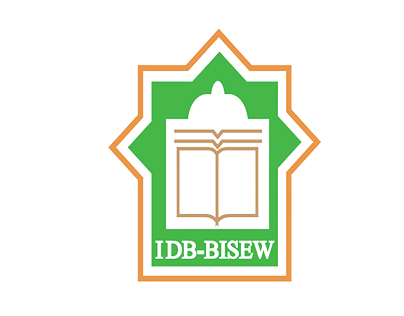
## Islamic Development Bank-Bangladesh Islamic Solidarity and Educational Wakf

## (IsDB-BISEW)

# **IT Scholarship Programme**



**Project Name: E-learning System**

## Submitted To:

* Syed Zahidul Hassan

Consultant

IDB-BISEW IT Scholarship

* Umme Aimun Nesa

Technical Trainer (.Net)

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**Submitted By:**

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**Case Study**

**Of**

**E-Learning System**

**Introduction:**

* Education is usually perceived as the method whereby we have students in a classroom receiving lessons from the teacher but with the help the information technology through the internet, learning can now be achieved without necessarily having a teacher right in front of a student.
* E-learning is one of the tools that emerged from information technology and has been integrated in many Universities education programs, shifting from the traditional way of education to electronic environment in which a student can access and make use of information anywhere and at any convenient time.

**Objectives:**

The objectives of this project are as follows:

* To design an e-learning system with various multimedia features.
* To a create a database for easy retrieval, storage and maintenance of students records as well as sharing of data between users.
* To make the training progress easier for the trainer as well.

**Module of the e-learning system:**

* **TEACHERS ACTIVITIES**
* **STUDENT ACTIVITIES**
* **COURSER PLANNING**
* **SEMESTER PLANNING**
* **FEEDBACK COLLECT**
* **REPORTS MANAGEMENT**

**Functionality:**

* **Create DATABASE for store data**
* **Create ALL TABLE in database**
* **Collect data and INSERT ALL record of table**
* **JOIN query along with GROUP query to find out semester and course wise all reports (using HAVING CLAUSE in this query).**
* **Create CLUSTER AND NON-CLUSTER INDEX on student table.**
* **Getting some column on the base table for Create VIEW TABLE for show the users.**
* **Create STORE PROCEDURE (insert, update, delete) into teachers table Using---**
* **with parameter**
* **out parameter**
* **create TRIGGER into teacher table**
* **instance of trigger**
* **after trigger**
* **UDF (user define function) create UDF on semester and report table for using another operation**
* **Table value function**
* **Scalar value function**
* **Multi statement function**
* **Create # LOCAL TEMPORARY TABLE and ## GLOBAL TEMPORARY TABLE**
* **SUBQUERY to find out semester and course wise all report list from joining table.**
* **USING CAST /CONVERT for change datatype**
* **CASE**
* **MERGE report table for insert new record and existing record update (course add/delete on course table)**
* **CTE for getting total age of students from student table.**
* **INSERT UPDATE DELETE on table record.**

**Challenges:**

The challenging task was to permute 15 courses in a span of four months. This E-learning courses of information was in the form of Student Information & Teacher Information and requires detailed storyboarding before it gets developed.

**The proposed system:**

System

**Benefits of e-learning:**

* Effective at producing good outcomes
* Everywhere Learning – not limited by place or time
* Fairer – it extends learning to more people
* Supports individual learning styles and needs
* Promotes collaboration
* It is fee-effective and saves time
* Online classroom environment
* Easy implementation

**Project Management:**

We have successfully addressed our client needs and pain points by conducting weekly meetings. With well managed team tracking sheet and project progress map, we could manage to complete the project successfully in 4 months.

**About Our Client**:

* Our Client is one of the leading RTO training provider in Bangladesh. The company is of highest caliber in providing quality samples of assessment tools with their fantastic team to simplify complex learning strategies.
* Recognized as a leader in largest catalogue of RTO training resources Bangladesh-wide, our client offers realistic workplace environment for learners to stay innovative, agile, and engaged towards their L&T programs.

**Aim:**

The aim of the project is to develop an e-learning system that will improvise on the manual, large class learning techniques used in teaching Computer Science.

**Problem statement:**

* Students inability to grasp key ideas and concepts.
* Too much focus on presentation, little time left for practice.
* Lack of motivational push.