INTERACTIVE LEARNING WITHIN ONLINE MEDIA

A Framework for Investigating Video eAssessment

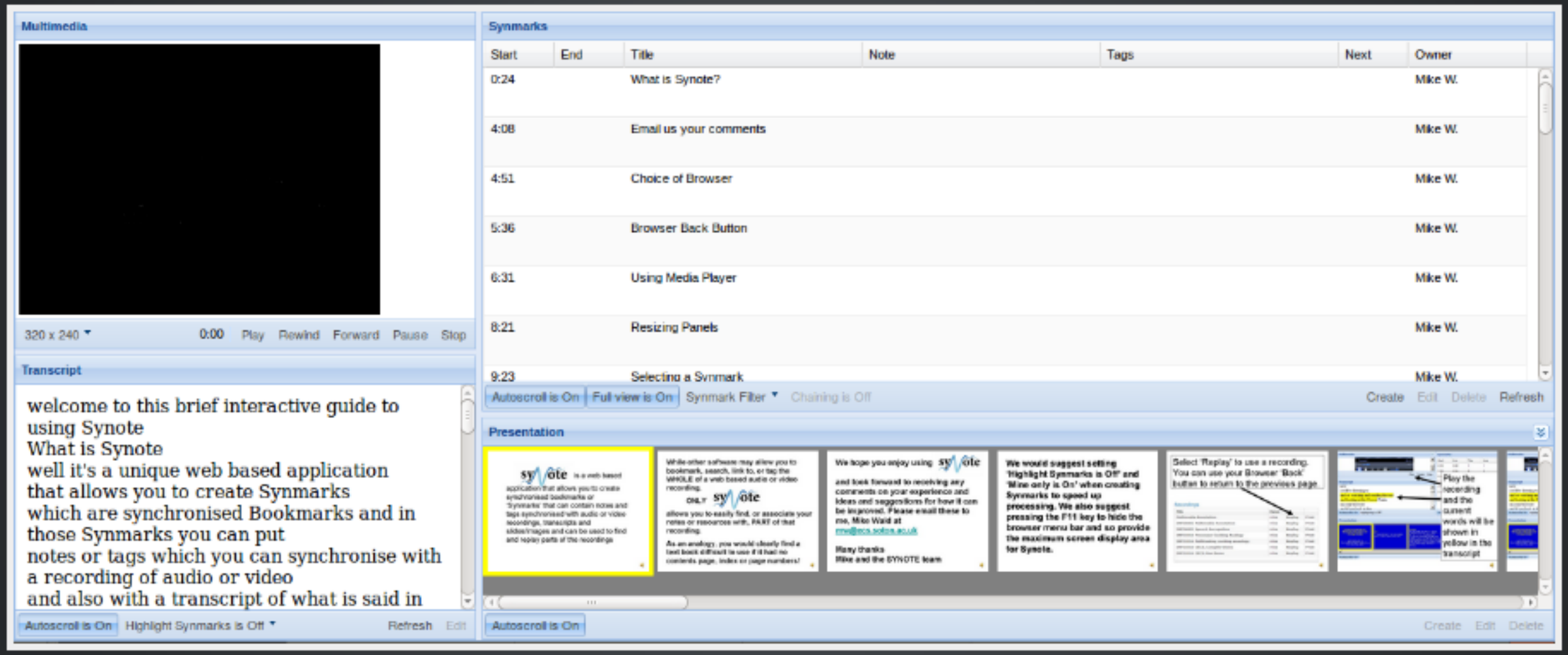
Created by GDP Group 12.

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
Autoscroll is On
Create
Edit
Delete

WHY?

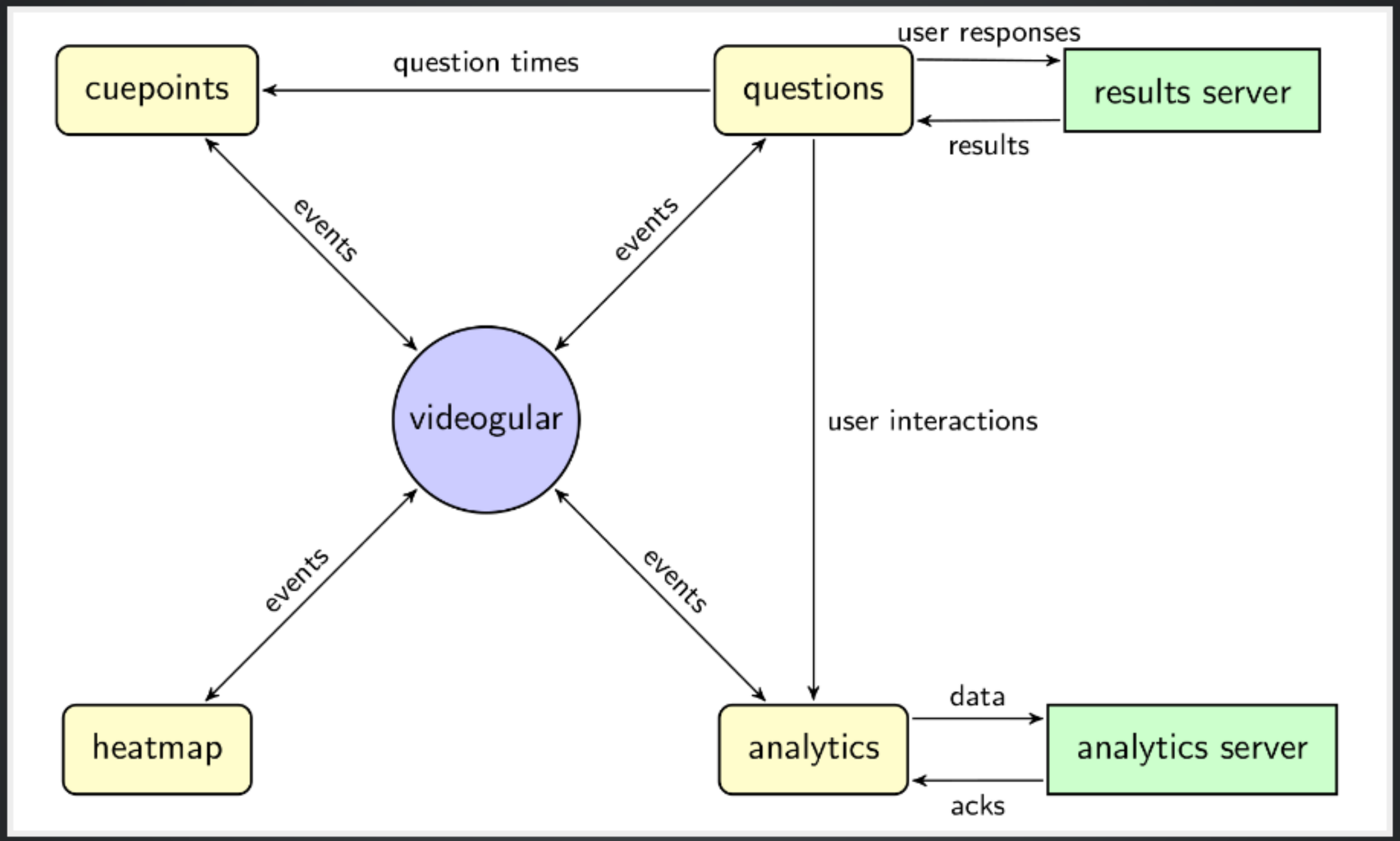
- A new version of Synote is planned
- New opportunities for Synote
  - After lecture review
  - Live in Lectures
  - MOOCs

PROJECT PROCESS

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

WHAT DID WE ACTUALLY MAKE?

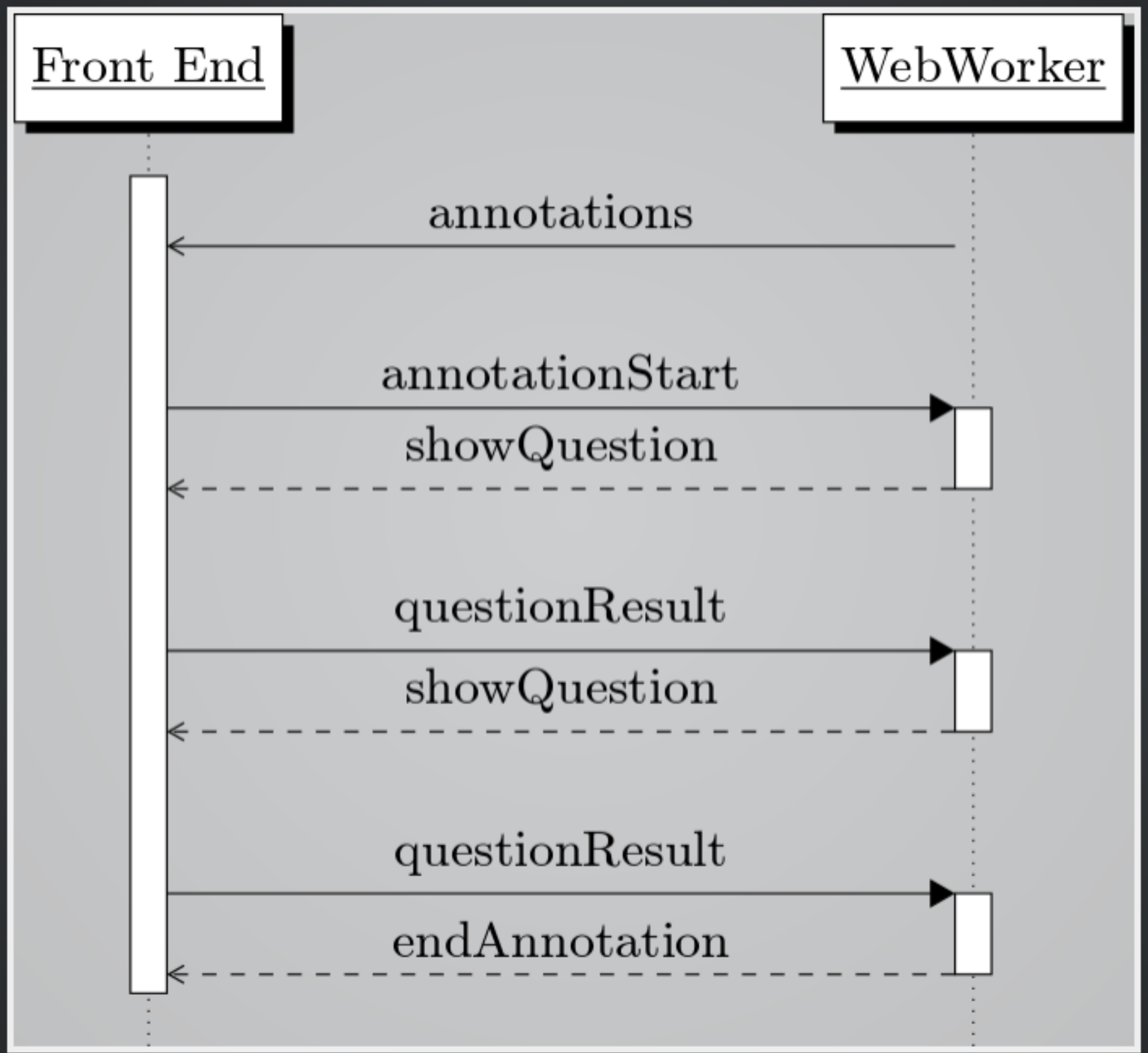
- Videogular Plugins
  - Questions
  - Cuepoints
  - Analytics
  - Heatmap
- Authoring Tool
- Example Implementations
  - Analytics server
  - Results Server
- Demonstration website for all of the above


cuepoints
question times
questions
user responses
results server
results
events
events
videogular
user interactions
events
events
heatmap
analytics
data
analytics server
acks

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'


Front End
WebWorker
annotations
annotationStart
showQuestion
questionResult
showQuestion
questionResult
endAnnotation

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