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Research Paper



A web based application on student outcome management system

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Abstract

The main purpose of this specification is to provide a clear view of the result analysis on student performance and as well as faculty and also for the parents. This project aims at developing an a web based application on student result analysis. The faculty assign student overall marks on this particular web application and this overall outcome will be send to all the parents at a time. This system is ideal for adult schools, educational institutions and other training programs. The Scope of the software product developed involves services to the faculty and students in educational institutions for the purpose of time management.It involves a very simple procedure to be done by the student counselor to send his/her result to their parents.Moreover, it will be used to the parents to know the performance of their child.This system is useful to students ,faculty and parents to check the overall result. It gives a general depiction about the understudy execution that a staff can oanapt to post and send and an understudy can need to check their outcome.The structure gives login office to the understudies and faculty.The system checks whether the customers have the normal capacity to select and to see moreover purposes of enthusiasm on the courses available.The structure empowers the understudy and workforce to make the educational execution and store it in the database.

Keywords: *Result Analysis; Faculty; Student; Marks; Counselling Process.*

1. Introduction

The Scope of the software product developed involves services to the faculty and students in educational institutions for the purpose of time management. It involves a very simple procedure to be done by the student counselor to send his/her result to their parents. Moreover, it will be used to the parents to know the performance of their child.This system is useful to students ,faculty and parents to check the overall resultIt gives a general depiction about the understudy execution that a staff can pick to post and send and an understudy can need to check their outcome.The structure gives login office to the understudies and faculty.The system checks whether the customers have the normal capacity to enroll and to see further more purposes of enthusiasm on the courses available.The system empowers the understudy and workforce to make the educational execution and store it in the database.

2. Existing system

In the customary arrangement there existed just the server and the customer. A huge piece of the time the server was just an information base server that can essentially offer information. In this manner lion's offer of the business strategy for thinking i.e., supports and so on must be put on the customers framework. This makes upkeep costly. Such clients are called as 'fat clients'. This also infers every client must be set up with reference to how to use the application and even the security in the correspondence is in like manner the factor to be considered. Since the certified treatment of the information happens on the remote customer the information must be transported over the structure, which requires a secured course of action of the trade technique. The best technique to lead trades is to be controlled by the client and moved frameworks completing the cryptographic standards in the executing the data trade trades. Show day trades are believed to be "un-trusted" similar to security, i.e. they are by and large easy to be hacked. What's more, besides we have to consider the trade the generous measure of data through the framework will give botches while trading. Coincidentally, unstable data trade is to be finished paying little respect to the likelihood that there is nonappearance of a choice. Framework security in the present system is the motivation factor for another structure with bigger sum security models for the information exchange.

3. Proposed system

The proposed structure ought to have the running with highlights. The exchanges should occur in a secured diagram between different customers in the system. It offers adaptability to the client to exchange the information through the structure effectively by compacting the tremendous measure of document. It should in like manner recognize the customer and give the correspondence as demonstrated by the embraced level of security with trade of the record requested and run the required method at the server if basic. In this structure the data will be send through the framework as a sound record. The customer who got the record will do the activities like de embedding, unscrambling, and decompress in their level of chain of significance et cetera

4. Functional requirements

In programming planning, a practical necessity characterizes an element of a product framework or its part. A limit is delineated as a

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course of action of information sources, the lead, and yields (see in like manner programming). Useful necessities may be figurings, specific purposes of intrigue, data control and getting ready and other specific helpfulness that portray what a structure should wrap up. Behavioral necessities depicting each one of the circumstances where the structure uses the valuable requirements are found being utilized cases. All around, reasonable necessities are conveyed in the edge "system ought to do <requirement>". The course of action for realizing down to earth necessities is ordered in the structure design. In necessities building, useful requirements decide particular results of a structure. Utilitarian necessities drive the application outline of a structure. An essentials master produces use cases resulting to get-together and favoring a course of action of handy necessities. The movement of utilitarian essentials is: customer/accomplice request - > feature - > use case - > business run the show. Handy requirements drive the application outline of a system. A necessities analyst makes use cases in the wake of party and affirming a game plan of valuable essentials. Commonsense necessities may be specific purposes of premium, data control and other specific convenience of the endeavor is to give the information to the client.The going with are the Practical essentials of our framework:We are giving one inquiry then we will get viable outcome.The chase of question relies upon genuine point of client.We are having the capable situating philosophy.A novel framework to manhandle the customer's social activities for tweaked picture look, for instance, clarifications and the venture of premium get-togethers.

5. Non functional requirements

In frameworks illustrating and necessities manufacturing, a nonsensible fundamental is a basic that chooses criteria that can be utilized to judge the action of a structure, rather than particular practices. This should be wandered from utilitarian necessities that portray specific lead or limits. The plan for realizing non-pragmatic necessities is organized in the system outline.
The non-utilitarian necessities are "structure may be <requirement>". Non-utilitarian requirements are frequently called qualities of a structure.The accompanying are the Non utilitarian necessities for our framework:
Availability: A structure's "availability" or "uptime" is the measure of time that is operational and open for utilize. It's identified with is the server giving the support of the clients in showing pictures. As our framework will be utilized by a great many clients whenever our framework must be accessible dependably. On the off chance that there are any instances of updations they should be performed in a short interim of time without interfering with the typical administrations made accessible to the clients

6. Efficency

Decide how well the thing uses extraordinary assets: CPU cycles, circle space, memory, transmission limit et cetera. The greater part of the previously mentioned assets can be adequately utilized by performing a large portion of the approvals at customer side and lessening the workload on server by utilizing JSP rather than CGI which is being executed at this point. Flexibility:
If the connection would like to increment or develop the handiness of the thing after it is sent, that ought to be organized from the earliest starting point arrange; it impacts decisions made amidst the format, change, testing and sending of the structure. New modules can be easily planned to our structure without chafing the present modules or altering the intelligible database example of the present applications. Compactness:
Mobility chooses the ease with which the thing can be displayed on every central stage, and the stages on which it is relied on to run.By utilizing proper server renditions discharged for various stages our venture can be effectively worked on any working framework, henceforth can be said very convenient Execution :

The execution limitations determine the planning qualities of the product. Influencing the application to frame filling process through on the web and giving the invigilation list data and examination lobby list is given high need contrasted with different administrations and can be distinguished as the basic part of the framework In our framework presented client particular hunt execution.
The question related hunt is powerful it furnish with in brief period comes about, so the speed of framework is high.
The positioning enhancement conspire accessible for customized picture look.

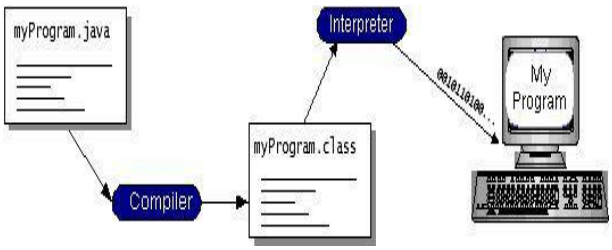
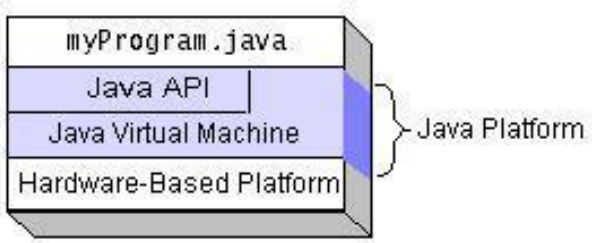


Fig. 1: Java.

You can consider Java byte codes as the machine code rules for the Java Virtual Machine (Java VM). Each Java mediator, paying little personality to whether it's a movement mechanical get together or an Internet program that can run applets, is an execution of the Java VM. Java byte codes enable make "to make once, run wherever" conceivable. You can intertwine your program into byte codes on any stage that has a Java compiler. The byte codes would then have the ability to be keep running on any utilization of the Java VM. That surmises that as long as a PC has a Java VM, an equivalent program written in the Java programming language can keep running on Windows 2000, a Solaris workstation, or on an iMac.



7. System design

The explanation behind the blueprint organize is to plan an answer of the issue showed by the essential chronicle. This stage is the underlying stage in moving from issue space to the course of action region. The layout of a system is perhaps the most fundamental factor impacting the idea of the item, and significantly influences the later stages, particularly testing and support. The yield of this stage is the arrangement record. This record resembles a blue print or plan for the game plan, and is used later in the midst of use, testing and support. The outline movement is regularly partitioned into two separate stage framework plan and nitty gritty plan. Structure design, which is all over similarly called top-level blueprint, hopes to perceive the modules that should be in the system, the particulars of these modules, and how they collaborate with each other to make the pined for results. Around the complete of system design all the critical data structures, record positions, yield outlines, and also the genuine modules in the structure and their subtle elements are picked. An outline procedure is a deliberate way to deal with making a plan by utilization of set of methods and rules. Most procedures concentrate on framework plan. The two fundamental standards utilized as a part of any plan procedure are issue apportioning and reflection. An extensive framework can't be dealt with all in all, thus for plan it is divided into littler frameworks. Deliberation is an idea identified with issue dividing. When dividing is utilized amid plan, the outline action concentrates on one a player in the framework at any given moment. Since the part being planned connects

with different parts of the framework, an unmistakable comprehension of the communication is fundamental for legitimately outlining the part. For this, deliberation is utilized meaningfully.

8. Unified modified language diagrams

8.1. Scenario based modeling

Utilize arranged systems are for the most part used as a piece of programming essential examination and blueprint. Use cases and usage circumstances energize structure comprehension and give a regular tongue to correspondence. This paper shows a circumstance based exhibiting framework and looks at its applications. In this model, circumstances are made logically and they get the system value at various reflection levels including circumstance get-togethers, circumstances,andsub-circumstances.

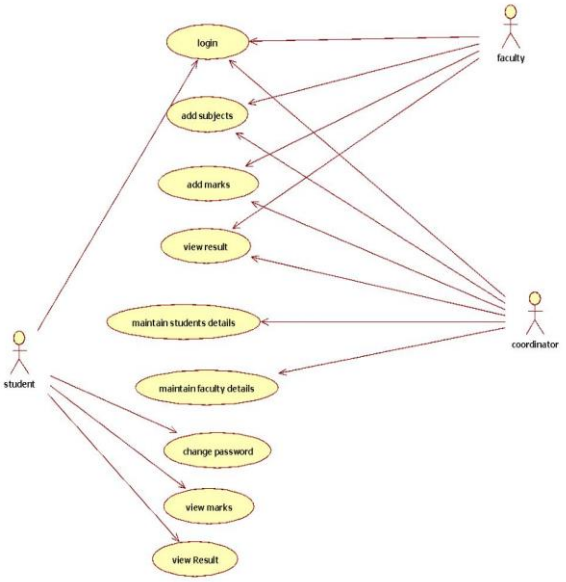


Fig. 2: Use Case Diagram.

8.2. Deployment diagram

Sending diagrams are used to envision the topology of the physical parts of a system where the item fragments are sent.So sending traces are used to depict the static course of action point of view of a structure. Sending outlines contain center points and their associations.

9. Reason

The name Arrangement itself delineates the inspiration driving the diagram. Game plan traces are used for depicting the hardware parts where programming sections are sent. Part diagrams and sending traces are immovably related.Segment outlines are utilized to portray the parts and sending charts indicates how they are sent in equipment.

UML is mostly intended to concentrate on programming antiquities of a framework. In any case, these two outlines are extraordinary charts used to concentrate on programming segments and equipment parts.

So the vast majority of the UML charts are utilized to deal with legitimate segments however arrangement graphs are made to concentrate on equipment topology of a framework. Arrangement charts are utilized by the framework engineers.

The motivation behind organization charts can be port: rayed as Picture gear topology of a system.

How to draw Deployment Diagram?

Plan diagram addresses the sending point of view of a system. It is related to the part layout. Since the portions are passed on using the association outlines. A game plan plot contains center points. Centers are just physical solid products used to send the application.

Plan diagrams are useful for system engineers. A compelling game plan layout is basic since it controls the going with parameters

- Execution
- Versatility
- Practicality
- Compactness

So before drawing an association diagram the going with antiquated rarities should be perceived:

- Hubs
- onnections among hubs

The going with sending diagram is an example to give an idea of the association viewpoint of demand organization structure. Here we have demonstrated center points as:Screen

- Modem
- Reserving server
- Server

The application is believed to be an online application which is passed on in a packed area using server 1, server 2 and server 3. The customer is interfacing with the application using web. The control is spilling out of the holding server to the assembled condition.

So the accompanying arrangement graph has been drawn considering every one of the focuses specified previously: Portray runtime preparing hubs.

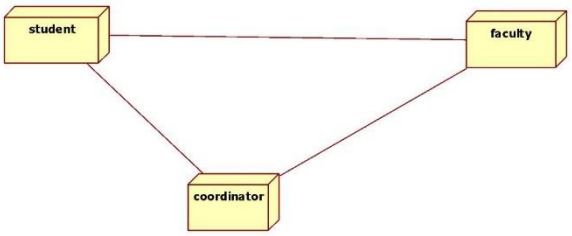


Fig. 3: Class Diagram.

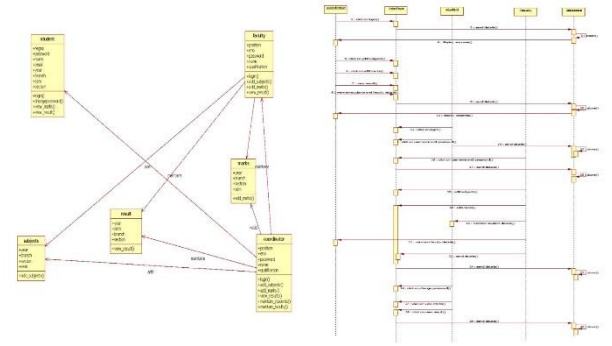


Fig. 4: Sequence Diagram

10. Conclusion

Here we presume that this will be helpful for understudies, staff, guardians. Accordingly it is simple process for understudy result administration framework that is about the outcome investigation of the understudy in regards to his outer and interior denotes This Understudy Data framework undertaking will fill in as a valuable way to deal with information base discourse box to refresh include, propelled look alternatives for the approved individual. It fills in as an accommodating methodology for the clients. It diminishes the time taken by the client to add, update, delete, view and look through the data. In this manner the venture is the easy to use approach and we are extending the project by adding the counselling module.

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