



THE REAL SMELL TO CONNECT

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AGAMI

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1. INTRODUCTION

The whole world is facing a great pandemic now. The things are not same as it was before and the prediction things will not be same again according to WHO, economist and scientists. We must need to think about alternative solution instead of traditional solution. We have to embrace new way of doing things. Education sector is going to be helpful by remote learning. We know that some of the people strive for learning but there are lots of barriers. But with the help of distance learning lots of problem can be solved. In this project a web application is developed with some quite useful features (like attendance and online examination) and a real time conference system is developed where the teacher can teach and the students who are willing to join can join with the credentials (like registration number and email).

2. SOLUTION OVERVIEW

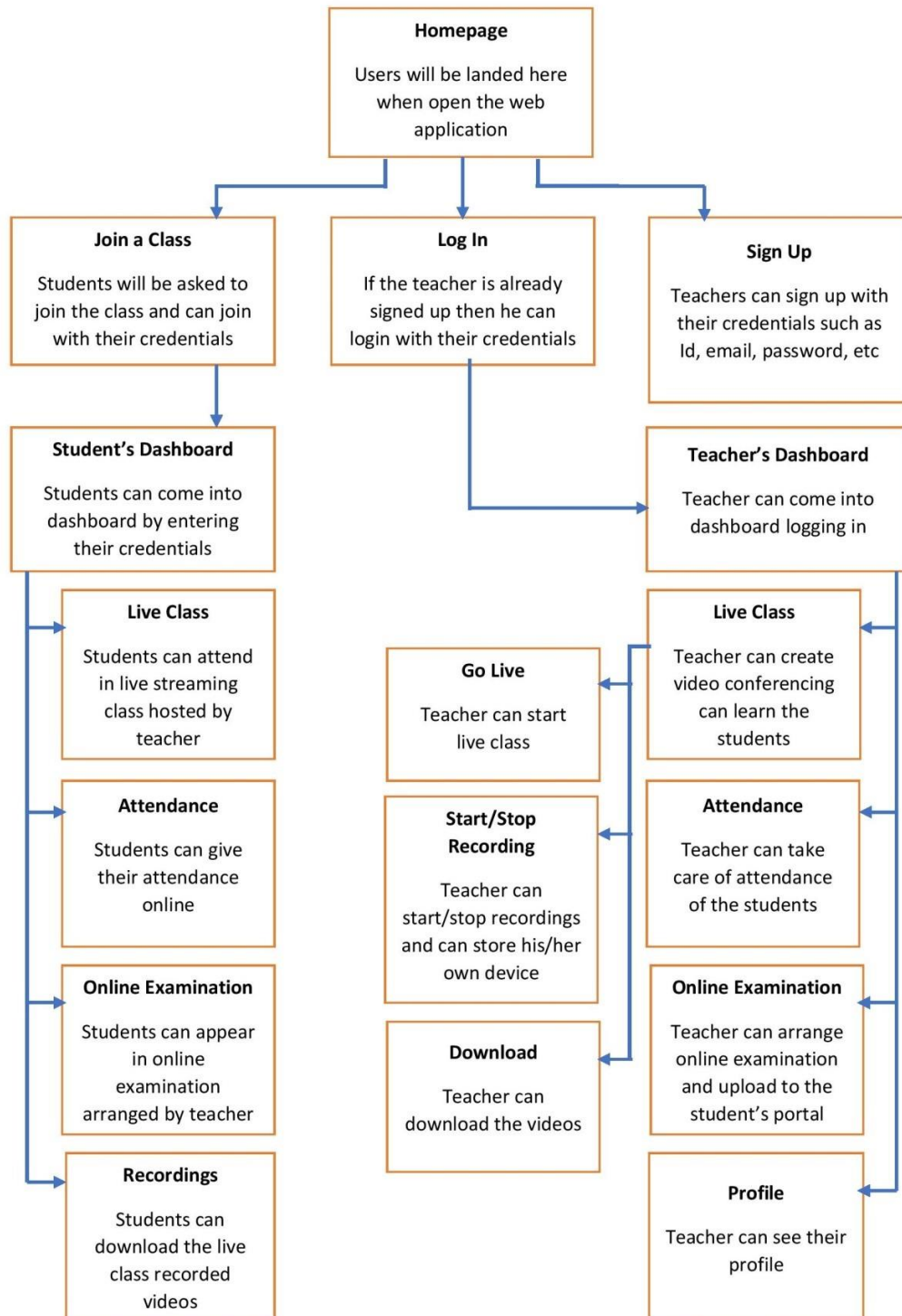
Education sector is going to be helpful by remote learning because the whole world is facing a great pandemic now. Every sector in the world has to think about how they would work. The new trend is going to set is “work from home”. But we know that every job cannot be done from home. But still lots of sectors are going to focuses on mentioned trend. Like that some of the people strive for learning but there are lots of barriers. But with the help of remote learning lots of problem can be solved. The solution overview of this project is to develop a web application with some quite useful features (like attendance and online examination) and a real time conference system is developed where the teacher can teach and the students. This web application can be used by both teacher and students. Students will be assigned to a particular teacher and who are willing to join can join with the credentials.

3. SOLUTION DESCRIPTION

One study says that there are 500 million people yet to in internet in coming future. Therefore can say that remote learning will be one of the most prominent ways of learning. In this project a web application is developed with some quite useful features (like attendance and online examination) and a real time conference system is developed where the teacher can teach and the students who are willing to join can join with the credentials (like registration number and email).

We have taken help of WebRTC technology by which it happened to be possible of making real time communication successful. We have used various languages like for server-side development used PHP, for designing and user interface design purpose used CSS, for dynamic designing purpose used JavaScript and for storage purpose IBM cloud facility is used. Now here we have used only the lite version but as the requirement grows it can be upgraded into premium version. This web application can be used by both teacher and students. Students will be assigned to a particular teacher and teacher can take their attendance, arrange some online quiz and examination. There is a teacher's dashboard available from where he/she can manage all the things. Whenever the teacher feels he/she can record the session and download the session for future purpose which can be uploaded in IBM cloud and also teachers can download and save the session in his/her system. There is also a student's dashboard available from which they can give their attendance, they can attend the live classes of teachers and they can give some online quiz and examination too. This web application is very helpful for teachers as well as students too. In general case, if someone missed the streaming at the particular time, he will not get it back. But in this case, he will be able to get the content by asking the teachers and teachers also review how he teaches by watching his own video. There are feedback and support system for the web application for any kind of help and inputs which will be taken care seriously.

4. SOLUTION ARCHITECTURE



YouTube : <https://youtu.be/ouZYzQ1lOtk>

GitHub : <https://github.com/rizwan07muz/AGAMI-RemoteEducation>