# Perusall

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# What is Perusall?

A web app that is built to work with students on socially annotating reading and listening assignments.

# Why use Perusall?

Know how much your students actually engage with the assignment

Case study using a similar tool for social annotation learning: https://www.sciencedirect.com/science/article/pii/S10967516 12000802?ref=pdf\_download&fr=RR-9&rr=81f4db5fb8f04dea

## **Benefits of Perusall**

Allows teachers to help students understand content material by gauging how long they spent on the readings/content material

- Grade passback
- Discussion type comments
- Annotating code
- Students can answer other students
- Automatically detects quality and engagement on the assignments
- Group Creation
- Anonymous commenting
- Private notes

#### Auto grading options

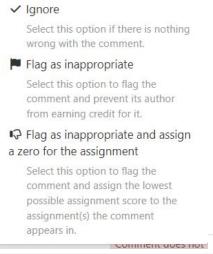


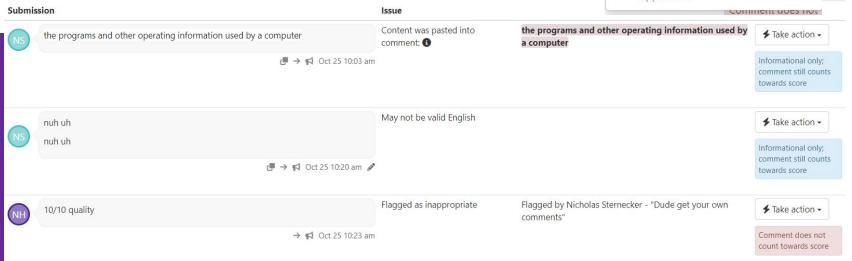
#### Specific assignment grade breakdown

Grade K-State CIS 642\_643 Textbook - Pages 1-11, due October 25, 2023 11:30 am CDT

				10
Engagement metrics	Comments submitted			
Metric	Details		Score for this metric	
Comment content	11 comments submitted (11 before deadline, 69 words, average 6.27 words per comment)			= <b>0%</b> out of <b>0%</b>
Opening assignment	Opened assignment 14 times	1/3 of max possible score each time assignment is opened before the final deadline	$14 \times \frac{1}{3} \times 20\%$	= 20.0% out of 20%
Reading to the end	Read 100% of content before the final deadline		$100\%\times40\%$	= <b>40.0%</b> out of <b>40%</b>
Active engagement time	25.18 minutes of active time	1/10 of max possible score for each minute of active time spent before the final deadline	$25.18 \times \frac{1}{10} \times 30\%$	= 30.0% out of 30%
Getting responses	4 comments that elicited a response	1/3 of max possible score for each comment before the final deadline that elicits a response	$4\times\frac{1}{3}\times30\%$	= 30.0% out of 30%
Upvoting	2 comments that were upvoted 1 upvote made on others' comments	1/5 of max possible score for each upvote received before the final_deadline; 1/5 of max possible score for each upvote given before the final_deadline	$(2\times\frac{1}{5}+1\times\frac{1}{5})\times30\%$	= 18.0% out of 30%
Quizzes	0 questions answered correctly			
Total				138.0%

Audit of reported inappropriate comments





# Perusall's features while state != "G": if state != "G": if state != "G": total\_insert s = input("t

Code annotations

```
otal inserted = 0
drink cost = 1.5
if total inserted == 0:
   print("Amount inserted ${:..2f}".format(total inserted))
       total inserted = 0
       s = input("type start, or exit: ")
       if s == "Start" or s == "start":
       elif s == "Exit" or s == "exit":
            state = "G"
       else:
            continue
   elif state == "B":
       insert = input("Insert an amount: ")
       if insert == "refund" or insert == "Refund":
            state = "E"
       elif float(insert) >= 0:
           print("Amount inserted ${:..2f}.".format(float(insert)))
           total inserted += float(insert)
       else:
            print("invalid amount")
       if total inserted >= drink cost:
```

### **Problems with Perusall**

- Students can flag other comments as inappropriate content
- No editing of content
- Little assignment creation tools within Perusall
- Name of assignment in Perusall and Canvas must be the same
- Quality and engagement can be spoofed

# **API Calls**

```
"_id": "MNZtvxJYmY5GQ4w6z",
"firstName": "Nicholas",
"lastName": "Sternecker",
"email": "nsternecker@ksu.edu"
"_id": "QrALMiztKSx3YzDTv",
"firstName": "Student",
"lastName": "Gibson",
"email": "gibson.williams2020@gmail.com"
"_id": "ba8FE5bnAZtB6x254",
"firstName": "Nate",
"lastName": "Lillich",
"email": "nlillich@ksu.edu"
"_id": "jdGGwy2z58RCrmQCh",
"firstName": "Nathan",
"lastName": "Herscovici",
"email": "nherscovici@ksu.edu"
"_id": "yj6ngEo5ybTevTDag",
"firstName": "Gibson",
"lastName": "Williams",
"email": "gibbs060502@ksu.edu"
```

#### **User Collection**

```
"_id": "QrALMiztKSx3YzDTv",

"firstName": "Student",

"lastName": "Gibson",

"email": "gibson.williams2020@gmail.com",

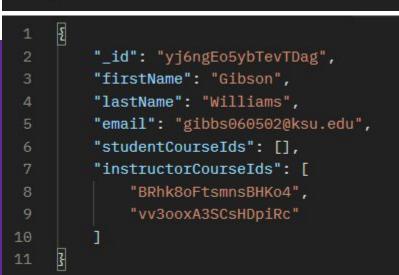
"studentCourseIds": [

"vv3ooxA3SCsHDpiRc"

],

"instructorCourseIds": []
```

#### **Individual Student Collection**



#### Individual Instructor Collection

```
"_id": "jdGGwy2z58RCrmQCh",
"firstName": "Nathan",
"lastName": "Herscovici",
"email": "nherscovici@ksu.edu",
"studentCourseIds": [
"BRhk8oFtsmnsBHKo4"
"],
"instructorCourseIds": []
```

Collection of a student then collection of groups. The IDs match showing that student is in the group



Collection of annotations from a specific assignment

#### Student features

- Textbook functionality, with ability to take notes and highlight sections either for clarifications or questions
- Ability to see homework assignments with due dates, as well as a summary of what you have done on the assignment so far
- Grade tab with assignment grades, assuming they have been released by the professor. Comments per assignment can be downloaded here
- A global course note tab gives all notes for the course and can be organized by date
- Can be connected to personal calendar
- Text in assignments can be highlighted to ask a question or leave a clarification
- Annotations can be left on figures/images (or anywhere on the page) so you are not limited to leaving comments on text
- Comments/questions can be seen and answered by other students, as well as teachers
- Comments/questions can be upvoted, starred, and replied to by other students or teachers
- Citations can be generated for a specific portion of the textbook
- There is an announcement and General discussion board similar to canvas
- There is the ability to privately message other students or teachers, which can be disabled by the teacher
- There is the ability to create a private group of students
- Notes and comments stay with the student as long as they are using Perusall, so they can come back to notes and comments once they are out of the class
- There is a hashtag section that allows students to tag them in comments so it will pop up in those hashtags
- Flagging a comment/question as inappropriate/plagiarism just removes it and sends the offending comment to the teachers along with some of the flagger's reasoning
- When sent through canvas only allows the student to see and complete the given assignment offered

#### **Teacher Features**

- Teachers have all the same functionality of students with the addition of:
  - Gradebook for viewing and editing students grades
  - Access to settings
  - Ability to export data
- Creating new assignments
  - Can add specific content to be assigned
  - Set deadlines for assignments and make assignments visible at a certain date
  - Add special instructions for an assignment
  - Assign assignments to entire class, specific students, specific groups, or entire class excluding certain students
  - Option to have anonymous posting
    - Ability to let students decide if their post is anonymous
    - Require all comments to be anonymous
      - Require all posts to be public
  - Set assignments to optional
  - Send email reminders if an assignment is not completed
  - Use custom settings for grading an assignment or the course grading settings
- Gradebook
- Students
- Export Data

