

# Notes: A senior phase study app.

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**Abstract.** An encrypted educational web app that allows students to access educational material offline on their mobile devices. It digitizes the syllabus and represents it to the student in an easy to understand format. A web app is a secure application that is hosted on a three tier server, and allows multiple hosts to access and save the data offline.

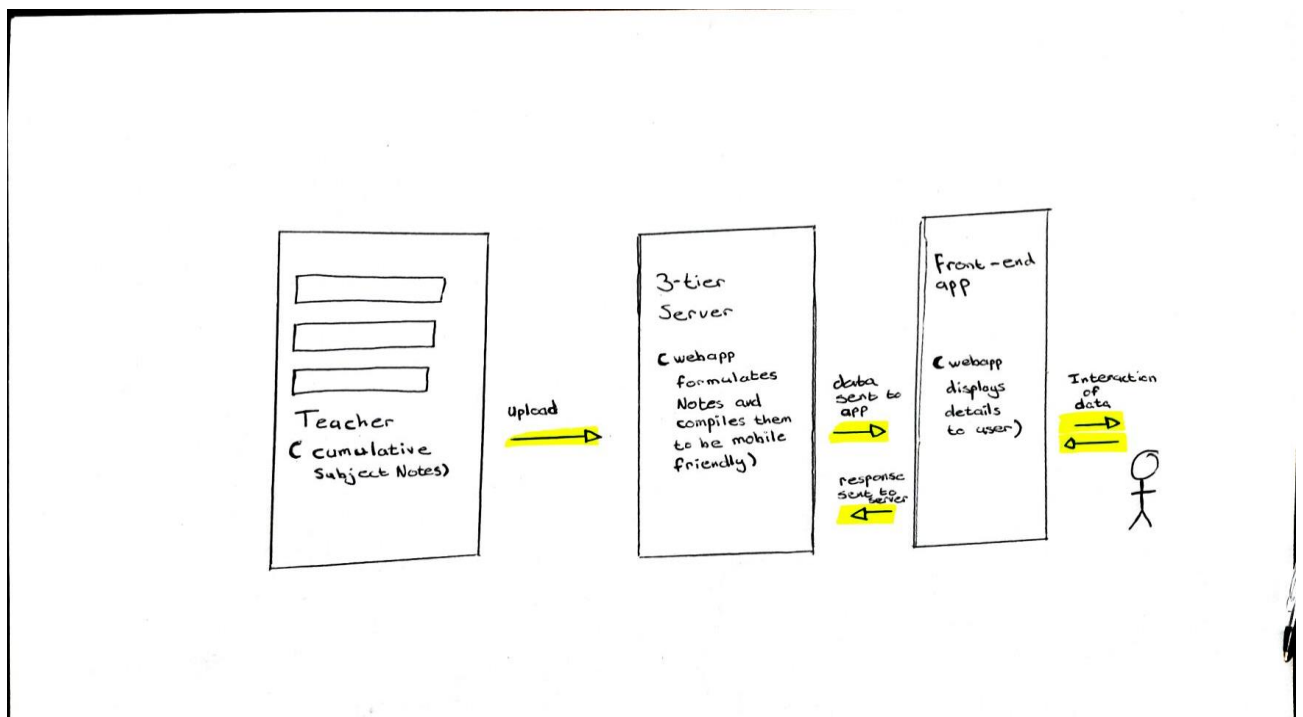
## 1. Introduction

The access and presentation of syllabus content outside of the classroom has proved to be costly and burdening. Thus, the current system that is in place does not meet the prerequisites of the senior phase student.

What is needed is a way to make the content readily available to the student, and keeping in mind the cost efficiency of the app considering the lack of resources in the majority of the students. In this paper we propose a solution to the mobile education gap by using a three tier encrypted server to distribute educational content to the senior phase student.

## 2. Content flow and access

The syllabus content is sourced from qualified educators which is then uploaded to the three tier server. The content is presented to the student by means of the front-end app.



### 3. Policies

The authenticity of the app is verified by the qualified educators who are referenced in the app, and by the DBE (Department of Basic Education). The syllabus content is sourced locally from various educators.

### 4. Proof of work

The content housed on the three tier encrypted server is displayed on to the device screen by means of an offline app. The offline app's apk is within sync with the web app. For first time use and also incremental updates the app interacts with the web server. The student navigates through the app based on items. This proof of work is based on the web app [\[4\]](#) API.

### 5. Incentives

This whitepaper has identified for the far cry of the lack of a cost efficient solution that does the meet prerequisite of the senior phase student in the request of a user friendly senior phase educational app outside of the classroom. This app shall target all senior phase students no matter their race, financial status and sexual orientation without decreasing the quality of educational content outside of the classroom.