new in developing the system. Lastly, I hope the system that I developed could help the Taska staff to operate their business more efficient and systematic.

REFERENCES

(Mohamad Rahimi bin Mohamad Rosman, personal communication, Mei 15, 2017)

(Ghazali bin Othman, personal communication, Mei 20, 2017)