**ABSTRACT**

The Project is an Online Education website for all types of learning CBT Creations, the Project provides creation of CBT with pages, audio and video facilities. The project is used for the students aspiring to be high class professional. Constants personalization of candidate learning process and frequently interacting with the online expert give e-Learn subscriber an edged over other students. We help our clients to educate their workforce and increase their productivity and performance, through low cost creating CBT’s using online packages, which provides e-Learning. Our approach to create Online CBT’s for any subject with a series of steps. We provide a login for users who wants to create a CBT, with click and drag options the users can create required CBT’S providing education and examination.the project is an Online Education website for creation of CBT to provide learning of a course for students aspiring to be high class professional. Constants personalization of candidate learning process and frequently interacting with the online expert give e-Learn subscriber an edged over other students. We help our clients to educate their workforce and increase their productivity and performance, through low cost e-Learning at these platforms and programs. Our approach to e-Learning is delivered by unifying on-line learning, web-based training and automatic CBT creations.

**Introduction**

At Course Portal, our courses range from Basic Computing, Professional IT, Personal Development and Business Skills, designed to provide the training, skills and accreditations to give you an advantage for personal and professional success.

When students enter this site, he feels that he was threaded into an intellectual environment. He acquires the knowledge of General Information, Academics, Seminars, and even some live Projects. And the special feature that is the Expert System is also included especially for the students who are at professional courses to select their project satisfactorily and successfully.

Here at Online Course Portal the students can directly plan and create online learning activities. This will include not only learning how to develop online units or lessons using traditional content, but also an exploration and instruction on the use of the vast array of resources available via our site.

**Online Course portal** is your key to harnessing the power of the internet. This unique and revolutionary model allows you to **learn various courses online**. Since time immemorial, mankind has acquired knowledge and has been able to put it to constructive use, to earn one's livelihood and money. **Web site provides** an opportunity that will not only quench your thirst for knowledge and education, but will bring you face to face with the vast powerhouse of information and opportunity, the Internet, besides presenting you an opportunity to earn and achieve financial freedom. ***Online Course Portal invites you to be a part of this noble cause, to educate and learn.***

**Purpose**

In this system, our main purpose is to reduce the user interaction with different applications. The main goals are as follows:

* Providing a online education website for students
* Providing learning of courses through online.
* Providing writing exams online

**Scope**

Online Course Portal is an Online Education package for all the learning of the students aspiring to be high class professional. Constants personalization of candidate learning process and frequently interacting with the online expert give Online Course portal subscriber an edged over other students.

Online Course Portal worked on two modes: Online and Offline. In online mode, user for first time should be connected to internet and if they had valid username and password they are able to download study material, concern tests containing different pattern of questions and Online Course Portal tools get stored at local hard disk make utilized of package. Report of his test conduct is get updated to elearn server directly. If user in offline mode (had already material downloaded) read material and conduct test, result get stored at local hard disc. When again user get connect to Internet then that stored data get uploaded to Portal server. In turn Online portal server get generate reports based on his information stored at Expert System, part from this portal server have updated study material, question banks.

**Need for System**

**Existing System**

Online Course Portal is an Online Education package for all the learning of the students aspiring to be high class professional. Constants personalization of candidate learning process and frequently interacting with the online expert give Online Course portal subscriber an edged over other students.

Online Course Portal worked on two modes: Online and Offline. In online mode, user for first time should be connected to internet and if they had valid username and password they are able to download study material, concern tests containing different pattern of questions and Online Course Portal tools get stored at local hard disk make utilized of package. Report of his test conduct is get updated to elearn server directly. If user in offline mode (had already material downloaded) read material and conduct test, result get stored at local hard disc. When again user get connect to Internet then that stored data get uploaded to Portal server. In turn Online portal server get generate reports based on his information stored at Expert System, part from this portal server have updated study material, question banks.

**Disadvantages**

In this system, our main aim is to reduce the user interaction with different applications. The main goals are as follows:

* Providing a online education website for students
* Providing learning of courses through online.
* Providing writing exams online
* Provide appropriate messages indicating errors or instructions
* Basic operations are available like adding, modifying etc
* Navigation simple
* Similar pattern of design in all screens
* Accept various parameters incase of reports
* Presentable format
* No complexities.

**Proposed System**

The proposed product has two components:

Course Portal Server: This is a central repository where deployment of software and course portal study data is done. All clients present in the intranet contact the server to download the latest updates in software and study material etc.

Client: Client consists of a front-end to enable students to study and test themselves on various topics.

**Advantages**

* Provide appropriate messages indicating errors or instructions
* Basic operations are available like adding, modifying etc
* Navigation simple
* Similar pattern of design in all screens
* Accept various parameters incase of reports
* Presentable format
* No complexities

### Objectives of the Proposed System

1. To generate the quick reports
2. To make accuracy and efficient calculations
3. To provide proper information briefly
4. To provide data security
5. To provide huge maintenance of records
6. Flexibility of transactions can be completed in time

After understanding the existing system and understanding the need for developing a new system different people involved in the related activities have been consulted. The data needed for the study has been collected from company records.

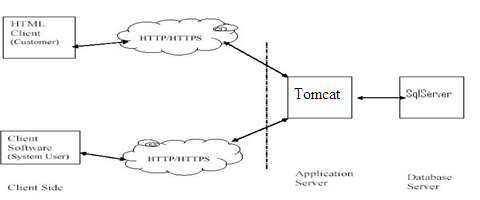
The computerization of this system would avoid the wrong interpretation and bad calculation of data .The system help the user to see any documents, source code, tasks, activities, team information with details at the click of a button. The record data is maintained and backed up such a way that data is not loss. The speed of the system could also increased.

**Software Requirement Analysis and Specification**

**Productive Perspective**

This system provides an easy way of storing all the business details at a centralized location (database) with proper security. This system also provides an easy way of user management, setting different access roles to users and changing the passwords of the users. This application helps in storing the user for performing his activities very fastly and effectively. By using this application there should be no difficulty for the company people to maintain information in online database. This system also provides a various types of reports to users. It can also generate different kinds of reports based on different requirements of the company to know current status and helps in taking the future decision.

The web pages (XHTML) are present to provide the user interface on customer client side. Communication between customer and server is provided through HTTP/HTTPS protocols.The Client Software is to provide the user interface on system user clientside and for this TCP/IP protocols are used.

**Fig 2.1:** Client /Server Model

**Product Function**

This above functionality can be classified into of 3 modules. They are as follows:

## Administrator

## Student

## Banker

* Faculty

ADMINISTRATOR MODULE

It has been already said that the project will be under the control of the Supervisor. He plays the role of a protégé and even as an organizer. He supervises the member’s list and does any cancellations if required, makes up data entries and test settings.

To be concise, he maintains the list of the users who have account information in it, if so; he can perform any changes in his account information. If not, he will be provided with new account information to register as a member in it and this is done with the knowledge of JSP. The Membership Registration form is designed using HTML.

This is completely designed using the knowledge of Artificial Intelligence. For the intellectual students who are in professional courses, they can select their project easily by taking attempt an adaptive test conducted by our Expert System. Here the questions will be related to their academic subjects and the project is decided based on their skills. And the list of courses will be displayed and thus it becomes malleable to the students to select a course.

**Expert system is knowledge-based system, which get stored students reports generated from test for further processing. As many reports generated more efficient conclusion able to drawn. Expert system work for major aspects: 1.Identifies the interest of the student whether like visual or audio way of questioning. 2. Learning speed, capacity based on his/her performance. Hence it is called as performance analyzer which help the student learn better and faster by customizing the learning process by his/her preferred learning style, this enhances the student understanding of the student and leverage the student performance.**

ADMINISTRATOR ROLES

* Administrator maintains entire web site
* Adds new courses, enables and disable courses
* Uploads notes, courses and set permissions to various users
* Set examinations papers
* Conducts Examinations
* Mailing Communications
* Reports

USER MODULE

* User Joins on Self Interest directly
* Selection of Courses
* Payment through e-banking/DD/Fee varies
* On Payment of DD/e-banking login/password are created
* Learn course, write exam and get certificate
* Mailing Communications

FACULTY MODULE

* Joins on Self Interest directly
* Clarify students doubts
* Mailing Communications

**User Constraints**

These are the requirements that are not directly related to the functionality of the system. These should be considered as mandatory when the system is developed. The following Constraints were arrived at the system:

* The system should be available and the Users can use the system from their respective locations.
* For gaining entry into the system the users should be registered and should be able use login & passwords for gaining access to the system.
* The system should be able to accept more number of users.
* The system should be easy to understand and organized in a structured way.
* There should be no limitation about the hardware platform that is to be used to run the system.

**Specific Requirements**

**Software Interface**

Operating system **:** Windows 2000/NT/XP

Database **:** SQL

Programming language **:** Java

Technology **:** JDK

Web server **:**  Tomcat

**Hardware Interface**

Processor **:** Pentium Core Duo

Ram **: 2** GB

Hard disk **:** Minimum 160 GB

**Non Functional Requirements**

**Performance Requirements**

No external factor influences performance as the application is standalone. Higher memory is recommended for faster execution. However when executed from intranet or internet good bandwidth, less congestion and shortest route to reach the server would enhance the performance.

**USER INTERFACES:**

* The User Interface is a GUI developed using Swings

**SOFTWARE INTERFACE***:*

* The main processing is done in J2SE using Swings and io and util api, and the programming environment java is used.

Modules

PROJECT MODULES

**MODULES OF THE PROJECT**

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* Mailing Communications
* Reports

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* Payment through e-banking/DD/Fee varies
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* Learn course, write exam and get certificate
* Mailing Communications

**BANKER MODULE**

* Receives Payment of users and accepts to the admin account
* Received Payments are sent to admin for giving acceptance to the course.
* Provides Detailed Report of all payments made by students.

**FACULTY MODULE**

* Joins on Self Interest directly
* Clarify students doubts
* Mailing Communications



Fig. 4.1.Class Diagram for Online e-Learn

**Fig. 4.1. Class Diagram for Online e-Learn**

**4.2.2. USE CASE DIAGRAMS**

**Administrator**

**login check**

**creation of**

**bank id**

**creation of**

**courses**

**set**

**papers**

**mail**

**Conduct**

**Examinations**

**reports**

**cbts**

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**Fig. 4.2. Use Case Diagram for Administrator**

**Learner**

**login heck**

**register**

**selection**

**of course**

**view**

**cbt**

**write**

**exams**

**download**

**notes**

**reports**

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**Fig. 4.3. Use Case Diagram for Learner**

**Banker**

**login check**

**fees**

**process**

**reports**

**mail**

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**Fig. 4.4. Use Case Diagram for Banker**

**4.2.3. SEQUENCE DIAGRAMS**



**Fig. 4.5. Sequence Diagram for administrator**



**Fig. 4.6.** **Sequence Diagram for User**

**4.2.4. DATA FLOW DIAGRAMS:**

Data drive business activities. They can trigger events and processed to provide information useful to personnel. System analysis recognizes the central role of business data in the organization. The following that shows the flow of data through business processes, which is the purpose of data flow analysis, tells us a great deal about how organization objectives are accomplished.

Data flow analysis studies the use of data in each activity. It documents these details in the **Data Flow Diagrams**.

A data flow diagram is a logical model of a system. The model does not depend on hardware, software, and data structures of the organization. There is no physical implication in a data flow diagram because the diagram is a graphic picture of the logical system, it trends to be easy for every non-technical user to understand and thus serves as an excellent communication tool. Finally a data flow diagram is a good starting point for system design.

To construct a data flow diagram it uses basic symbols. They are given below.

**DFD NOTATIONS**

#### Define source and destination data.

#### Shows path of the data flow.

**To represent a process that transforms or modifies**

**the Data.**

**To represent an attribute.**

#### Data Store



**Fig. 4.7.** **Data Flow Diagram for User and Administration**

**User**

**Login**

HomePage

as

User

**Browser**

*User ID, Password*

*User Verification*

**Login Info (Users)**

*Login as User*

*Login as Administrator*

*Supervisor*

*as a special user*

*Requested Page*

HomePage

as

Supervisor

**Fig. 4.8.** **Interaction Diagram for Sport User Login Process**

*Login*

**HomePage**

**as**

**User**

**About**

**project**

**Learn**

**Examiner**

**payment**

**Change**

**Password**

**General**

Academics

**Seminars**

Projects

**Users Info**

**eBanking**

**Learn Info**

**Users Info**

**Ques Info**

*Request for About eLearn*

*Request from Learn*

*Subject*

*Request*

*for Expert sys.*

*Old Password,*

*New Password*

*Password*

*Verification*

*Password*

*Updation*

*To the Browser*

*To the Browser*

*To the Banker*

*To the Browser*

*To the Browser*

*Selection of Learn Info*

*Division of Info.*

*Random Question Paper*

*generation*

### Fig. 4.9. Level –1 DFD for Online e-Learn

**Fig. 4.10. Level – 2 DFD for Online e-Learn**

**HomePage**

**as**

**Supervisor**

**Addin-**

**Learn**

**Addin-**

**Ques**

**Feedback**

**Ques List**

**Members**

**List**

**Users Info**

**Ques Info**

**FeedBack Info.**

*Login*

*Request for adding Learn Info*

*Request for adding Questions*

*Req. for Feedbacks*

*Req. for Ques. list*

*To the Browser*

*To the Browser*

*To the Browser*

*To the Browser*

*To the Browser*

**Fig. 4.11. Level – 2 DFD for e-Learn (for Administrator)**

*Login*

**HomePage**

**as**

**User**

**About**

**project**

**Learn**

**Examiner**

**payment**

**Change**

**Password**

**General**

Academics

**Seminars**

Projects

**Users Info**

**eBanking**

**Learn Info**

**Users Info**

**Ques Info**

*Request for About eLearn*

*Request from Learn*

*Subject*

*Request*

*for Expert sys.*

*Old Password,*

*New Password*

*Password*

*Verification*

*Password*

*Updation*

*To the Browser*

*To the Browser*

*To the Banker*

*To the Browser*

*To the Browser*

*Selection of Learn Info*

*Division of Info.*

*Random Question Paper*

*generation*

### Fig. 4.12. Figure: Level – 2 DFD for Online e-Learn ( for Users )

**HomePage**

**as**

**Supervisor**

**Addin-**

**Learn**

**Addin-**

**Ques**

**Feedback**

**Ques List**

**Members**

**List**

**Users Info**

**Ques Info**

**FeedBack Info.**

*Login*

*Request for adding Learn Info*

*Request for adding Questions*

*Req. for Feedbacks*

*Req. for Ques. list*

*To the Browser*

*To the Browser*

*To the Browser*

*To the Browser*

*To the Browser*



**Fig. 4.13. Automated Course Registration**



**4.3. MODULES OF THE PROJECT**

This above functionality can be classified into of 3 modules. They are as follows:

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FACULTY MODULE

* Joins on Self Interest directly
* Clarify students doubts
* Mailing Communications

4.4. DATA DICTIONARY

Data dictionaries are integral component of structured analysis, since data flow diagrams by themselves do not fully describe the subject of the investigation. The data dictionary provides additional information about the system. A data dictionary is a catalog – repository provides additional information about the system.

A data dictionary is a catalog – repository of the elements in a system. In a data dictionary we will find a list of all elements composing the data flowing through the system. The major elements are data flows, data stores and process. The data dictionary stores details and descriptions of those elements.

Why is a data dictionary important?

Analysis use data dictionaries for five important reasons:

* To manage the details of the large system
* To communicate a common meaning for all system elements
* To document the features of the system

**TABLE STRUCTURES**

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| **TABLE: USERS**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | USERID | VARCHAR(20) | PRIMARY KEY | | PASSWORD | VARCHAR(20) | NOT NULL | | TYPEOFUSER | VARCHAR(10) | NOT NULL |   **TABLE: COURSE**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | COURSEID | VARCHAR(20) | PRIMARY KEY | | COURSE | VARCHAR(30) |  | | DURATION | NUMBER(5) |  | | FEES | NUMBER(5) |  | | STATUS | VARCHAR(1) |  |   **TABLE: COURSEDETAILS**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | COURSEID | VARCHAR(20) |  | | DOL | DATE |  | | CHAPTER | VARCHAR(30) |  | | FILENAME | VARCHAR(100) |  |   **TABLE: COURSEHTML**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | COURSEID | VARCHAR(20) |  | | DOL | DATE |  | | CHAPTER | VARCHAR(30) |  | | TOPIC | VARCHAR(30) |  | | NOTES | VARCHAR(4000) |  |   **TABLE: ADMIN\_INBOX**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | MID | NUMBER | PRIMARY KEY | | USER\_NAME | VARCHAR2(30) |  | | MSG\_FROM | VARCHAR2(50) |  | | MSG\_SUBJECT | VARCHAR2(50) |  | | MSG\_DATA | VARCHAR2(1000) |  | | MSG\_DATE | DATE |  |   **TABLE: USER\_INBOX**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | MID | NUMBER | PRIMARY KEY | | USER\_NAME | VARCHAR2(30) |  | | MSG\_FROM | VARCHAR2(50) |  | | MSG\_SUBJECT | VARCHAR2(50) |  | | MSG\_DATA | VARCHAR2(500) |  | | MSG\_DATE | DATE |  |   **TABLE: MATCHQUES**   |  |  |  | | --- | --- | --- | | **f** | **DATA TYPE & SIZE** | **CONSTRAINT** | | QNO | NUMBER(10) | PRIMARY KEY | | COURSE | VARCHAR(20) |  | | QUESTION | VARCHAR(150) |  | | OPTION1 | VARCHAR(100) |  | | OPTION2 | VARCHAR(100) |  | | OPTION3 | VARCHAR(100) |  | | OPTION4 | VARCHAR(100) |  | | ANSWER | VARCHAR(100) |  | | IMAGE | VARCHAR(50) |  |   **TABLE: FILLQUES**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | QNO | NUMBER(10) | PRIMARY KEY | | COURSE | VARCHAR(20) |  | | QUESTION | VARCHAR(150) |  | | ANSWER | VARCHAR(100) |  | | IMAGE | VARCHAR(50) |  |   **TABLE: REGISTRATION**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | USERID | VARCHAR(20) | PRIMARY KEY | | PASSWORD | VARCHAR(20) |  | | FNAME | VARCHAR(20) |  | | LNAME | VARCHAR(20) |  | | DOB | DATE |  | | DOJ | DATE |  | | SEX | CHAR(1) |  | | EDUCATION | VARCHAR(20) |  | | OCCUPATION | VARCHAR(40) |  | | ADDR | VARCHAR(20) |  | | STATE | VARCHAR(20) |  | | CITY | VARCHAR(20) |  | | COUNTRY | VARCHAR(20) |  | | ZIP | VARCHAR(10) |  | | PHONE | NUMBER(8) |  | | TELEPHONE | NUMBER(10) |  | | EMAIL | VARCHAR(30) |  | | JOINUSER | NUMBER(20) |  | | CNO | NUMBER(10) |  | | STATUS | CHAR(1) |  |   **TABLE: COURSEJOIN**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | CNO | NUMBER(10) |  | | USERID | VARCHAR(20) |  | | COURSE | VARCHAR(20) |  | | FEES | NUMBER(10) |  | | STATUS | CHAR(1) |  |   **TABLE: DDPAYMENT**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | CNO | NUMBER(10) |  | | USERID | VARCHAR(20) |  | | DOD | DATE |  | | BANK | VARCHAR(20) |  | | DDNO | VARCHAR(20) |  | | AMT | NUMBER(10) |  | | STATUS | VARCHAR(1) |  |   **TABLE: EXAMPER**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | CNO | NUMBER(10) |  | | DOE | DATE |  | | COURSE | VARCHAR(20) |  | | STATUS | VARCHAR(1) |  | | RESULT | VARCHAR(10) |  | | MARKS | NUMBER(10) |  |   **TABLE: SETEXAM**   |  |  |  | | --- | --- | --- | | **COLUMN NAME** | **DATA TYPE & SIZE** | **CONSTRAINT** | | EXTYPE | NUMBER(1) |  | |  |  |