Real-time PDF Commenting & Audience Interacting Online System

Teaching and Learning Innovation
EXPO 2019

Introduction

In common practice, instructors always tend to use generic computer-aided tools such as Slideshow or Word Processing software to facilitate their teaching in class. However, when they want to highlight few points, sketch some drawings during teaching or even type few texts in real time, it seems that those tools cannot provide a convenient way for them to do so. Instead, many instructors migrate to draw on the whiteboard or even use visualizer to write on hard copy of notes. Thus, I would like to propose an online system that can allow real-time typing, simple drawing and highlight on PDF file online.

PDF Commenting & Interactive System

Simplified Learning Platform for both teachers and students to conduct lessons online with built-in PDF annotation, webcam, attendance taking and real time announcement support.

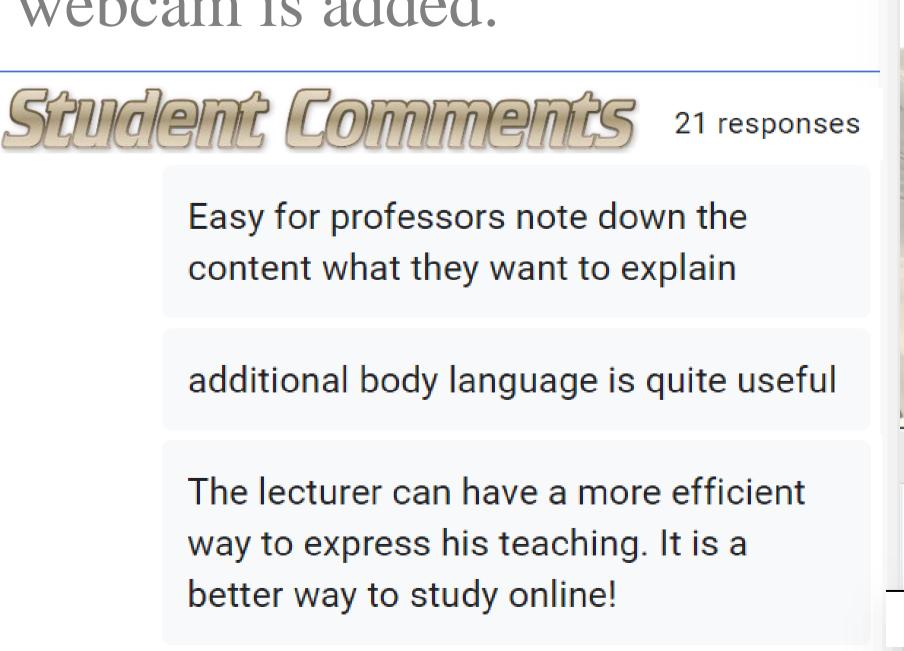Teacher Mode   Student Mode

Teacher Mode

Instructors need to input course code & title as well as self-created password to create a new session. Then, session ID will be shown and you can feel free to pass to students to join.
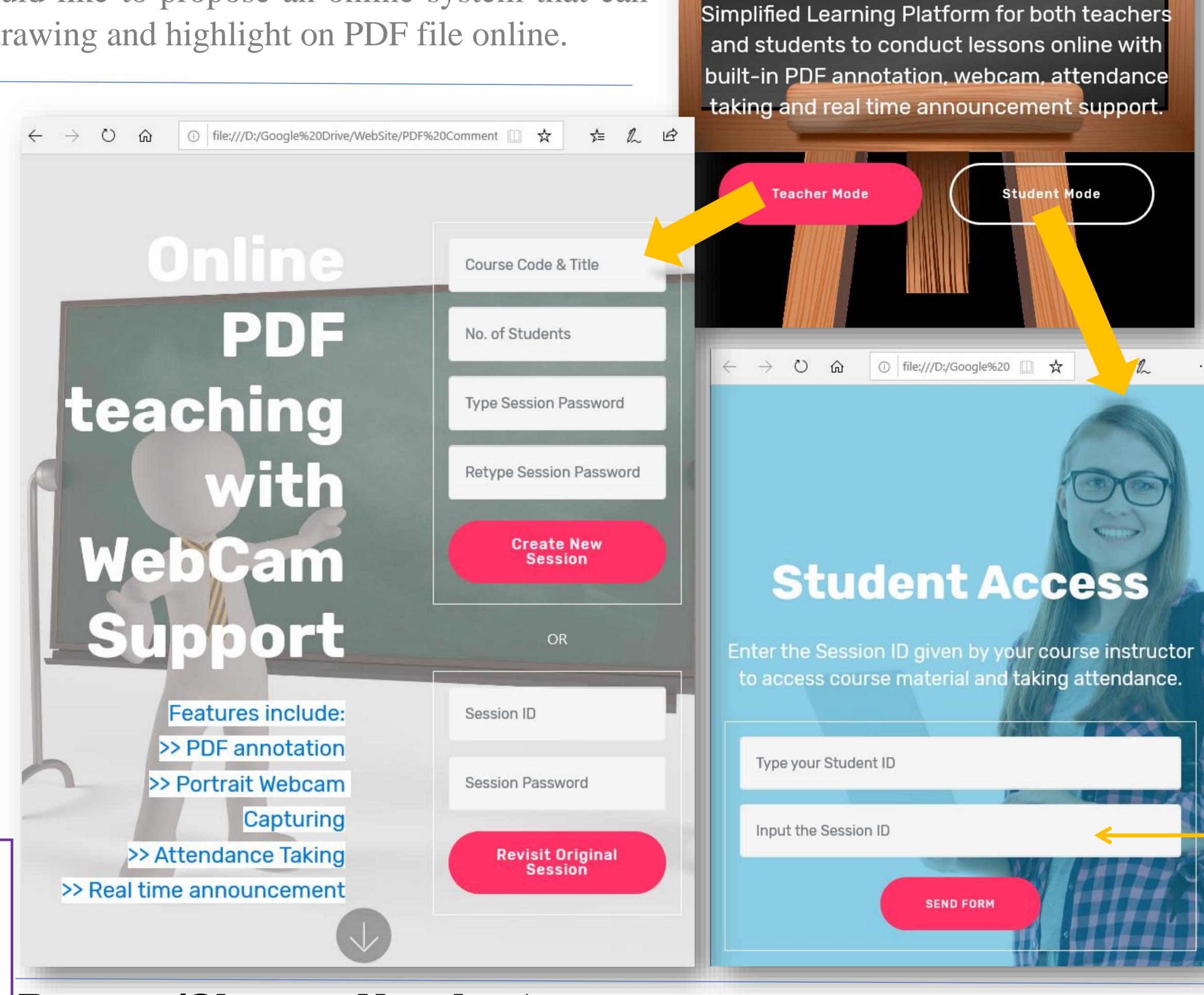
Student Mode

Students need to input their student ID and the session ID given by their course instructors to access handouts, announcement and chatroom.

Online PDF teaching with WebCam Support

Features include:
>> PDF annotation
>> Portrait Webcam Capturing
>> Attendance Taking
>> Real time announcement

Course Code & Title

No. of Students

Type Session Password

Retype Session Password

Create New Session

OR

Session ID

Session Password

Revisit Original Session

Student Access

Enter the Session ID given by your course instructor to access course material and taking attendance.

Type your Student ID

Input the Session ID

SEND FORM

Portrait Face Capture

Besides, it is now a trend to have both face-to-face teaching together with online LIVE teaching. However, it is a common practice that those real-time teaching platform always show presenter's face through a very small window when screen sharing is made. It cannot deliver any cordial feeling to our students. To better handle this issue, a scalable portrait view via webcam is added.

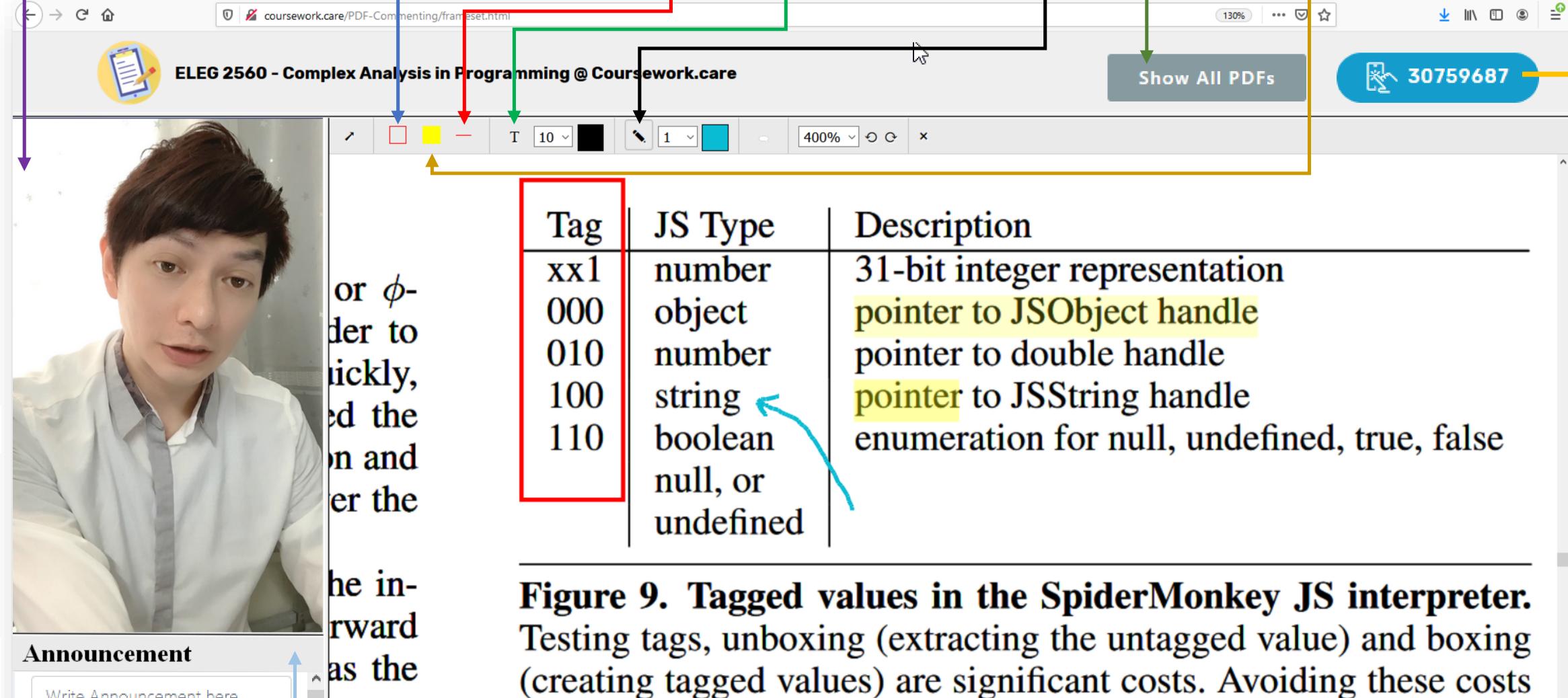## Browse/Change Handout

Instructors can upload their PDF files by clicking "Show All PDFs" button in order to share the handout with students and start teaching using various annotation tools, such as drawing rectangles and lines, typing, freehand drawing, highlighter, etc.

ELEG 2560 - Complex Analysis in Programming @ Coursework.care   Show All PDFs   30759687

Tag	JS Type	Description
xx1	number	31-bit integer representation
000	object	pointer to JSObject handle
010	number	pointer to double handle
100	string	pointer to JSString handle
110	boolean null, or undefined	enumeration for null, undefined, true, false

Figure 9. Tagged values in the SpiderMonkey JS interpreter. Testing tags, unboxing (extracting the untagged value) and boxing (creating tagged values) are significant costs. Avoiding these costs is a key benefit of tracing.

Student Comments   21 responses

Easy for professors note down the content what they want to explain

additional body language is quite useful

The lecturer can have a more efficient way to express his teaching. It is a better way to study online!

Announcement
Write Announcement here...

July 16 2020@18:23 - ELEG2201_Lab1.pdf is uploaded ✖

Announcement

The announcement area allows intructors to input real time notices to alert students.