

# **INTERACTIVE LEARNING WITHIN ONLINE MEDIA**

A Framework for Investigating Video eAssessment

Created by GDP Group 12.



# WHAT IS OUR PROJECT?


We are creating a framework that aims to:

- Make, view and analyse quizzes and polls in videos
- Be accessible
- Be useful for research into education styles
- Be easily integrated into the new version of Synote



# SYNOTE

Multimedia



320 x 240 ▾ 0:00 Play Rewind Forward Pause Stop

Transcript

welcome to this brief interactive guide to using Synote  
What is Synote  
well it's a unique web based application that allows you to create Synmarks which are synchronised Bookmarks and in those Synmarks you can put notes or tags which you can synchronise with a recording of audio or video and also with a transcript of what is said in


Autoscroll is On Highlight Synmarks is Off ▾ Refresh Edit

Synmarks

Start	End	Title	Note	Tags	Next	Owner
0:24		What is Synote?				Mike W.
4:08		Email us your comments				Mike W.
4:51		Choice of Browser				Mike W.
5:36		Browser Back Button				Mike W.
6:31		Using Media Player				Mike W.
8:21		Resizing Panels				Mike W.
9:23		Selecting a Synmark				Mike W.

Autoscroll is On Full view is On Synmark Filter ▾ Chaining is Off Create Edit Delete Refresh

Presentation


 is a web based application that allows you to create synchronised bookmarks or 'Synmarks' that can contain notes and tags synchronised with audio or video recordings, transcripts and slides/images and can be used to find and replay parts of the recordings.

While other software may allow you to bookmark, search, link to, or tag the **WHOLE** of a web based audio or video recording, **ONLY synote** allows you to easily find, or associate your notes or resources with, **PART** of that recording.  
As an analogy, you would clearly find a text book difficult to use if it had no contents page, index or page numbers!

We hope you enjoy using **synote** and look forward to receiving any comments on your experience and ideas and suggestions for how it can be improved. Please email these to me, Mike Ward at [mw@tech.tofers.ac.uk](mailto:mw@tech.tofers.ac.uk)  
Many thanks  
Mike and the SYNNOTE team

We would suggest setting **'Highlight Synmarks is Off'** and **'Mine only is On'** when creating Synmarks to speed up processing. We also suggest pressing the F11 key to hide the browser menu bar and so provide the maximum screen display area for Synote.

Select 'Replay' to use a recording. You can use your Browser 'Back' button to return to the previous page.



Autoscroll is On Create Edit Delete



# WHY?

- A new version of Synote is planned
- New opportunities for Synote
  - After lecture review
  - Live in Lectures
  - MOOCs



# PROJECT PROCESS

- Agile
- Weekly customer meetings
- Weekly sprint planning meetings and retrospectives
- Collaborative and independent working

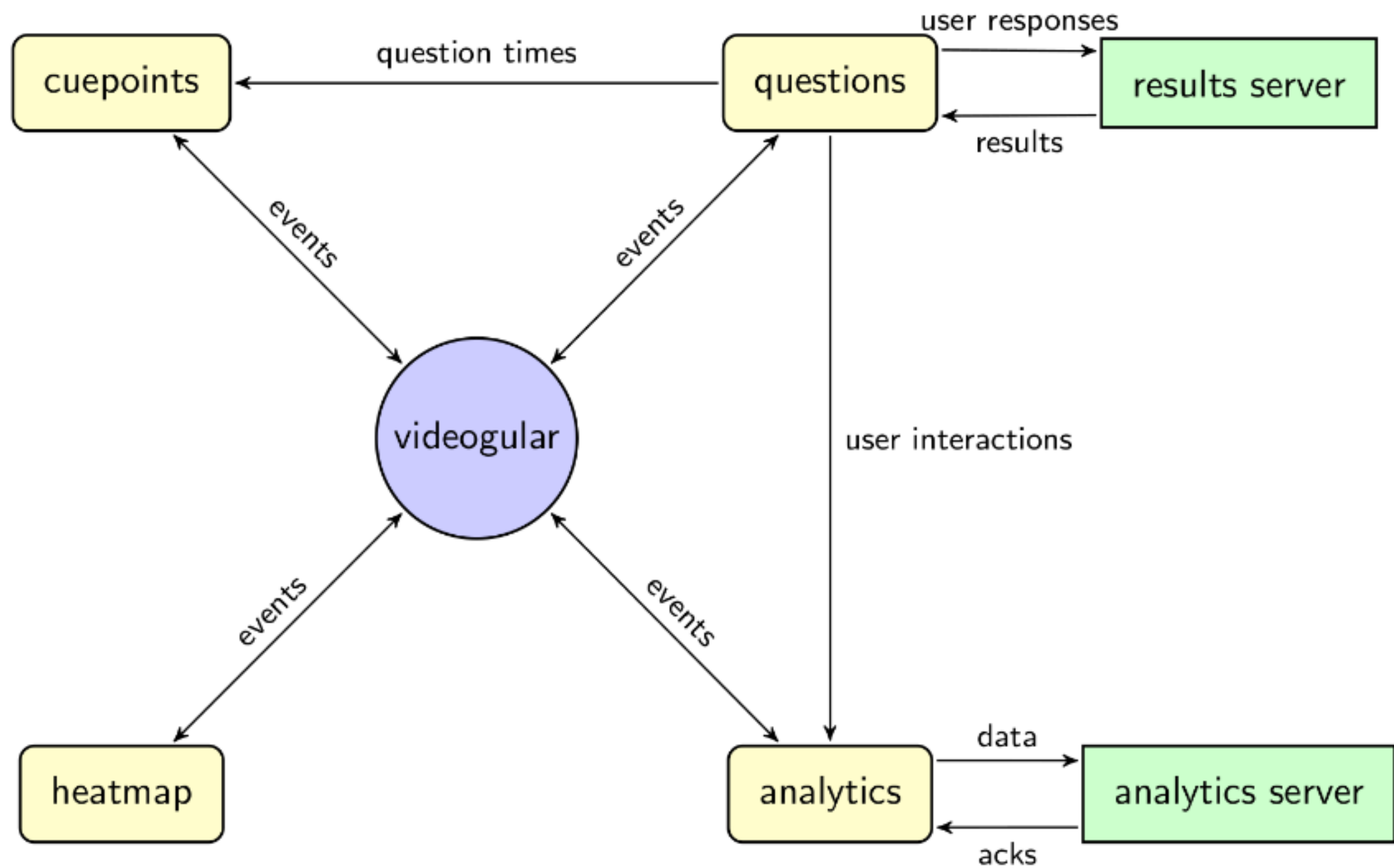


# WHAT DID WE ACTUALLY MAKE?

- Videogular Plugins
  - Questions
  - Cuepoints
  - Analytics
  - Heatmap
- Authoring Tool
- Example Implementations
  - Analytics server
  - Results Server
- Demonstration website for all of the above







# VIDEOGULAR QUESTIONS

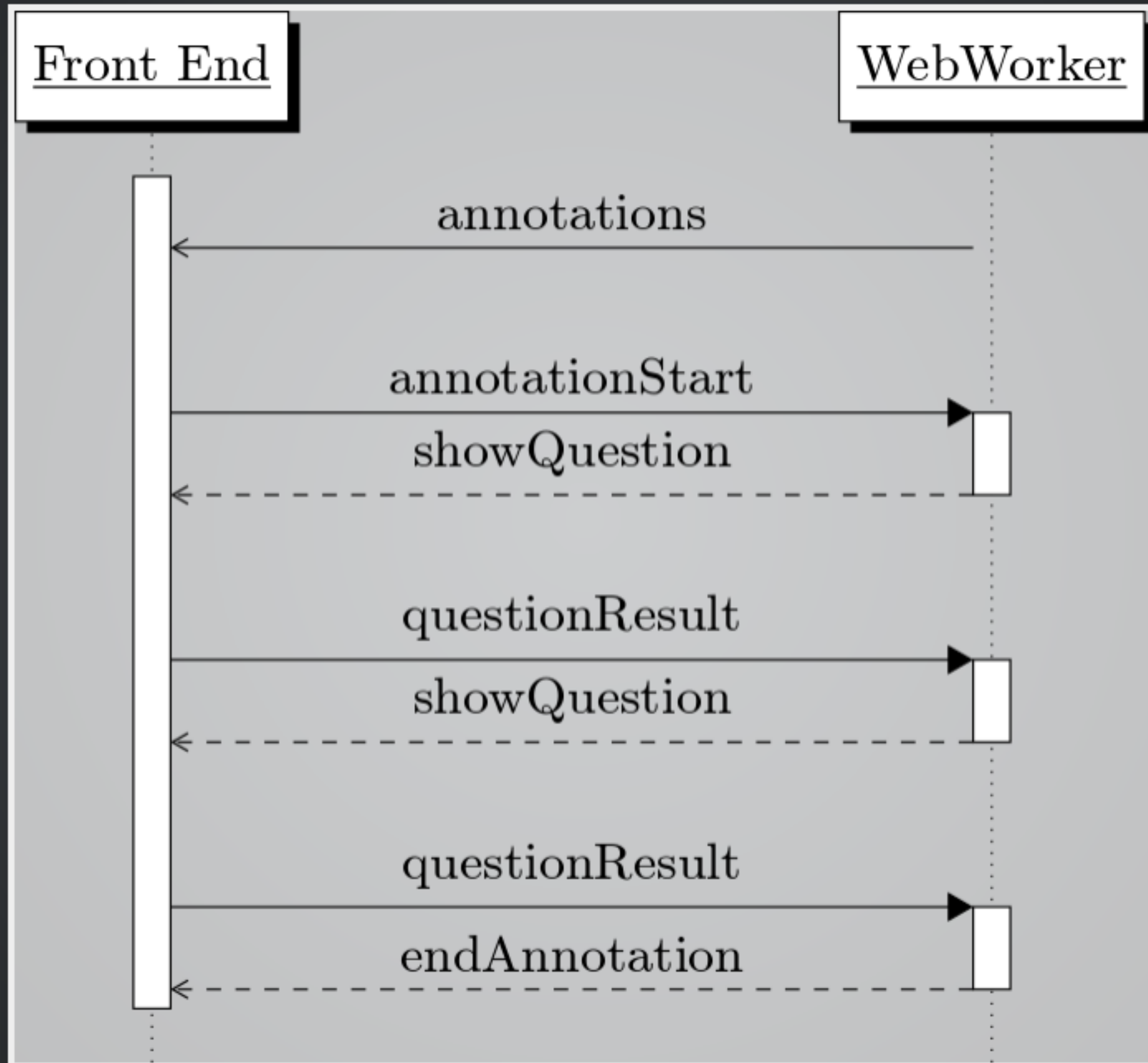




# DEFINITION FILES AND WEBWORKERS

- QTI mixes content and presentation, and so is not accessible
- Why make a complicated, Turing-complete language when there's JavaScript?
  - Untrusted JavaScript can steal your cookies!
- WebWorkers are sandboxed
- The WebWorker can only pass messages to the 'front-end'





# VIDEOGULAR QUESTIONS DEMO



# AUTHORING TOOL



# AUTHORING TOOL

- Reduce barrier to entry
- Written in AngularJS, HTML5 and CSS
- Accessibility



# **AUTHORING TOOL DEMO**



# ANALYTICS





# ANALYTICS

- Analytics are key to understanding how people learn
- We wrote a generic plugin to report events from Videoguolar



# ANALYTICS DEMO



# FUTURE WORK

- Synote
- User Studies
- Video Encoding
- Device Support
- Second Screening
- Accessibility



# SUMMARY

- Deliverable report sign-off completed
- Published all our work
- Contributed to Videogular



# SUMMARY

## QUESTIONS?

**"Pretty Cool" — Yunjia Li**

Lead developer for the new version of Synote

