Web solution for Online learning Management System for Schools.

<u>Project Proposal</u>

Prepared by:

K.P.Sadusha Nadeesh

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Overview

The proposed system is designed to efficient management and to continue the education curriculum throughout the country without hold. With the Covid pandemic the education system was collapsed, and students had to face many challenges when learning.

There are many problems other than attending classes/school in a situation like a pandemic etc.

1. The students are not able to be attending to school with the lack of transportation, curfew situations etc.
2. If somehow a student absent, he/her will not be able to take that specific class session again.

Objective

As a Solution for those problems, this is a web solution where the students can learn like they were in school, classroom from home in a crisis.

- We are going to make an online Subject wise for each grade education management system.
- This is a web-based application so students can access anywhere remotely.
- This helps to face similar situation in the future, students can focus on learning.
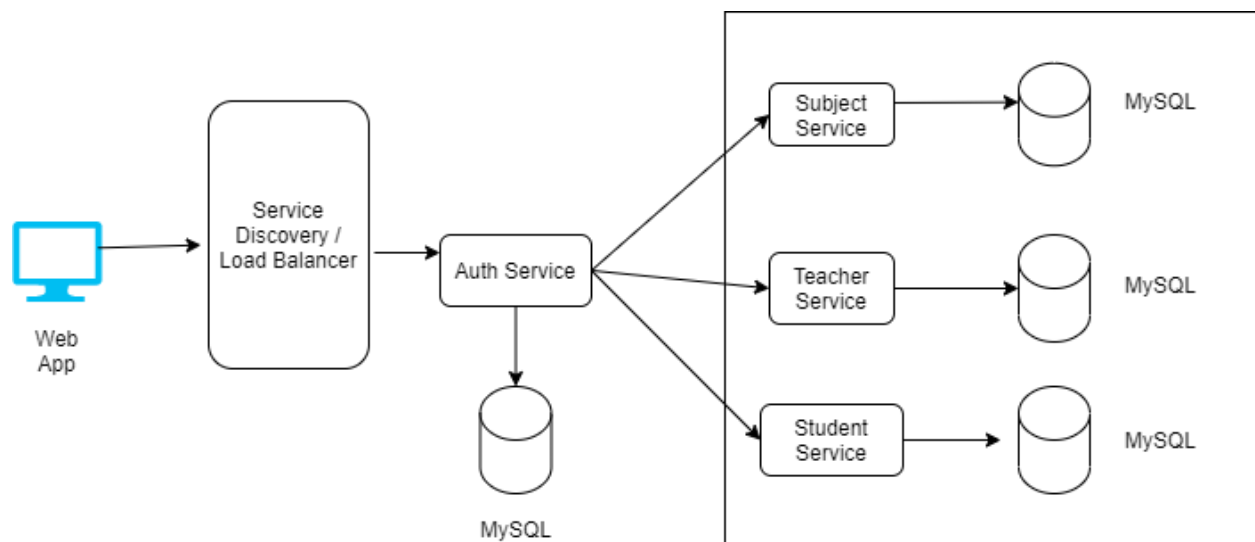- Apart from a crisis, students can get to know educational news, notices etc.

Benefits

1. Teaching aids multimedia.
2. Online availability of subject material upgraded constantly.
3. 24/7 * 365 availability.
4. E - Library.
5. Lesser time consumption.

Architecture

This web application consists with main Services like,

1. Subject Service
    -   This manages the grade wise curriculum, online educational materials for each subject for each grade.
2. Student Service
    -   This service manages the student activities, student registry and grade enrollment.
3. Teacher Service
    -   This Service manages the learning materials for each subject by allowing teachers to create content and allowing them to publish it to the site.
4. Auth Service
    -   This manages the applications security.

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Required Software/Frameworks and Deployment
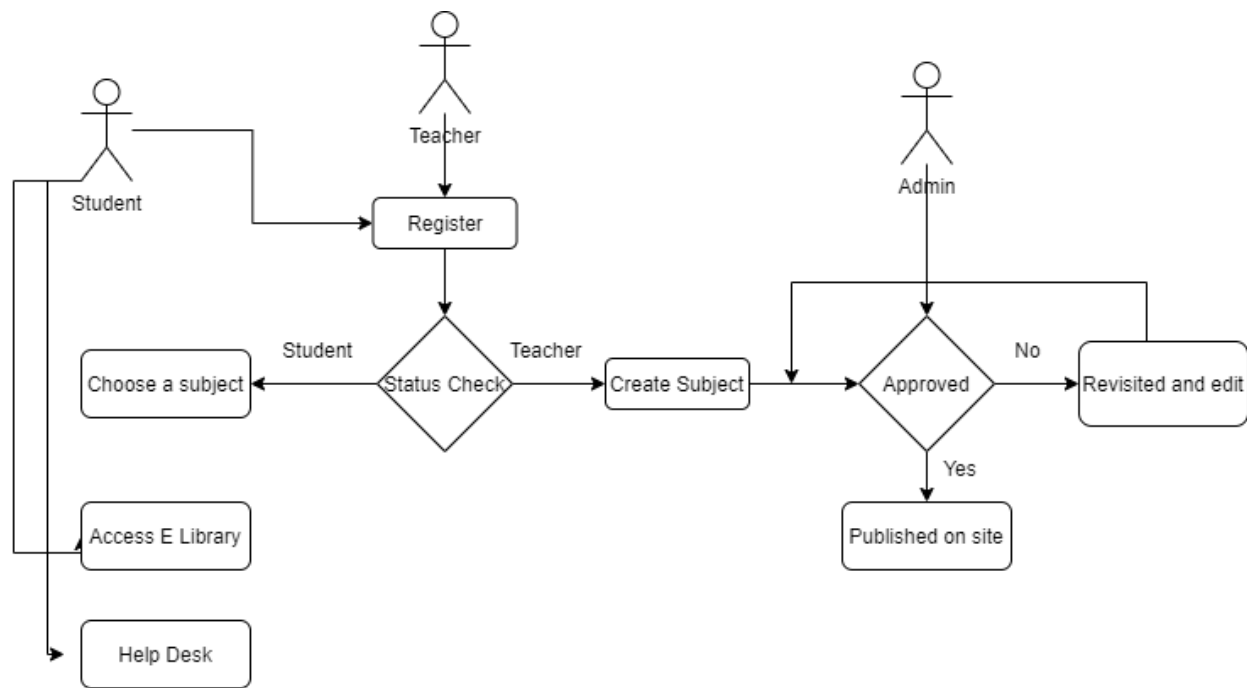
Software/frameworks:

This web application is to be developed using Microservices NestJs with NodeJS, Angular and MySQL Data base with TypeORM.

Deployment:

After the completion of the project this web application will be deployed in Dockers alongside MySQL database.

Engagement Levels

Main functions and accessibility of the web application.

Summary

By implementing this web application, main goal is to provide a Quality, sustainable and user-friendly learning environment for the children in the country by avoiding hardships that stops progressing their educational activities in this crucial time and achieve their goals without delay.