

# Analytics of student interactions with electronic feedback using UQmarkup

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## Overview:

### *3 components of UQMarkUp system*

#### Administration interface

automated upload of submissions from LMS, distribution to markers, moderation and tracking of workflow

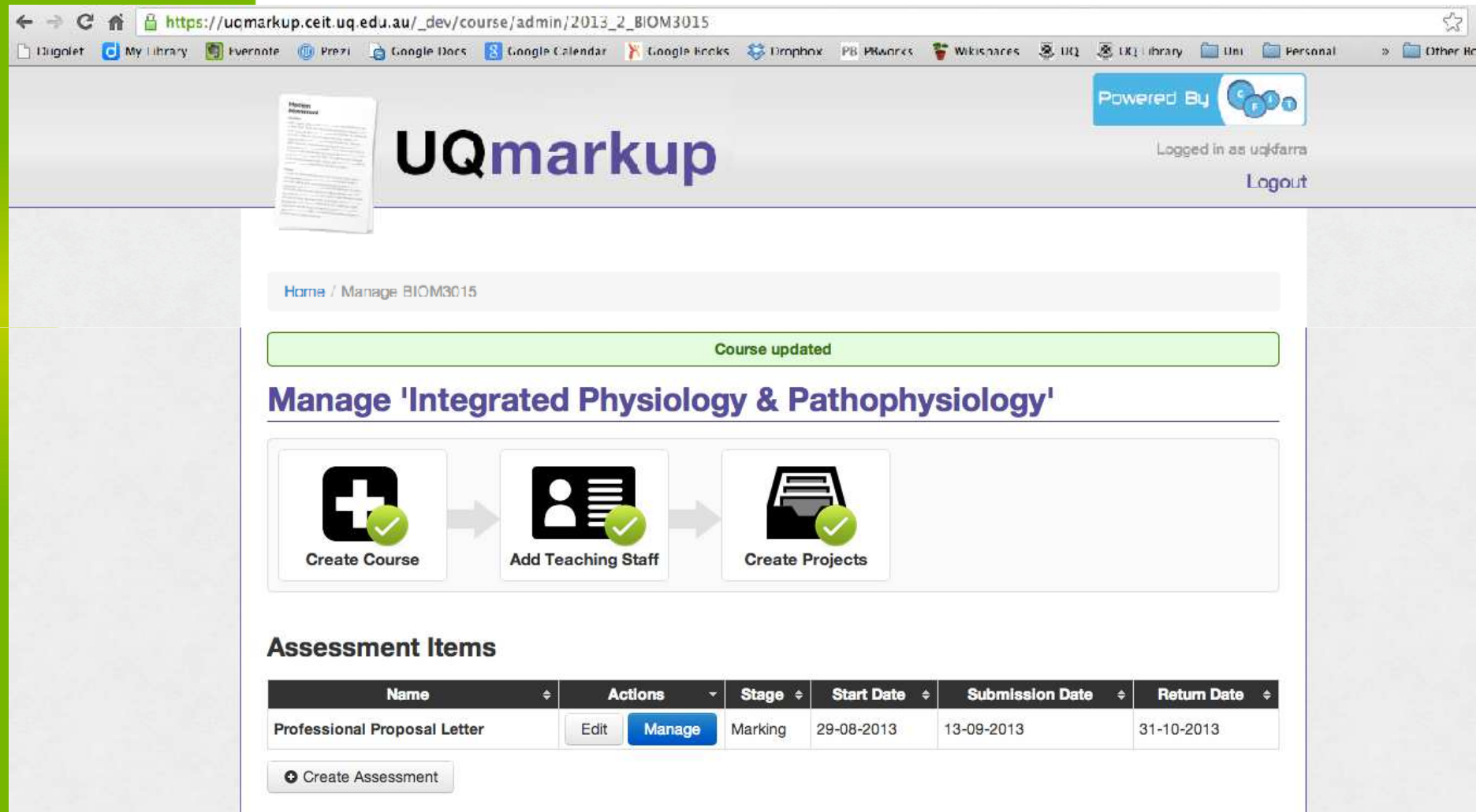
#### iPad marking application

easy-to-use app to provide in situ audio, hand-drawn and typed annotations, and to allow marking using criteria rubrics

#### Feedback viewer

allows students to view and interact with feedback on any web browser

# Administration Interface: *Organising the course*



Browser address bar: [https://ucmarkup.ceit.uq.edu.au/\\_dev/course/admin/2013\\_2\\_BIOM3015](https://ucmarkup.ceit.uq.edu.au/_dev/course/admin/2013_2_BIOM3015)

Navigation: Home / Manage BIOM3015

Course updated

## Manage 'Integrated Physiology & Pathophysiology'

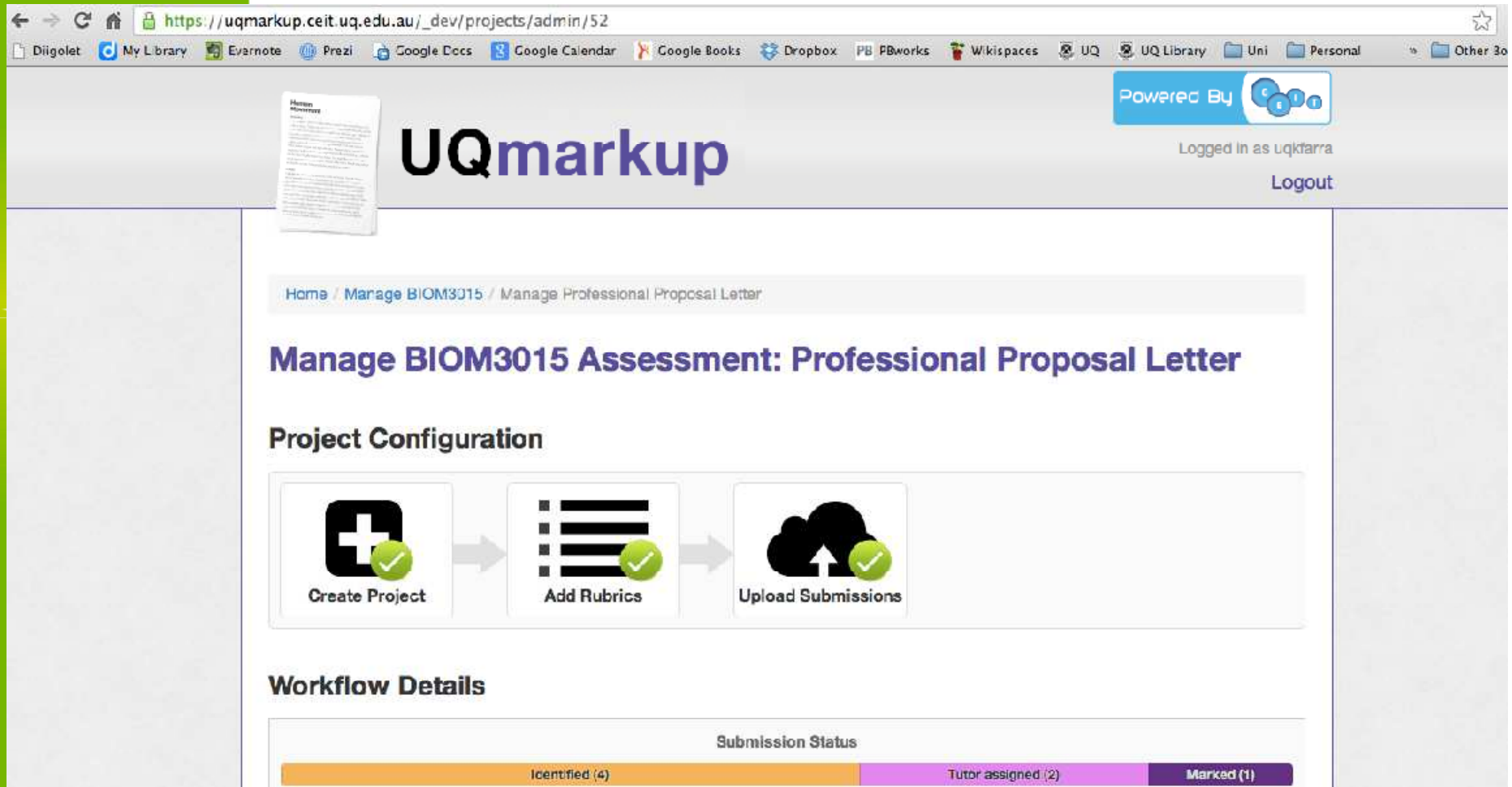
Workflow: Create Course → Add Teaching Staff → Create Projects

### Assessment Items


Name	Actions	Stage	Start Date	Submission Date	Return Date
Professional Proposal Letter	Edit <b>Manage</b>	Marking	29-08-2013	13-09-2013	31-10-2013

[+ Create Assessment](#)

# Administration Interface: *Setting up assignments*



The screenshot shows a web browser window with the URL [https://uqmarkup.ceit.uq.edu.au/\\_dev/projects/admin/52](https://uqmarkup.ceit.uq.edu.au/_dev/projects/admin/52). The browser's address bar and tabs are visible at the top. The main content area features the UQmarkup logo and a navigation breadcrumb: Home / Manage BIOM3015 / Manage Professional Proposal Letter. Below the breadcrumb is the title "Manage BIOM3015 Assessment: Professional Proposal Letter". A "Project Configuration" section contains three steps: "Create Project" (with a plus icon and a green checkmark), "Add Rubrics" (with a list icon and a green checkmark), and "Upload Submissions" (with a cloud upload icon and a green checkmark). Below this is a "Workflow Details" section with a "Submission Status" bar. The bar is divided into three segments: "Identified (4)" in orange, "Tutor assigned (2)" in purple, and "Marked (1)" in dark purple.




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Home / [Manage BIOM3015](#) / [Manage Professional Proposal Letter](#)

## Manage BIOM3015 Assessment: Professional Proposal Letter

### Project Configuration

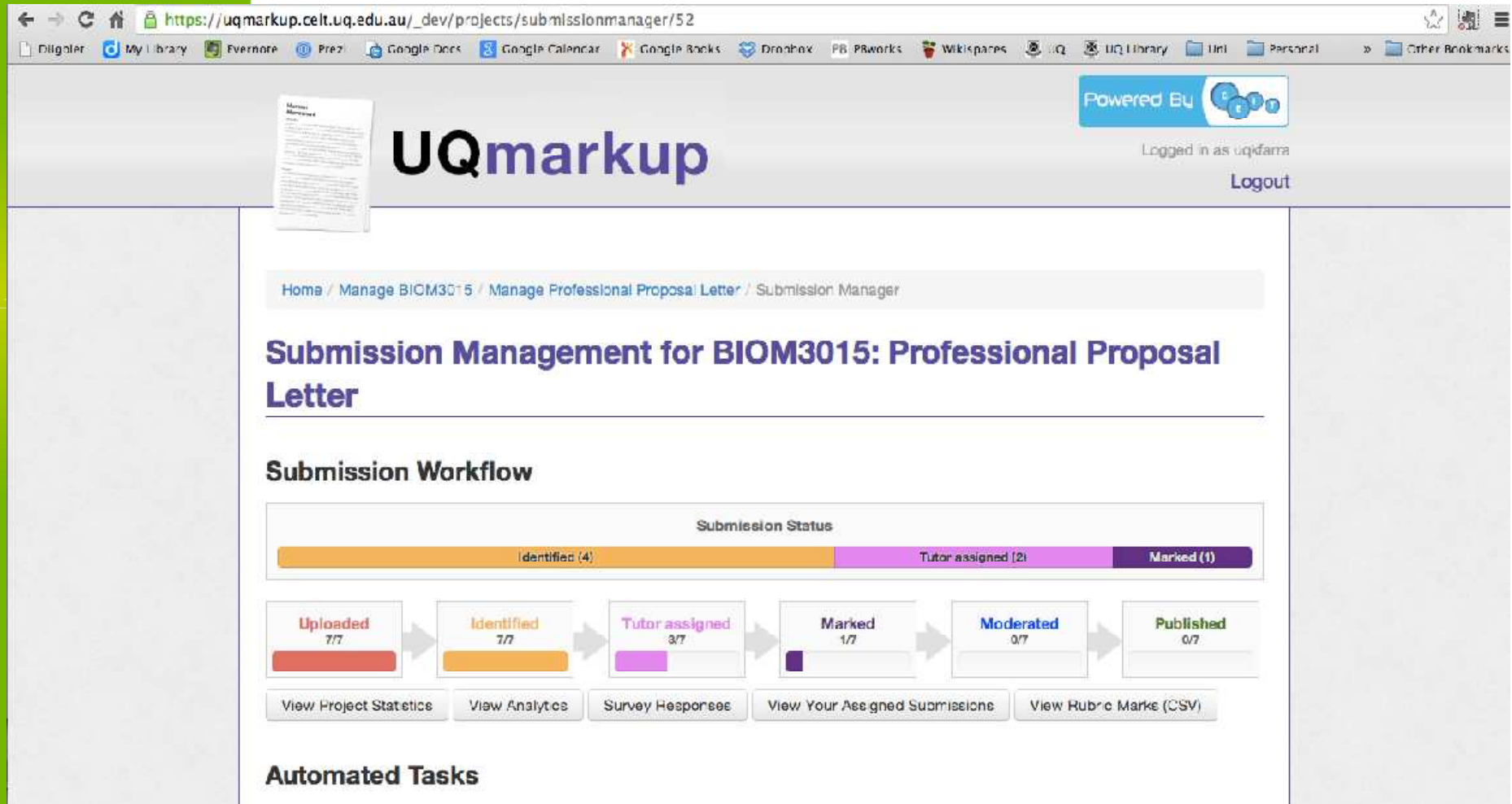
Create Project    Add Rubrics    Upload Submissions

### Workflow Details

Submission Status

Identified (4)	Tutor assigned (2)	Marked (1)
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# Managing workflow for individual assessment items



The screenshot shows a web browser window displaying the UQmarkup submission manager interface. The browser address bar shows the URL: [https://uqmarkup.celt.uq.edu.au/\\_dev/projects/submissionmanager/52](https://uqmarkup.celt.uq.edu.au/_dev/projects/submissionmanager/52). The page header includes the UQmarkup logo, a "Powered By" badge, and a "Logout" link. The main content area displays the title "Submission Management for BIOM3015: Professional Proposal Letter" and a "Submission Workflow" section. The workflow is represented by a horizontal bar and a sequence of steps: Uploaded (1/7), Identified (1/7), Tutor assigned (3/7), Marked (1/7), Moderated (0/7), and Published (0/7). Below the workflow, there are buttons for "View Project Statistics", "View Analytics", "Survey Responses", "View Your Assigned Submissions", and "View Rubric Marks (CSV)".

Home / Manage BIOM3015 / Manage Professional Proposal Letter / Submission Manager

## Submission Management for BIOM3015: Professional Proposal Letter

### Submission Workflow

Submission Status

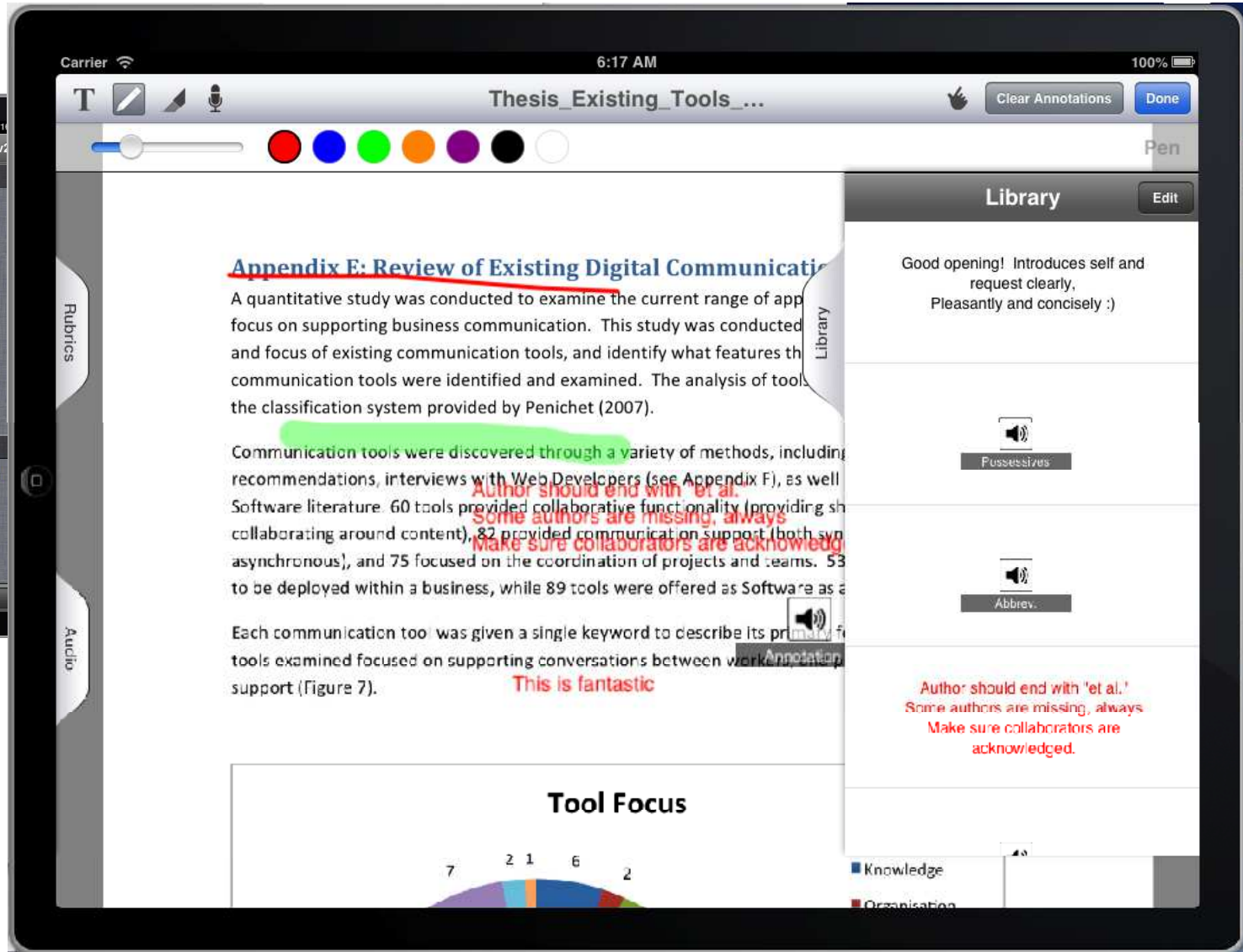
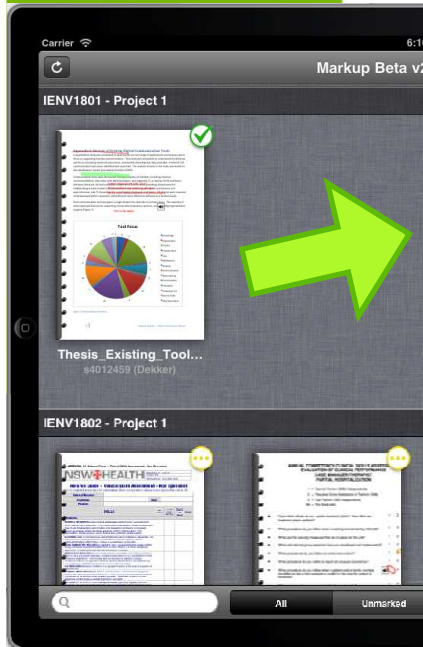
Identified (4)	Tutor assigned (2)	Marked (1)
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Uploaded 1/7 → Identified 1/7 → Tutor assigned 3/7 → Marked 1/7 → Moderated 0/7 → Published 0/7

[View Project Statistics](#) [View Analytics](#) [Survey Responses](#) [View Your Assigned Submissions](#) [View Rubric Marks \(CSV\)](#)

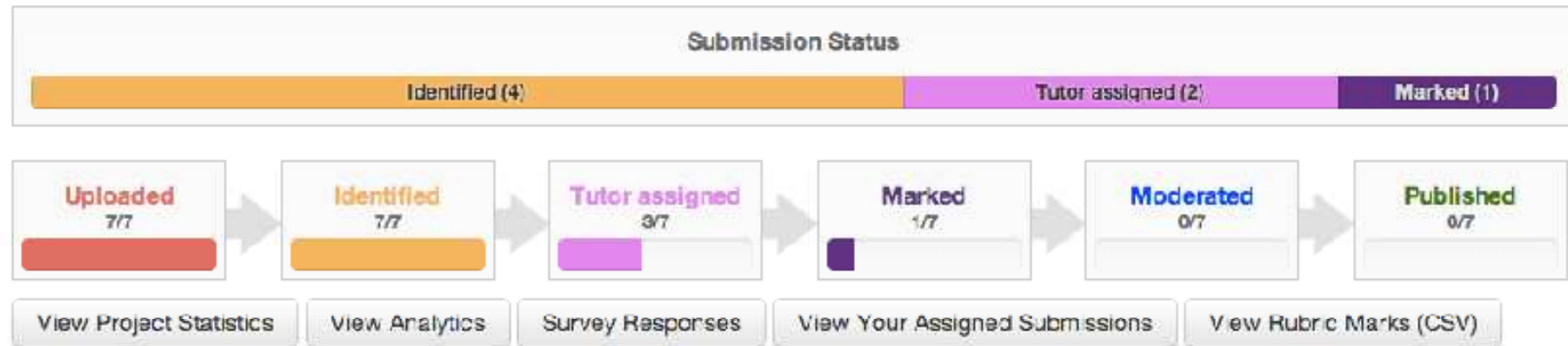
### Automated Tasks

# iPad Marking App



# Workflow: *moderation and publication*

## Submission Workflow



# Feedback analytics

## Usage logs

Records all interactions with each document e.g.

- each time marker opens, inserts item and closes

- each time student opens, scrolls, clicks and closes

## Multiple levels of analysis

Individual student/marker, Groups of students

Whole course cohorts/marking teams, Project level analytics

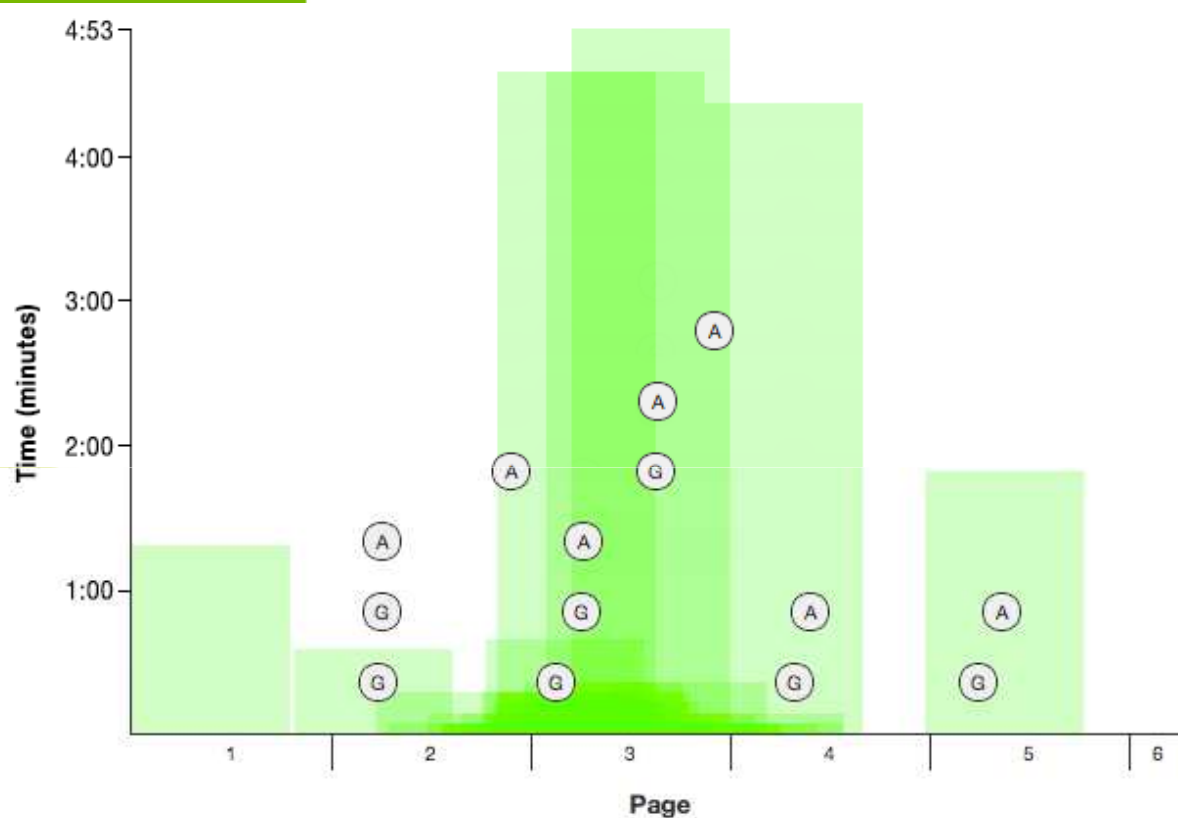
## Adoption by markers & students (benchmarking)

Which feedback modalities are markers using? How much feedback are markers providing? How long is marking taking?

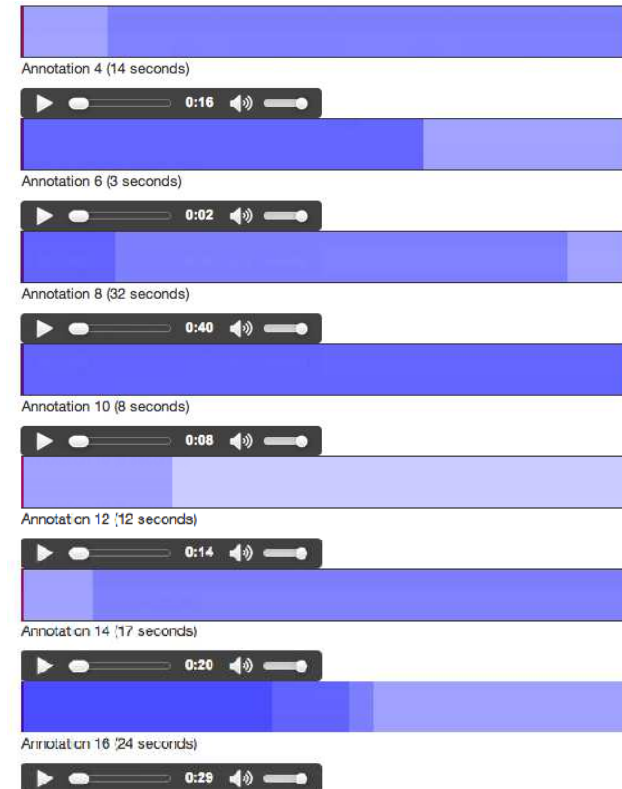
Are students viewing/interacting with feedback? When? For how long?



# Individual student analytics

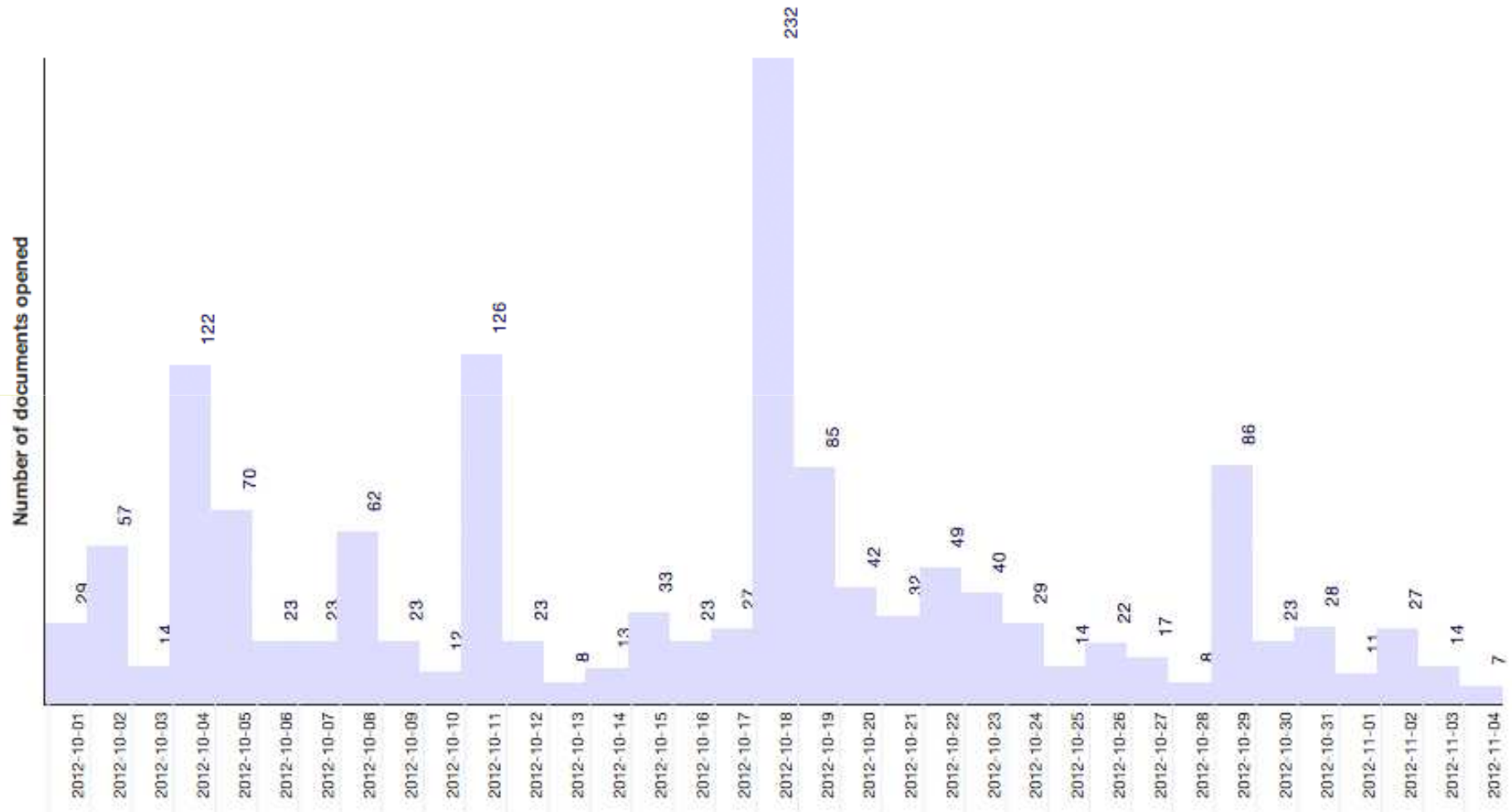


How long a student viewed each page in their marked document during a 17-minute viewing.



How a student interacted with each audio annotation within a marked document

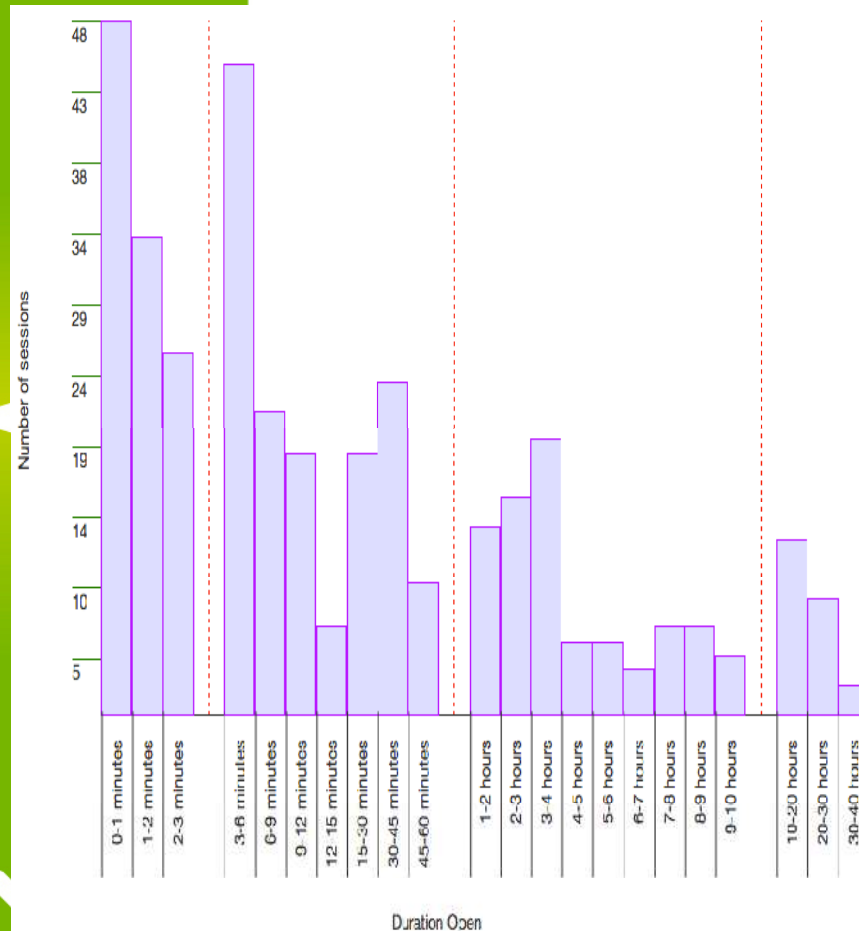
## Timely feedback: *when are students accessing feedback?*



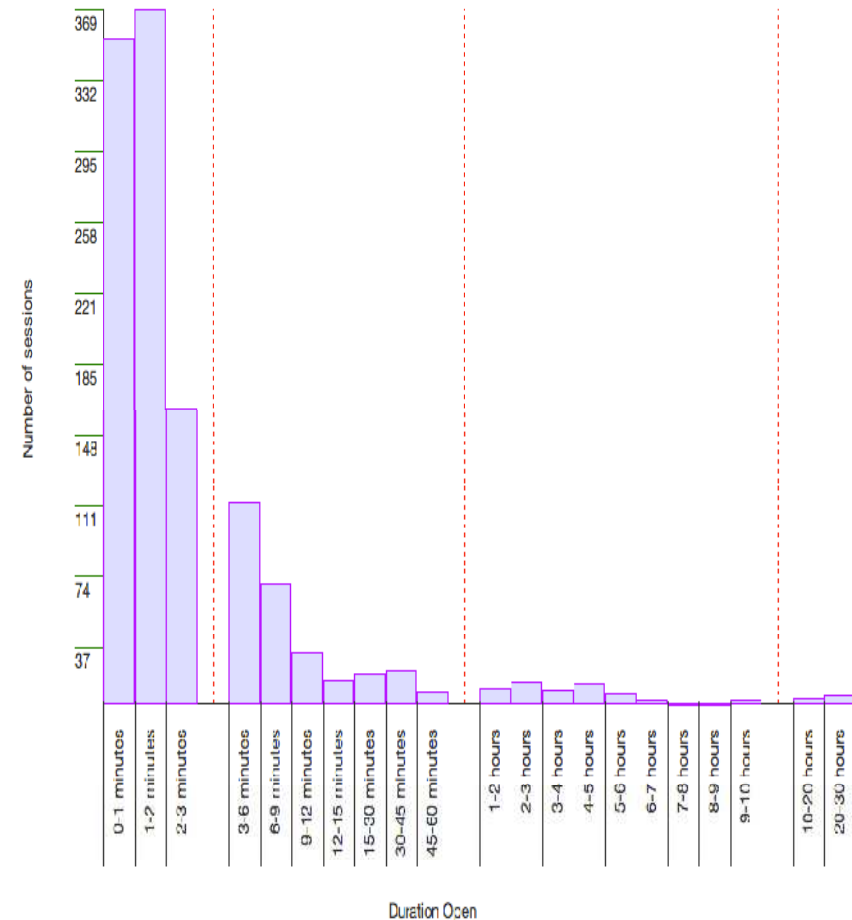
The frequency (number of marked documents) students opened each day.

# How long are students looking at their feedback?

## Draft essay



## Laboratory report

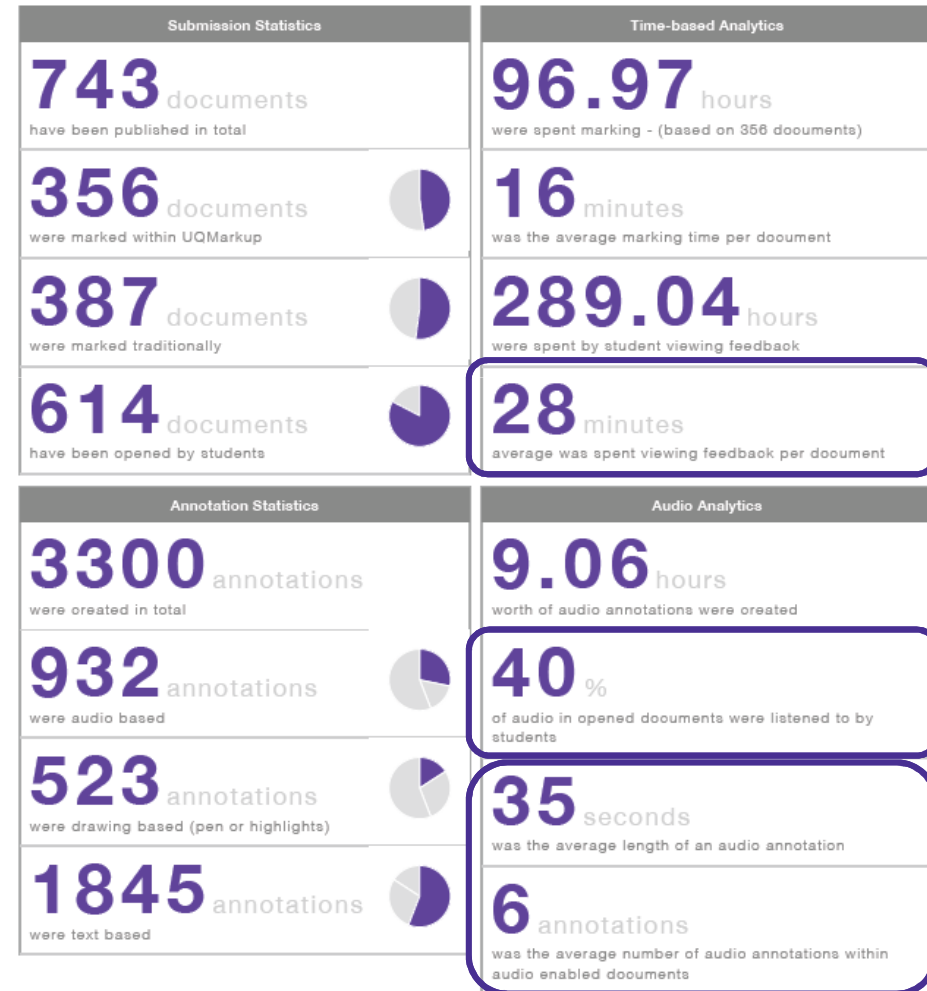
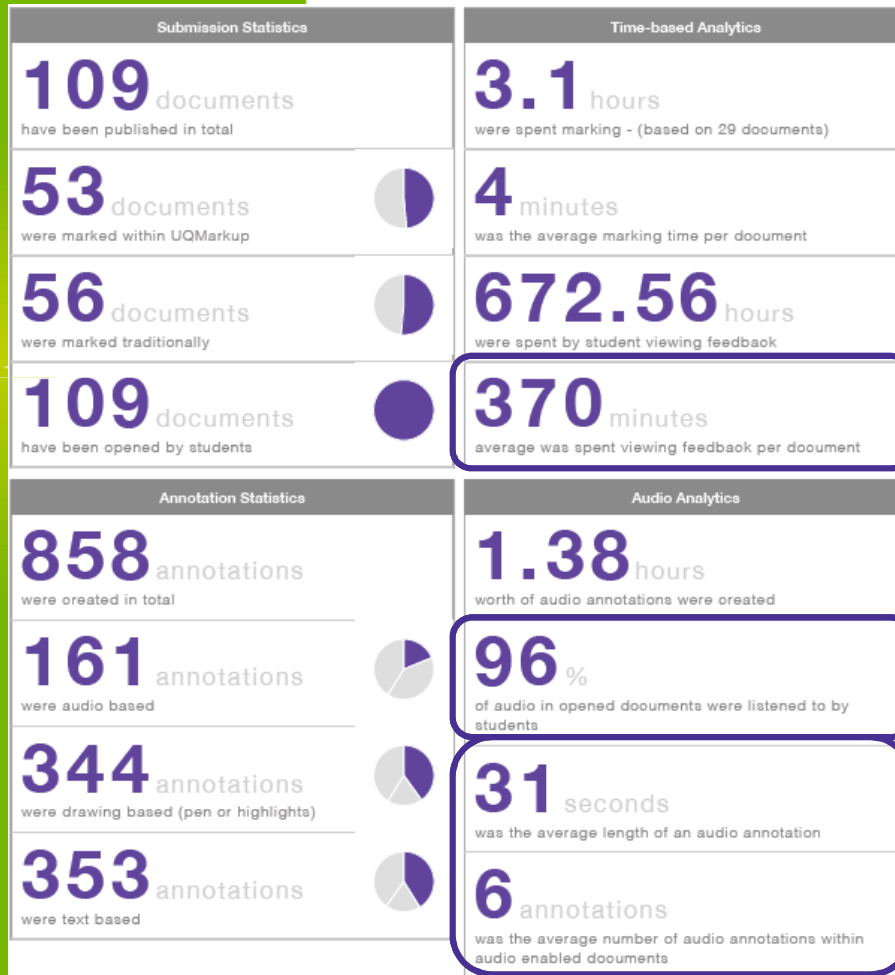


The frequency (number of sessions) with which marked assessment files were opened by students for different durations.

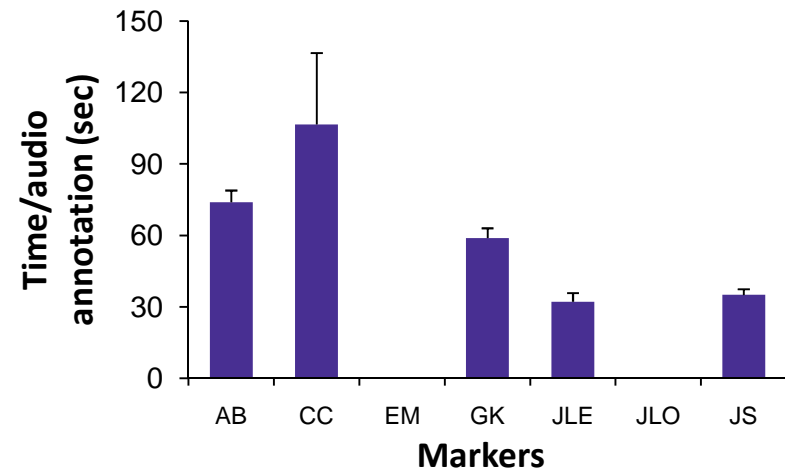
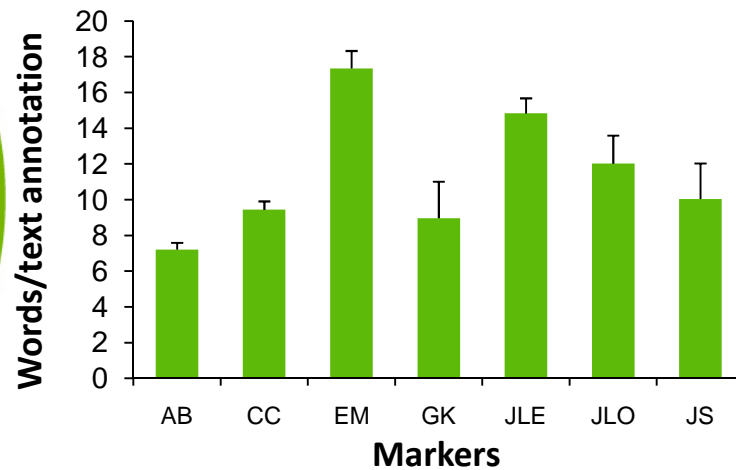
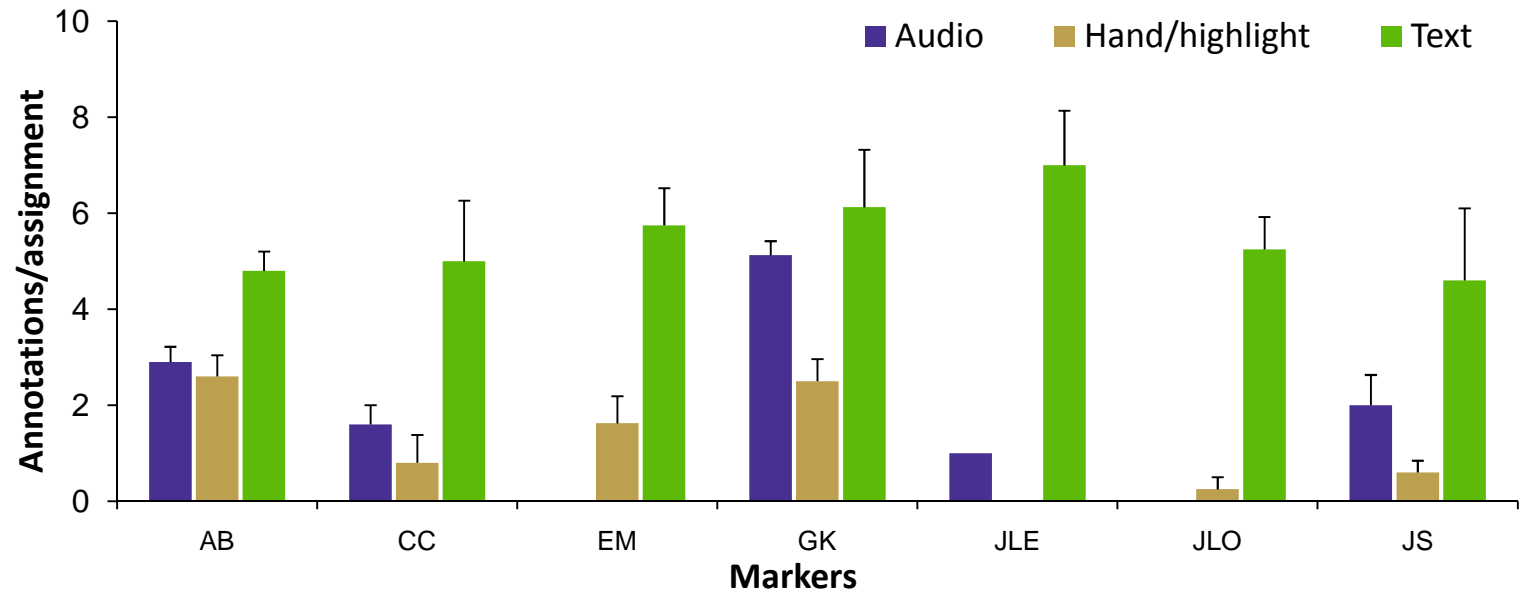
# Course & Project level analytics

## Draft essay

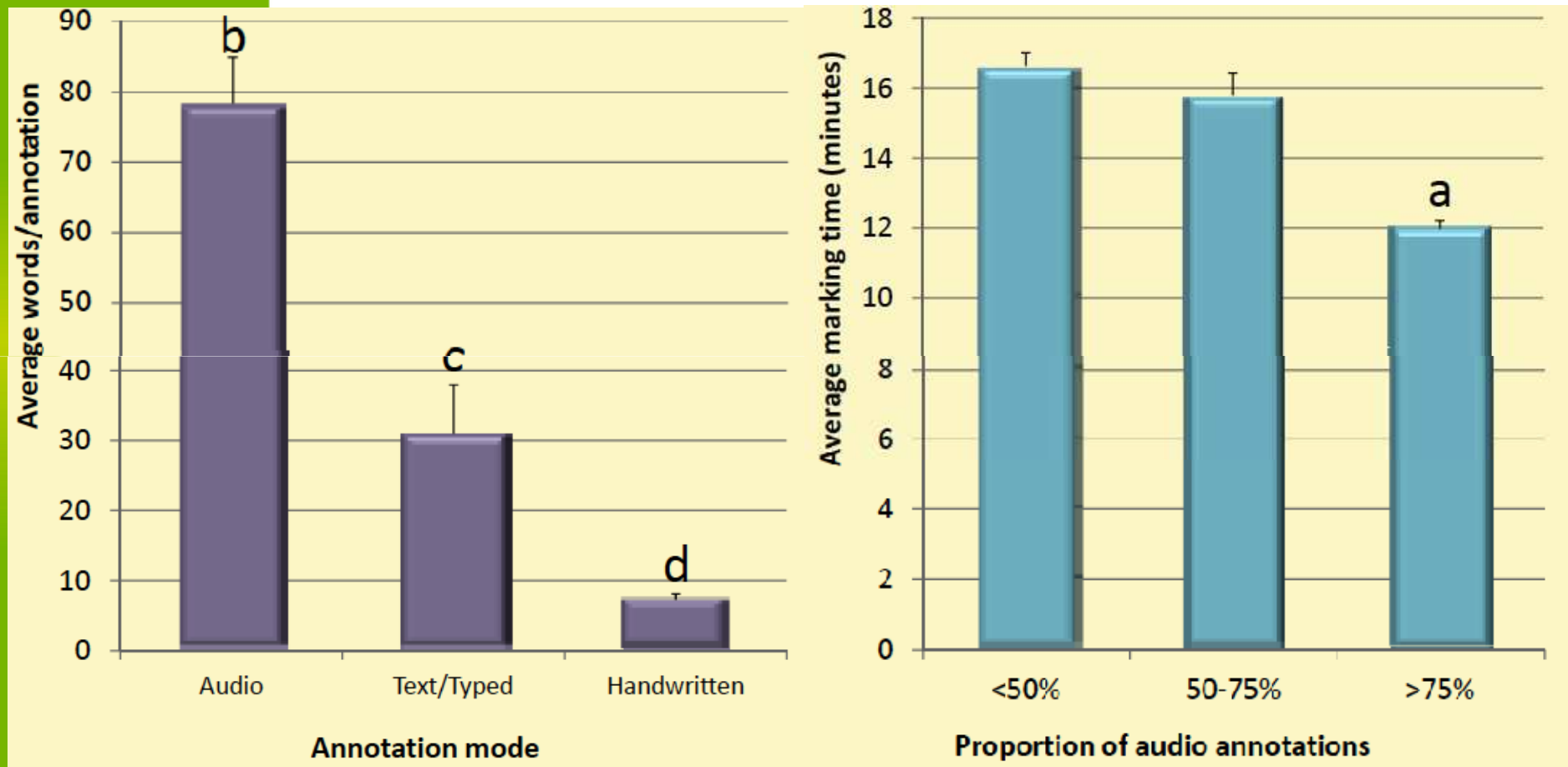
## Lab report



# Adoption: are markers using the different feedback modalities?



# Feedback richness & efficiency



# Current research questions

## Feedback provision

Quality of feedback: more words = richer?

Types of feedback: what do markers comment on? What are the variations in 'voice' and how does this relate to student engagement with feedback?

## Use of feedback by students

Associations with different levels of academic performance and changes in performance

## Impact of feedback placement and assessment type

# Acknowledgements & contact details

## Funding

School of Biomedical Sciences

UQ Faculty of Science

Teaching and Learning Grant

Thank you to our students and tutors

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<http://uqmarkup.ceit.uq.edu.au/blog/>