

ONLINE FORUM COMMUNICATION PORTAL FOR E-LEARNING

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Abstract: The objective for this work is to hoist an online response for give educating and learning condition arranged inside a PC interceded correspondence structure. It includes advantage of social affair correspondence and work "spaces". In informative programming circles, it's in like manner frequently called an e-learning structure, a learning organization system, or a virtual learning condition. In the Present framework isn't giving the data about workforce's showing points of interest and online questions. It doesn't have the office to send the inquiries and offer answer to understudies can see the records, documents and so forth. The framework isn't having the workforce to transfer the report records. The proposed framework is an online application and understudies can pick courses, go to addresses, see records and view their addresses courses. Resources can take addresses, transfer records, joins, recordings, declarations, notification, bulletins and transfer addresses in different organizations as in control point introduction and so forth. Director can produce reports, log records, reinforcement/recuperation of information whenever. There can be to talk about different inquiries and to set up recommendations posted both by understudies and resources.

Keywords: e-learning, virtual learning.

1. Introduction

The Online Forum Communication Portal is to propel a more unmistakable count of understudies to frenzy spend into the field of Education. It arranges the upsides of a physical classroom with the settlement of a 'no-physical-bar' virtual coaching condition, less the driving perils and expenses. On the off chance that you're an instructor or understudy, you in all probability understand that Virtual Class Room expected to empower instructors and teachers to make and show courses on the web or use online advancement to help run classes. In informational programming circles, it's moreover every now and again called an e-learning structure, a learning organization system, or a virtual learning condition.

The primary expectation is to give teaching and learning condition arranged inside a PC mediated correspondence system. It contains the benefit of social occasion correspondence and work "spaces". It will customer in the colossal flexibility and innovation in the present learning stage structures, with the perfect blend of synchronous and strange collaboration. It gives a strategy for agreeable learning for the understudies.

The chief objective of this application is to system gives an online response for give educating and learning condition arranged inside a PC mediated correspondence structure. It is used is propel a more noticeable count of understudies to frenzy spend into the field of Education.

2. Existing System

The current framework isn't giving the data about staff's showing points of interest and doesn't give online inquiries [1]. The framework isn't having the office for staff to transfer the reports, video and sound records. The Existing System doesn't give the office to the understudies to see the reports and documents.

Disadvantages:

The accompanying are the disservices of a current framework:

- It is hard to have the office to send the inquiries and offer answer to the understudies.
- It doesn't give the office to the understudies to see the records and documents and so on, [2].

3. Proposed System

The progression of this new system contains online response for give teaching and learning condition arranged inside a PC mediated correspondence structure [3]. This system is propel a more unmistakable count of understudies to try too hard into the field of Education.

The errands associated with the advancement of this venture are:

1. Students can pick courses, go to addresses, see archives, see their addresses courses, and so forth, according to their benefit.
2. Faculties can take addresses, transfer reports, declarations, notification, bulletins and furthermore can transfer addresses and different talks in different configurations as in recordings, control point introduction and so forth.
3. Administrator can produce reports, log records, reinforcement/recuperation of information whenever.

Advantages:

- Registration for numerous courses.
- Easy to deal with all the workforce exercises points of interest.
- Attend addresses either at the booked time or on ask for see address at a later time.
- Shared reports and media library that can help in dynamic learning of an understudy.
- There can be to talk about different inquiries and to set up recommendations posted both by understudies and instructors [4].

4. System Analysis

Making Learning through World Wide Web to propel a more noticeable check of understudies to spend excessively into the field of Education. It organizes the upsides of a physical classroom with the solace of a 'no-physical-bar' virtual learning condition, short the driving dangers and costs [5][6]. It will customer in the colossal flexibility and headway in the present learning stage structures, with the perfect blend of synchronous and non-concurring cooperation. It gives a technique for group learning for the understudies [7].

Consistent framework models and devices are utilized as a part of investigation. Preparing, knowledge and sound judgment are required for accumulation of the data expected to do the investigation.

This application comprises following modules:

1. Chairman
2. Personnel
3. Understudy

Framework investigation is the principal organize as indicated by the System Development Life Cycle display. Attainability investigation of the proposed framework examined over cost, time and operational, specialized possibilities. The term framework necessities that depicts the capacities if the framework through which, with which, on which the item will work. Framework prerequisite portray the abilities of the framework through which the item will work. There are two classes of the framework are useful and client

necessities. The equipment and programming determinations are to indicate the prerequisites of the framework.

5. System Design

Framework configuration is the way toward arranging another framework to supplant or supplement on existing framework. It is an iterative procedure through which necessities are converted into the product amid the stage the examiner works with the client to build up a physical model of the framework.

In the outline step, the component of the examination display gets changed over into an information plan, an engineering outline, an interface outline and a procedural outline. The information configuration changes the data space show made amid examination into the information structure that will be required to actualize programming. The building configuration relies on the relationship among major auxiliary components of the program. The information and control stream graphs give the data require to the interface plan.

Outline Principles

Essential plan rules that empowered the product built to explore the outline procedure are:

- The configuration ought to be traceable to the investigation demonstrate.
- The configuration ought to limit the scholarly separation between the product and the issue, as it exists in reality.
- The configuration should display consistency and uprightness.
- The configuration ought to be organized to oblige changes.

Database Design

Database configuration is an essential stage in planning a framework. Amid this stage care ought to be taken to stay away from excess of data putting away into a database, since it prompts wastage of memory space [8][9]. For this reason a standardization method has been connected here comprehensively to outline the database [10].

User Details

This table gives details regarding which user table can be create multiple columns like userid, firstname, lastname, dob, dor, loginid, password, logintype, forgotpwquestion, forgotpwanswer, photograph, emailid, faxno and middlename columns values are storing the database.

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
USERID	1	1	N	NUMBER		Yes
FIRSTNAME	2		Y	VARCHAR2 (20 Byte)		Yes
LASTNAME	3		Y	VARCHAR2 (20 Byte)		Yes
DOB	4		Y	DATE		Yes
DOR	5		Y	DATE		Yes
LOGINID	6		N	VARCHAR2 (50 Byte)		Yes
PASSWORD	7		Y	VARCHAR2 (30 Byte)		Yes
LOGINTYPE	8		Y	VARCHAR2 (20 Byte)		Yes
FORGOTPWQUESTION	9		Y	VARCHAR2 (70 Byte)		Yes
FORGOTPWANSWER	10		Y	VARCHAR2 (70 Byte)		Yes
PHOTOGRAPH	11		N	BLOB		Yes
EMAILID	12		Y	VARCHAR2 (50 Byte)		Yes
FAXNO	13		Y	VARCHAR2 (20 Byte)		Yes
MIDDLENAME	14		Y	VARCHAR2 (20 Byte)		Yes

Voice Mailbox Master

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
VOICEMAILBOXID	1	1	N	NUMBER		Yes
VOICEMAILBOXTEXT	2		Y	VARCHAR2 (30 Byte)		Yes
STUDENTID	3		Y	NUMBER		Yes
AUDIO	4		Y	BLOB		Yes

Student Master

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
STUDENTID	1	1	N	NUMBER		Yes
STUDENTFIRSTNAME	2		Y	VARCHAR2 (20 Byte)		Yes
STUDENTMIDDLENAME	3		Y	VARCHAR2 (20 Byte)		Yes
STUDENTLASTNAME	4		Y	VARCHAR2 (20 Byte)		Yes
DOB	5		Y	DATE		Yes
DOR	6		Y	DATE		Yes
ADDRESS	7		Y	VARCHAR2 (20 Byte)		Yes
EMAIL	8		Y	VARCHAR2 (30 Byte)		Yes
PHONE	9		Y	VARCHAR2 (20 Byte)		Yes
IMAGE	10		Y	BLOB		Yes

Student Course Master

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
STUDENTID	1		Y	NUMBER		Yes
COURSEID	2		Y	NUMBER		Yes
FACULTYID	3		Y	NUMBER		Yes
COURSEREGID	4	1	N	NUMBER		Yes
REGDATE	5		Y	DATE		Yes
COURSEENDDATE	6		Y	DATE		Yes

Solution

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
QUERYID	1		Y	NUMBER		No
SOLVEDDATE	2		Y	DATE		No
SOLUTION	3		Y	VARCHAR2 (500 Byte)		No

Query

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
QUERYID	1	1	N	NUMBER		No
LOGINID	2		Y	VARCHAR2 (50 Byte)		No
QUERYDATE	3		Y	DATE		No
DESCRIPTION	4		Y	VARCHAR2 (500 Byte)		No
STATUS	5		Y	VARCHAR2 (50 Byte)		No

Phones

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
USERID	1	1	N	NUMBER		Yes
PHONENO	2	2	N	VARCHAR2 (13 Byte)		Yes
PHONETYPE	3	3	N	VARCHAR2 (20 Byte)		Yes

Newsletter Master

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
NEWSLETTERID	1	1	N	NUMBER		Yes
LETTER	2		Y	BLOB		No
NEWSDATE	3		Y	DATE		Yes
FACULTYID	4		Y	NUMBER		Yes

Faculty Online Master

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
ONLINEID	1	1	N	NUMBER		Yes
ONLINEDATEANDTIME	2		Y	DATE		Yes
FACULTYID	3		Y	NUMBER		Yes

Faculty Notices Master

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
NOTICEID	1		Y	NUMBER (10)		Yes
NOTICEDATE	2		Y	DATE		Yes
FACULTYID	3		Y	NUMBER (10)		Yes
NOTICETEXT	4		Y	VARCHAR2 (30 Byte)		Yes
NOTICEFILE	5		Y	BLOB		No

Faculty Master

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
FACULTYID	1	1	N	NUMBER		Yes
FNAME	2		Y	VARCHAR2 (20 Byte)		Yes
DOB	3		Y	DATE		Yes
DOR	4		Y	DATE		Yes
ADDRESS	5		Y	VARCHAR2 (20 Byte)		Yes
EMAIL	6		Y	VARCHAR2 (30 Byte)		Yes
PHONE	7		Y	VARCHAR2 (20 Byte)		Yes
IMAGE	8		Y	BLOB		Yes
SPECIALREMARKS	9		Y	VARCHAR2 (40 Byte)		Yes
EXPERIENCE	10		Y	NUMBER		Yes
USERNAME	11		Y	VARCHAR2 (20 Byte)		Yes
PASSWORD	12		Y	VARCHAR2 (20 Byte)		Yes

Course Master

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
COURSEID	1	1	N	NUMBER		Yes
CNAME	2		Y	VARCHAR2 (20 Byte)		Yes
COURSEDESC	3		Y	VARCHAR2 (30 Byte)		Yes
COURSEDURATION	4		Y	VARCHAR2 (20 Byte)		Yes
COURSECONTENT	5		Y	BLOB		Yes
NOOFLECTURERES	6		Y	NUMBER		Yes

Course Lecturer Master

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
LECTURERID	1	1	N	NUMBER		Yes
LECTURERDATE	2		Y	DATE		Yes
COURSEID	3		Y	NUMBER		Yes
FACULTYID	4		Y	NUMBER		Yes
LECTUREAUDIO	5		Y	BLOB		No
LECTUREVIDEO	6		Y	BLOB		No
LECTURERDURATIONTIME	7		Y	NUMBER		Yes
LECTURERPOWERPOINT	8		Y	BLOB		No
LECTUREDOCUMENTFILE	9		Y	BLOB		No
LECTURERASSIGNMENTFILE	10		Y	BLOB		No

Course Faculty Master

Column Name	ID	Pk	Null?	Data Type	Default	Histogram
COURSEID	1		Y	NUMBER		Yes
FACULTYID	2		Y	NUMBER		Yes
DESCBYFACULTY	3		Y	VARCHAR2 (30 Byte)		Yes

The objective of configuration process is to give a blue print to execution, testing and upkeep exercises. The bound together showing vernacular allows the item expert to express and examination exhibit using the showing documentation that is regulated by a game plan of syntactic and practical tenets.

6. Conclusion

The "Virtual Tutoring framework" was effectively composed and is tried for precision and quality. In the midst of this errand we have accomplished each one of the objectives and this endeavour tends to the issues of the affiliation. The made will be used as a piece of looking for, recouping and creating information for the concerned sales.

Objectives Achieved

- Reduced section work.
- Easy recovery of data
- Reduced blunders because of human mediation
- User inviting screens to enter the information
- Portable and adaptable for encourage improvement
- Web empowered.

References

- [1] M.R.M. Veeramani, N. Radhika, "A Study on Educational Games Application Model in E-Learning Cloud System", IEEE's Information Communication and Embedded Systems (ICICES) 2014 International Conference held on 27-28, Feb. 2014, ISBN 978-1-4799-3835-3.
- [2] Xavier Thayalan, Alice Shanthi, "Qualitative assessment of social presence in online forums", IEEE Conferences, IEEE Colloquium on Humanities, Science and Engineering, 2011.
- [3] Patti Shank, "eLearning Guild Research: Reconsidering Bloom's taxonomy", *Learning Solutions Magazine*, February 2013.
- [4] Zhuhan Jiang, Xiling Guo, "A miniature e-learning portal of full teaching and learning capacity", IEEE Conferences, 2nd International Conference on Consumer Electronics, Communications and Networks (CECNet), 2012.
- [5] "E-learning quality: Aspects and criteria for evaluation of e-learning in higher education", Report 2008:11R, Swedish National Agency for Higher Education, 2008.
- [6] S. Kakoty, and S.K Sarma. "Expert System Applications in E-learning Environment: Analysis on Current Trends and Future Prospects" International Journal of Internet Computing (IJIC), Vol. 1, 90-93, 2011.
- [7] Sangeeta Kakoty, "E-learning as a Research Area: An Analytical Approach", International Journal of Advanced Computer Science and Applications, Vol. 2, No. 9, 2011.
- [8] Pankaj Jalote, "An Integrated approach to software Engineering.
- [9] "E-learning for Innovation: Executive Summary", Helios yearly report 2007.
- [10] ASTD State of the Industry Report. Retrieved December 1, 2010
- [11] Microsoft gateway learning
- [12] <http://www.Tutorvista.com>
- [13] http://www.isodynamic.com/.../pdf/IsoDynamic_elearning_white_paper.pdf.... PHP 6 by wrox
- [14] http://www.skillsoft.com/infocenter/documents/1007_eLearning.pdf
- [15] <http://www.e-learningconsulting.com>
- [16] <http://www.athenstech.edu/elearning/Requirements>.
- [17] <https://www.worldwidelearn.com/elearning-essentials/elearning-benefits.htm>
- [18] S.V. Manikanthan, T. Padmapriya "An enhanced distributed evolved node-b architecture in 5G tele-communications network" International Journal of Engineering & Technology (UAE), Vol 7 Issues No (2.8) (2018) 248-254.March2018
- [19] M. Rajesh, Manikanthan, "ANNOYED REALM OUTLOOK TAXONOMY USING TWIN TRANSFER LEARNING", International Journal of Pure and Applied Mathematics, ISSN NO:1314-3395, Vol-116, No. 21, Oct 2017.
- [20] S.V.Manikanthan, Padmapriya.T, "RECENT TRENDS IN M2M COMMUNICATIONS IN 4G NETWORKS AND EVOLUTION TOWARDS 5G", International Journal of Pure and Applied Mathematics, Vol. 115, No. 8, pp: 623-630, 2017.

