COMPUTER SCIENCE & ENGINEERING DEPARTMENT

Project DESIGN (CSE 411)

First Draft

Submitted By:

Student Name:	Laila Hamdan Alshammari Taif Abdullah Alenazi Nada Nazal Alshammari
Student ID:	2191003262 2191003272 2191003378
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1. Introduction

We agreed to chose the idea of our project to be a website for learning English online. And the general issue that our project deals with is that some members of our community experience impairments in learning English, whether they are healthy individuals or deaf-dumb. So our main goal is to raise the level of education in our society and improve their language skills by providing an electronic platform that supports the education of the deaf-dumb and meets the needs of individuals of all ages by providing teachers and experts to learn from their experiences as well as providing an electronic library that contains books in English for self-learning.

Therefore, we will create a website that helps in learning English online, as it provides features that help in learning effectively and easily without having to go to institutes or actual teaching places that may not provide education for the deaf-dumb class.

2. Problem Statement

The main problem is the weakness in electronic learning resources for the English language, its lack of efficiency and reliability, and the lack of sufficient resources for teaching English to the deaf and dumb class.

3. Background

Learning English is essential in the modern era, because it is considered the language of science, industry and various fields of life, so after finding many statistics, we found that recent statistics say that "the percentage of Saudis who speak English increases by 15% annually."

" The results of the Global English Language Proficiency Index report showed a gradual decline in the ranking of the Kingdom of Saudi Arabia over the past three years ". Therefore, we aspire in our project to double the percentage of those who speak English and be more fluent in the English language, to reach 30% or more in line with Vision 2030.

We also noticed a neglect towards the deaf-dumb group in the matter of learning the English language and the spread of the idea that learning a sign language different from their mother tongue is almost impossible, and there are no educational websites that help this group in learning, so we have included this group to learn English on our website in appropriate ways that are in line with their needs.

4. Requirements and Specification:

We designed the database for our project using by using Microsoft SQL Server 2017. Then we started creating a Database and storing information in it based on our project, connected the tables to each other, and defining the relationships between them and connected them through **primary** and **foreign** keys, then we stored the data for each table.
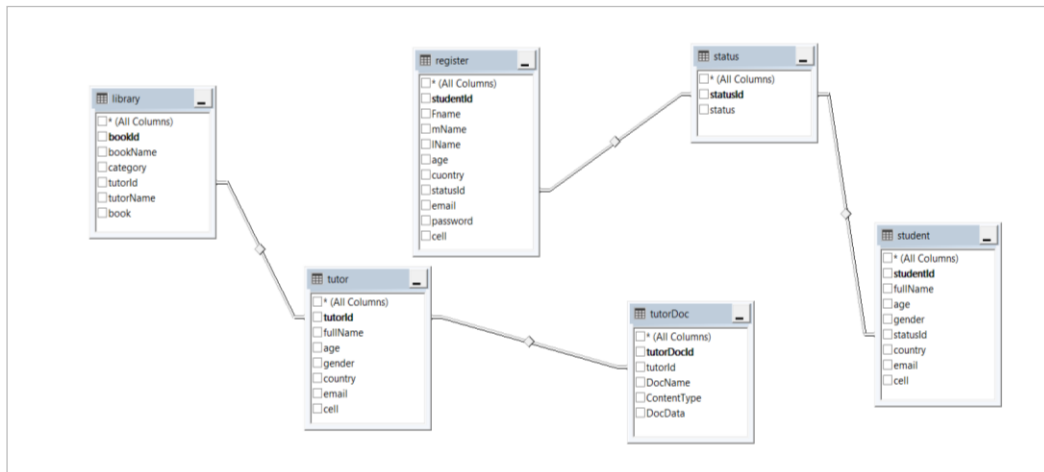

Figure 1 Database diagram for our website

To design user interfaces, we used Microsoft Visual Studio 2017, So after we finished creating the database for our project, we connected the database with Visual Studio to complete our work, then we started working on the back-end and front-end, designed different type of interfaces that differ according to the type of user who will login to this website.

5. **System Design**

The design of our Sabeel website is the fastest and easiest way to learn English better, and it consists of several important pages so that it is easy for the visitor to join our web when browsing the site, and it contains several pages, the first page , which is the main page that appears when opening the site, as it contains our main features The platform, then the About page, which contains an introductory overview of our site to help users understand the site easier, and a contact page called Contact Us In the event that the visitor, whether a student who wants to join the learning or a teacher who wants to join to become our teacher, wants to inquire about something, he can communicate with us easily.

In addition to that, we designed a new user creation page for students who want to join and learn and a login page.

When registering as a new user, a test will appear for the student so that he can know the first level from which learning begins.

Each level will contain a video clip or a PDF file, a conversation with a teacher or expert, and then a short test that shows how well the student has passed this level until he moves to the next level.

Upon completing the levels, a final test of several questions will appear to the student to test and know the extent of his learning of the English language in this course.

At the end of this simple course, the student will have completed all levels and become able to speak English fluently and more flexible than before.

References

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