

Whiteboard Solution for Agora E- Edu Demo

Purpose

Purpose of this document is to share the features of the Whiteboard solution recommended by BigStep for the Agora e-edu demo. The features are divided into 2 phases:

Phase 1 Features:

1. Replacing the current Whiteboard with a new solution where we will be transmitting the annotations to the attendees / Students through Agora RTM.
2. There will be no need of setting up an additional server only for the Whiteboard.
3. Teachers can upload PPT,WORD,PDF,JPG,PNG files which will be broadcasted to the attendees / Students.
4. There will be a Poll feature which is already developed by us and will be integrated into this solution.
5. The Host / Teachers will be able to display Ads on this Whiteboard which will be displayed on the Right hand side upper corner of the page. Types of ads that can be displayed:
 - a. Text based
 - b. Image
6. It will work on all Web browsers but not on Mobile/Tablet browsers.
7. The teacher can add/ remove the Whiteboard sheets i.e., multiple canvas boards can be created or can be removed.
8. Tools that will be provided for Annotation
 - a. Pen
 - b. Eraser (An option to increase or decrease the size of the eraser).
 - c. Undo the last Shape or Annotation.
 - d. Shapes. Shapes once drawn can't be moved; they can be removed from the undo option.
 - i. Circle
 - ii. Square
 - iii. Rectangle
 - iv. Oval
 - v. Line
 - e. Option to highlight the text written on the pdf or Doc file.
 - f. Clear all

Phase 2 Features:

1. Shapes can be moved by the user (Host / Teacher).
2. The Whiteboard Solution will be interactive, and it will have an option where the Teacher can grant the access of Whiteboard to the students.
3. Able to provide a timestamp for RTC synchronization.
4. Users will have an option to download the canvas file in a PDF form.

Release Dates from BigStep:

1. Phase 1 features : 25 May 2020
2. Phase 2 features : After 2 weeks of Phase 1 Deployment.

Assumptions:

1. We will be converting the files to PDF format to display on Whiteboard.
2. Once the session ends, the uploaded file will be removed from the server.
3. Since RTM has a limitation to send a message of 32 KB, the image URL can be shared and then the image will be rendered as an advertisement.