FYLFO is a helping center for IELTS preparation for candidates going to abroad. FYLFO is a web application made using Visual Studio 2013 in framework ASP.NET and for database record SQL 2012 server used. There is one Dashboard on the home page. The dashboard is a screen presents information in blocks. There are four sections used to calculate the records, data which are coming from the database. Four sections are: Total Teachers Registrations, Total Student Registrations, Total Outgoing Transactions, and Total Incoming Transactions have registered in the present day.

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Automatic English Language Preparation

FLYFOT
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Jaswinder Singh
Gaurav Dhiman

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FLYFOT
Imprint
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Automatic English Language Preparation

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1.0 ABSTRACT:

FYLFOT is a helping center for IELTS preparation for candidates going to abroad. FYLFOT is a web application made using Visual Studio 2013 in framework ASP.NET and for database record SQL 2012 server used. There is one Dashboard on the home page. Dashboard is a screen presents information in blocks.

Contents which are presents in dashboard are:

**Master:** It shows the information about timing of lecture, course type, date of batch, fees of course, room capacity, teacher time table, mock test registration.

**Students:** It presents the information of registration of students, attendance of students.

**Teachers:** It displays about registration of teachers, teachers time table, and send message to teacher.

**Working Tasks:** It places you where you can calculate the marks of mock test, collect the payment, due payment, mock test registration.

**Update Panel:** Here admin extend fee due date, fee amount update, and update student details, update teacher details, shift class to new teacher, update attendance.

**Receipts:** Here you view fee receipt, mock test receipt.

**Reports:** Here you visualize course wise report, mock test report, time table, student performance report, teacher report.

There are four sections used for calculate the records, data which are coming from database. Four sections are: Total Teachers Registrations, Total Student Registrations, Total Outgoing Transactions, and Total Incoming Transactions have registered in present day.
2.1 Introduction: FYLFOT is basically an IELTS institute where students prepare their IELTS for going abroad. There are two courses available: one is IELTS and the second one is Speaking course. There are mainly three types of user’s login and registered in the institute.

![Login Page of Admin, Teacher, and User](image)

*<Figure 1 Login Page of Admin, Teacher and User>*

- **Administrator:** Administrator login and checks all the records registered on present day about total students registrations, total teachers registration, outgoing and incoming transactions.
- **Teacher:** Teacher login and checks their schedule of class according to particular course i.e. IELTS and speaking course.
- **User:** User login and registered himself/herself for particular course i.e. IELTS and speaking and checks the fees and also checks schedule of the course.
There is a dashboard on home page. Dashboard is actually a screen which display’s the information in blocks.

2.2 Dashboard contains the following blocks are:

![Dashboard Screen](image)

< Figure 2 Dashboard Screen >

2.2.1 Master: This block contains tasks which are handled by administrator panel. Tasks are about set the timing of lectures, make fee structure, type of course, batch of students, assign the rooms, make time table of teacher, set the permissions also. Details about all these blocks are following:

- **Time:** Administrator can add lecture time here and also option of edit and delete is also applicable here.
- **Course:** In this screen administrator can create particular course i.e. IELTS or speaking.
- **Course Type:** Here admin creates what type of course is i.e. general or academics.
- **Batch:** In batch block admin makes the different batches according to different course i.e. IELTS as well as speaking.
- **Fee:** It shows the fee structure according to course.
- **Level:** Assigned an unique level to each and every teacher.
Room: It displays the information about assigned room and shows the capacity of particular room.

Teacher Time Table: Here admin makes the final time table for every teacher which shows the name of teacher, room number, unique level, course and time.

Mock Test: Admin prepared mock test for students who want to give the mock test they choose date of examination and fee of mock test.

Permission: In the permission block admin gives the permissions which are shown to teacher and student.

2.2.2 Students: In this main block admin visualize registrations of total students, their personal detail and also checks the attendance of any particular student. Descriptions of sub blocks are following:

Student Registration: In this sub block admin create the registration form of every new student. Fill all the personal details of student.

Attendance: There are two types of attendance regular and adjustment with other teacher. Teacher fills this form it gives the information about student is present, absent or on leave today and also remarks given by teacher to particular student.

2.2.3 Teacher: This is main block and displays the information about teacher registration, teacher time table, message to teacher from administrator. Define all sub block are following:

Teacher Registration: Administrator do the registration of teachers with full detail like name, father name, DOB, gender, address, qualification, Experience, DOJ, contact information etc.

Teacher Time Table: Teacher can only see the time table schedule here.

Teacher Message: Administrator can send message to particular teacher or the entire teachers same time.

2.2.4 Working Tasks: This main block contains the information of getting mock test marks by particular student, View the payment paid by student, due fee date, permission slips and mock test registration by student.

Mock Test Marks: Administrator calculates mock test marks and submits and save it in database.

Payments: Information of total collect payment from student.
> **Fee Due Collection:** Total due fee, due date of payment of student of different course.

> **Permission Slip:** Administrator allows the student to sit in the class after submit fee of particular course.

> **Mock Test Registration:** Here administration checks the mock test registration with registration number.

2.2.5 **Update panel:** In this main block administrator update the due date of Students, fee amount update, update student details, update teacher detail etc. Describe sub blocks are following:

- **Extend Fee Due Date:** Administrator can extend due date of fee of student.
- **User Fee Due Date:** Administrator can update the due date of fee of student.
- **Fee amount Date:** Administrator can change the amount of fee.
- **Mock Registration Update:** Administrator can update the date of mock test.
- **Update Student Detail:** If required administrator can update the detail of student.
- **Update Teacher Detail:** If required administrator can update the detail of teacher.
- **Update Attendance:** Administrator can update the attendance of student.

2.2.6 **Receipts:** In this main block administrator generates receipts of fee, mock test and permission slip. Describe sub blocks are following:

- **Fee Receipts:** Administrator generate the fee slip according to course wise.
- **Mock Test Receipts:** Administrator generate the mock test slip of every student.

2.2.7 **Reports:** In this main block administrator generates reports according to course wise, mock test report, student report, teacher report etc. Defines sub blocks are following:

- **Course Wise Report:** Administrator generates a final report of student course wise.
- **Mock Test Report:** Administrator generates a mock test report of student.
➢ **Time Table Report:** Administrator made a final report of time table for teachers.

➢ **Batch Report:** Administrator generates a final report of student batch according to course.

➢ **Student Report:** Administrator generates a final report of student’s performance report.

➢ **Fee Report:** Administrator generates a final report of student fee.

➢ **Teacher Report:** Administrator generates a final report of teacher.

➢ **Poor Candidate Report:** This report generates by administrator for poor candidate performance.

2.3 There are four sections on the home page:

2.3.1 **Teacher Registration:** In this section it calculate total number of Teachers get the information from database.

2.3.2 **Student Registration:** In this section it calculate total number of Students get the information from database.

2.3.3 **Outgoing Transactions:** It totals the outgoing transaction.

2.3.4 **Incoming Transactions:** It totals the outgoing transaction.

2.4 There is one Histogram chart: It shows the Course wise report.

2.5 There is one clock: It shows the system time.
BACKGROUND

- Identification of needs
- Software Used
- Introduction
- Hardware Used
- Proposed Solution

3.1 Identification of needs: FYLFOT is a web application. It is an online web application where user gets Information online about course type's i.e. IELTS and speaking, they get knowledge about timing of class, about fee structure also. For make big size of web application there is requirement of secure framework and for this I choose visual studio server 2013. Visual Studio is basically a Microsoft’s framework. And for making big type of web application there is need of bigger database, for storing big data I used SQL server 2012 because there was needed for creating many tables for accessing the record.

3.2 SOFTWARE USED: During my project semester training I made project used

Following technologies:

- **FRONT END TOOLS: VISUAL STUDIO 2013**

< Logo No. 1 Visual Studio >
➤ BACK END TOOL: SQL SERVER 2012

➤ LANGUAGE: C#

➤ FRAMEWORK: Microsoft ASP.NET
3.3 INTRODUCTION

- **VISUAL STUDIO 2013**: Microsoft Visual Studio is an integrated development environment (IDE) from Microsoft. It is used to develop computer programs for Microsoft Windows, as well as websites, web applications and web services. Visual Studio uses Microsoft software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It can produce both native code and managed code.

Visual Studio Tools for Applications (VSTA) is a set of tools that independent software vendors (ISVs) can use to build customization abilities into their applications for both automation and extensibility. Those customization abilities can be used by end-users to tailor the ISV's application within a managed extensibility environment just like VBA.

Microsoft provides a preview of Visual Studio Code for free with a proprietary license. It is a source code and text editor, along with other features, for Linux, OS X, and Windows.

- **SQL SERVER 2012**: Microsoft SQL (Structured Query Language) Server is a relational database management system developed by Microsoft. As a database server, it is a software product whose primary function is to store and retrieve data as requested by other software applications, be it those on the same computer or those running on another computer across a network (including the Internet). There are at least a dozen different editions of Microsoft SQL Server aimed at different audiences and for workloads ranging from small single-machine applications to large Internet-facing applications with many concurrent users.

- **Microsoft ASP.NET**: Active Server Pages (ASP), also known as Classic ASP or ASP Classic, was Microsoft's first server-side script engine for dynamically generated web pages. Initially released as an add-on to Internet Information Services (IIS) via the Windows NT 4.0.

.NET Framework (pronounced dot net) is a software framework developed by Microsoft that runs primarily on Microsoft Windows. It includes a large class library known as Framework Class Library (FCL) and provides language interoperability (each language can use code written in other languages) across several programming languages. Programs written for .NET Framework execute in a software environment (as contrasted to hardware environment), known as Common Language Runtime (CLR), an application virtual machine that provides services such as security, memory management and exception handling.
3.4 HARDWARE INTERFACE

USER SIDE The website interacts with the Intel/Gigabyte hardware as website which can use in any browser like Google Chrome, Mozilla Firefox, Spartan, Opera, and Safari.

DEVELOPER SIDE The SOFTWARE interacts with the system hardware as application Software which in turn makes use of certain hardware devices to take input and give output to the developer. The supported devices are listed below:

- Keyboard (for user input)
- Mouse (for user input)
- Printer (for printing reports)
- Monitor or Screen (for showing interfaces and reports)

3.5 HARDWARE REQUIREMENTS

The system is to be developed with the following hardware configuration.

- Machine: Intel Based Pentium processors
- RAM: 1 GB
- Hard Disk Space: 5 GB
- Clock speed: 500 MHz

3.6 PROPOSED SOLUTION

The proposed solution is to develop a web application “FYLFOT” to meet the requirements of users.

Development of the proposed web application will be done in 3 phases:-

Phase 1: Designing the Interfaces – In this phase user interface will be designed for online registration for particular course.

Phase 2: Data mining- Creation of database and connecting the web application data with database, all logical sequence in proper manner.

Phase 3: Result generation- All result generated about total registration of students and teachers and also total transaction happened.
4.1 **ACTIVITY DIAGRAM**

**Activity diagrams** are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control.

Activity diagrams are constructed from a limited number of shapes, connected with arrows. The most important shape types:

- *rounded rectangles* represent actions;
- *diamonds* represent decisions;
- *bars* represent the start (split) or end (join) of concurrent activities;
- a *black circle* represents the start (initial state) of the workflow;
- an *encircled black circle* represents the end (final state)
Activity Diagram for Web Application:

User  Administrator

Login
Select Course
Pay Amount

Teacher

Assigned Seat
Registered
Check Detail

View Detail
IELTS
Speaking

Result

Log Out

< Figure No. 1 Activity Diagram >
4.2 SEQUENCE DIAGRAM

A sequence diagram is a kind of interaction diagram that shows how processes operate with one another and in what order. It is a construct of a Message Sequence Chart. A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the scenario. Sequence diagrams are typically associated with use case realizations in the Logical View of the system under development. Sequence diagrams are sometimes called event diagrams, event scenarios, and timing diagrams.

A sequence diagram shows, as parallel vertical lines (lifelines), different processes or objects that live simultaneously, and, as horizontal arrows, the messages exchanged between them, in the order in which they occur. This allows the specification of simple runtime scenarios in a graphical manner.
Sequence diagram for Web Application:

< Figure No.2 Sequence Diagram >
4.3 DATA FLOW DIAGRAM

Before the use of Data flow diagram, an analyst’s understanding of the system was given in the descriptive format. Users were not inclined to go through this document fully, which meant that their understanding of the system could be imperfect. A DFD gives a pictorial view of the system, which can be easily explained to users. It is used by system analyst have a proper and similar understanding of the system.

A data flow diagram is of two types, Physical and Logical

Physical DFD

The Physical Data Flow diagram (DFD) reveals the actual devices and people that perform the functions. It shows the physical components of a system. The emphasis of this type of DFD is on the physical characteristics of a system. It depicts the various people doing jobs in an organization.

Logical DFD

A Logical DFD shows the ongoing activities of the system. For example, a Logical DFD can represent that details are checked and accounts of funds etc. will be update. It does not, however show us how these task are done or who does these tasks.

Guidelines on Identifying And Naming Processes

A process name is typically any strong verb and a single direct object identified in the case study. An example is, “Generate Order Detail.”

The name of a process should accurately convey what goes on in the process with respect to the data received and sent.

Avoid words like ‘process’ and handle.

Repartition or decompose the system again if some process cannot be named.

The principal of data conservation necessitates that there is no missing or extraneous data flow to and from a process.
### Table of Symbols for DFD

<table>
<thead>
<tr>
<th>Details</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>External Entity</td>
<td><img src="image1.png" alt="Diagram" /></td>
</tr>
<tr>
<td>Process</td>
<td><img src="image2.png" alt="Diagram" /></td>
</tr>
<tr>
<td>Data Flow</td>
<td><img src="image3.png" alt="Diagram" /></td>
</tr>
<tr>
<td>Data Store</td>
<td><img src="image4.png" alt="Diagram" /></td>
</tr>
</tbody>
</table>

*Figure No.3 Table of Symbols for DFD*
DATA FLOW DIAGRAM

User

LoginCheck Details

Make Pay Slip

Prepare Test Result Declare

Fylfot

Administrator

Course Assign

Teacher

Registration Log

Database

< Figure No. 4 DATA FLOW DIAGRAM >
4.4 DATABASE DESIGN

SQL SERVER 2012: Microsoft SQL (Structured Query Language) Server is a relational database management system developed by Microsoft. As a database server, it is a software product whose primary function is to store and retrieve data as requested by other software applications, be it those on the same computer or those running on another computer across a network (including the Internet). There are at least a dozen different editions of Microsoft SQL Server aimed at different audiences and for workloads ranging from small single-machine applications to large Internet-facing applications with many concurrent users.

Tables that were used in web application shown below:

1. Login Table - Table Name: LoginHistory

It contains the details entered from the user.
2. Attendance Table

Table Name: Attendance

It stores the information of attendance of students.

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Data Type</th>
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</tr>
</thead>
<tbody>
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<td>AttendanceId</td>
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<tr>
<td>Day</td>
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<tr>
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<td></td>
</tr>
<tr>
<td>RoomId</td>
<td>int</td>
<td></td>
</tr>
</tbody>
</table>

<Table No. 2Attendance>
3. Batches Table  - Table Name : Batches

It stores the information of batches of particular course.

< Table No. 3Batches >

4. Courses Table  - Table Name: Courses

It stores the information of particular course.

< Table No. 4Courses >
5. Courses Type Table - Table Name: CoursesTypes

It stores the information of type of different courses.

<Table No. 5 Courses Type>

6. Fee Structure Table - Table Name: Fees

It stores the information of fee paid by student.

<Table No. 6 Fees>
7. Level Table  -  Table Name: Levels

It stores the information of teachers' unique level.

< Table No. 7Levels>
8. Menu Table - Table Name: Menu

It stores all menus’ information in database.

<Table No. 8Menu>
9. Mock Test Registration Table  -  Table Name: MockTestRegistration

It stores the information of mock test registration.

<Table No. 9Mock Test Registration>

10. Mock Test Result Table  -  Table Name: MockTestResult

It stores the results of mock test.

<Table No. 10Mock Test Result>
11. Mock Test Table - Table Name: MockTest

It stores the information about mock test.

<Table No. 11Mock Test>
12. Payments Table  -  Table Name: Payments

It stores the information about payment paid by students.

< Table No. 12Payments >
13. Permission Slip Table - Table Name: Permission Slip

Admin gets information about paid amount and gives the permission slip to student.

14. Profile Table - Table Name: Profiles

- 28 -
15. **Rooms Capacity Table** - **Table Name: Rooms**

It stores the information of room capacity.

<Table No. 15Rooms>
**16. Teachers detail Table**

**Table Name: Teachers**

It stores the detail of teachers.

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<thead>
<tr>
<th>Column Name</th>
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</thead>
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*<Table No. 16 Teachers detail>*
### 17. Student Attachments Table

- **Table Name:** StudentAttachments

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<td>StudentId</td>
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< Table No. 17Student Attachment>
### 18. Student Details Table - Table Name: Students

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<th>Column Name</th>
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</table>

< Table No. 18Students Detail>
5.1 INPUT SCREENS

Input design for the application consists of registration from students and teachers, each of which requires the admin to reflect his requirements that he inputs.

5.2 LAYOUT

Layout of the forms is very simple and projects to gather the detailed requirements from the user.

5.3 MODULE: ADMINISTRATOR

5.3.1 Login: Administrator login here.

<Figure No. 5 Login Page>
5.3.2 Home Page: It shows the dashboard. Dashboard is a screen where information in the blocks.

*Figure No. 6 Home Page*

5.3.3 Master >> Time master: It shows the lecture time.
<Figure No. 7 Lecture Time>

5.3.4 Master >>Course: It shows the information about courses.

<Figure No. 8 Course>
5.3.5 Master >> Fees: It displays information about a particular course.

5.3.6 Master >> Room: It shows the total capacity of rooms.

-Figure No. 9 Fee Structure-

-Figure No. 10 Rooms Capacity-
5.3.7 Master >> Mock test: It display the mock test date.

5.3.8 Student >> Student Registration: It display the total number of students is registered.
5.3.9 **Student Attendance:** It displays the attendance of students daily.

![Student Attendance Table]

5.3.10 **Teacher Registration:** It displays the detail of teacher.

![Teacher Registration Table]
5.3.11 Teacher >> Teacher Message: In this block Admin sends the message to teacher(s).

<Figure No. 15 Teacher Send Message To Admin>
5.3.12 **Update >> Update Student Detail:** Here admin can update the details of student.

![Update Student Details](image)

**<Figure No. 16 Update Student Details>**

5.3.13 **Update >> Update teacher detail:** Admin can update the details of teacher.

![Update Teacher Details](image)

**<Figure No. 17 Update Teacher Detail>**
5.3.14 Receipts >> Fee receipt: Admin generate fee receipt of student.

5.3.15 Reports >> Student report: Admin generate performance report of student.
5.3.16 Reports >> Teacher report: Admin generate the report of teacher.

![Teacher Report](image)

<Figure No. 20 Teacher Report>

### 6.0 TESTING APP CHECKLIST

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Category</th>
<th>Test Step</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GUI</td>
<td>Check for Alignment</td>
<td>Pass</td>
</tr>
<tr>
<td>2</td>
<td>GUI</td>
<td>See each and every buttons, images Pixels as per wire frame (Some clients very sticky to their wireframes), Means they need exactly (Pixel by pixels) what they have in wire frame.</td>
<td>Pass</td>
</tr>
<tr>
<td>3</td>
<td>GUI</td>
<td>UI should be User Friendly.</td>
<td>Pass</td>
</tr>
<tr>
<td>4</td>
<td>GUI</td>
<td>UI should be not break.</td>
<td>Pass</td>
</tr>
<tr>
<td>5</td>
<td>GUI</td>
<td>Spell check (Check on Alert, error popup too)</td>
<td>Pass</td>
</tr>
<tr>
<td>6</td>
<td>GUI</td>
<td>Font size should be consistent</td>
<td>Pass</td>
</tr>
<tr>
<td>7</td>
<td>GUI</td>
<td>Any kind of text should not be cutting off</td>
<td>Pass</td>
</tr>
<tr>
<td>8</td>
<td>GUI</td>
<td>Consistent, clearly recognizable good &quot;look-&amp;-feel&quot;</td>
<td>Pass</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>-----</td>
<td>-----------------------------------------------------------------</td>
<td>-----</td>
</tr>
<tr>
<td>9</td>
<td>GUI</td>
<td>Check with mainly browsers (Chrome, Firefox, Opera etc.)</td>
<td>Pass</td>
</tr>
<tr>
<td>10</td>
<td>GUI</td>
<td>Save Confirmations with popup message</td>
<td>Pass</td>
</tr>
<tr>
<td>11</td>
<td>GUI</td>
<td>Delete Confirmations with popup message</td>
<td>Pass</td>
</tr>
<tr>
<td>12</td>
<td>Functional</td>
<td>All buttons and link works properly</td>
<td>Pass</td>
</tr>
<tr>
<td>13</td>
<td>Functional</td>
<td>Radio Buttons work properly during test</td>
<td>Pass</td>
</tr>
<tr>
<td>14</td>
<td>Functional</td>
<td>Calculation of result and Matching with correct Answer</td>
<td>Pass</td>
</tr>
<tr>
<td>15</td>
<td>Functional</td>
<td>Automatic Email sends to correct user</td>
<td>Pass</td>
</tr>
<tr>
<td>16</td>
<td>Functional</td>
<td>Highest score calculation work proper</td>
<td>Pass</td>
</tr>
</tbody>
</table>

7.0 Observation and Findings

During developing this App a conscious effort has been made, making use of available tools, techniques and resources, getting help from existing freeware code for learning – that would generate a proper web application.

Developing this web application, we have taken care of user-friendliness, and as flexible as possible. As such one may hope that the web application will be acceptable to any user and will adequately meet his/her needs. As in case of any application development processes where there are a number of shortcomings, there have been some shortcomings in the development of this application also. The project is still under modification.

8.0 RESULTS

8.1 Achieved Goals

- The main objective of this web application is student can registered online for particular course.
- This web application helpful for students who wants to join IELTS/speaking course the registered online easily.
- Students can check fee amount online.
- Students can gives mock test of pre-registration.
8.2 Limitations

- Data in the database is less in volume.
- Need of own server database for adding a lot of data.
- Not supported in all Internet Explorer.
- Sometime data is overflow

9.0 CONCLUSION AND FUTURE SCOPE FOR MODIFICATION

While developing this web application a conscious effort has been made to create and develop an application, making use of available tools, techniques and resources – that would generate a proper web application.

While making this web application, an eye has been kept on making it as user-friendly, and as flexible as possible. As such one may hope that the application will be acceptable to any user and will adequately meet his/her needs.

As in case of any web application development processes where there are a number of shortcomings, there have been some shortcomings in the development of this application also. The project is still under modification.

9.1 Future Scope and Modification

The scope of the project includes that what all future enhancements can be done in this system to make it more feasible to use

- Databases for different forms SQL storage can be provided.
- This web application an efficient for students who wants to join course i.e. IELTS/Speaking.
- Admin can update student as well as teacher detail.
- Manage & backup versions of documents online.
REFERENCES

[1] www.asp.net/

[2] www.w3schools.com/aspnet/


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