Canvas API

Overview of useful Canvas API endpoints for the back-end of the analytics app.

Name URL Description Role in Screenshots				
Name	UKL	Description	application	Screenshots
Quiz statistics	https:// canvas instruct ure. com /doc /api /quiz_s tatistics .html	Calculating mean/median for entire student cohort	Quiz graphs, quiz completed statistics	A QuizStatistics SubmissionStatistics object looks like: // Generic statistics for all submissions for a quiz. // The number of students who have taken the quiz. // The number of students who have taken the quiz. // The mean of the student submission scores. // Score average*: 4.333333333333, // The highest submission score. // The lowest submission score. // The lowest submission score. // Standard deviation of the submission scores. // Standard deviation of the submission scores. // Standard deviation of the submission scores, // Standard deviation of the submission scores, // Standard deviation of the submission scores, each key is the percentile // carge between 0 and 100%) while the value is the number of students who // received that score. // Scores*: ("Soil*:], 36: "10: "1). // Scores*: ("Soil*:], 36: "10: "1). // The mean of the number of questions answered correctly by each student. // Incorrect_count_average*: 3.060606060607, // The mean of the number of questions answered incorrectly by each student. // Incorrect_count_average*: 5, // The average ties post by students while taking the quiz. // Ouration_average*: 42.333333333 }
Live Events	https:// canvas . instruct ure. com /doc /api /file. data_s ervice_ introdu ction. html	Tracking clicks on particular links /buttons for lectures /tutorials /modules	Number of clicks on lectures /tutorials /modules links	
Assignm ent score statistics	https:// canvas . instruct ure. com /doc /api /assign ments. html	Calculate assignment scores for individual students	Assignment statistics for the student, assignment graph	A Score Statistic object looks like: // Used by Assignment model { // Min score % Min score % Min score % max': 18, // Man score % max': 6 } // Man score % mean': 6 }
Module - completi on requirem ent	https:// canvas . instruct ure. com /doc /api /modul es.html	Determine the number of tasks completed (i. e. green tick in the second image)	Lectures /tutorials /modules completed	A CompletionRequirement object looks like: { // one of 'must_viev', 'must_submit', 'must_contribute', 'min_score', // 'must_mark_done' // imin_score required to complete (only present when type 'min_score') // imin_must core required to complete (only present when type 'min_score') // imin_score': 100, // whether the calling user has met this requirement (optional; present only if // the callier is a student or if the optional parameter 'student_id' is // included) *completer*: true Projects Complete All Items Teams, Project and Supervisors
				Project Details
				Creative Learning Units Marked as done
				Genyus Network - Accessible Interface Marked as done
				Genyus Network - Facebook Data Migration Mark as done
				Berry Street Mark as done

Analytics https:// Get course Assignment Example Request: graphs (for - coursecanvas level curl https://<canvas>/api/v1/courses/<course_id>/analytics/assignments \
 -H 'Authorization: Bearer <token>' group level assignment data - to show statistics) assignm instruct subject Example Response: ent data ure. com averages/top /doc quartile etc. "massignment_id": 1224,
"tile": "Assignment ",
"tile": "Assignment ",
"due_att: "2012.01:25122:00:00-07:00",
"unlock att: "2012.01:25122:00:00-07:00",
"mis score": 10;
"unlock att: "2012.01:2512:00:00
"tile": 0.15",
"late": 0.15",
"late": 0.15",
"late": 0.15",
"late": 0.15",
"missing": 0.1,
"late": 0.15",
"late": 0.15", /api /analyti cs.html "sasignment_id": 1225,
"title": "Assignment 2",
"points_possible": 15,
"due_at": "2012-01-2010;
"due_at": "2012-01-2010;
"due_at": "2012-01-2010;
"due_at": "2012-01-2010;
"due_at": "aniscore": 8,
"median": 8,
"fints_quartile": 8,
"third_quartile": 8,
"third_quartile": 8,
"third_quartile": 8,
"total": 2.52,
"total": 2.53,
"total": 2.75

} Analytics https:// Returns a list Assignment Example Request: statistics for - user in canvas of assignments the student curl https://<canvas>/api/v1/courses/<course_id>/analytics/users/<user_id>/assignments \
 -H 'Authorization: Bearer <token>' а course instruct for the course level ure. sorted by due Example Response: date. For each assignm com /doc assignment ent data returns basic /api /analyti assignment cs.html information, the grade breakdown (including the student's actual grade),],
"submission": {
"posted_at": "2012-01-23720:00:00-07:00",
"submitted_at": "2012-01-22722:00:00-07:00",
} score": 10 and the basic submission information for the student's "assignment id": 1235,
"title": "Assignment 2",
"points_possible": 15,
"Gow_at; "2012-01-26122:00:00-07:00",
"muted": True,
"min_scone": 8,
"median": 8,
"median": 8,
"module_ids": 8,
"module_ids": 8, submission if it exists 1 "submission": { "posted_at": null, "submitted_at": "2012-01-22T22:00:00-07:00" User https:// Amount of Time spent A PageView object looks like: page canvas time user on a page, // The record of a user page view access in Canwas
{
 // A UUID representing the page view. This is also the unique request id
 *"id": "3e24870e-838-0318-516-0283386186f",
 // If the request is from an API request, the app that generated the access
 // If the URL requested
 *"url": "https://canwas.instructure.com/conversations",
 // The URL requested
 *"url": "https://canwas.instructure.com/conversations",
 // The URL requested
 *"url": "https://canwas.instructure.com/conversations",
 // The valis controller that handled the request
 *"context_type": "Course",
 // The valis controller that handled the request
 *"controllered": "discussions",
 // The valis action that handled the request
 *"controllered": "discussions",
 // This field is deprecated, and will always be false
 *"controllered" false,
 flow long the user spent on the page, in seconds
 *"interaction.seconds": 7.21,
 // When the request was made
 *"created_at": "2013-10-0119-49-472",
 // A flag indicating whether the request was user-initiated, or automatic (such
 // sa an AJAX call)
 // How long the response took to render, in seconds
 *"nender_time": 0.306,
 // How long the response took to render, in seconds
 *"render_time": 0.306,
 // The user-agent off the browser or program that made the request
 "user_agent": "Mortifula/s.0 (Macintosh; Intel Mac OS X 10_8_S) AppleMebKit/S38.30.1 (KMTML, like Gecko) Version/6.0.5 Safari/S36.30.1",
 // True if the request counted as participating, such as submitting homework
 "participated": Gaits,
 // True if the request counted as participating, such as submitting homework
 "participated": Gaits,
 // True if the request of the request
 *"rendet_ip": 173.134.46.07:1",
 // The page view links to define the relationships
 *"links": ("ser":1234, "account":1234)
} // The record of a user page view access in Canvas views spends on a lecture instruct page minutes ure. watched com /doc /api /users. html