

Discover Your Students' Writing or Coding Journey

Discover a free, online editor to see your students effort and address the issue of overuse of AI in your course.

Date: 09-20-2023

Time: 10 AM to 11 AM CST

Location: Online

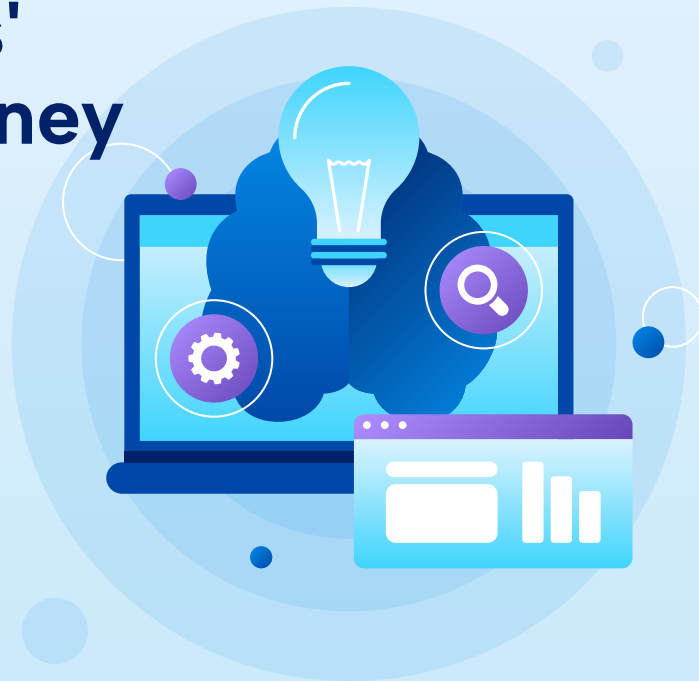


Discover Your Students' Writing or Coding Journey

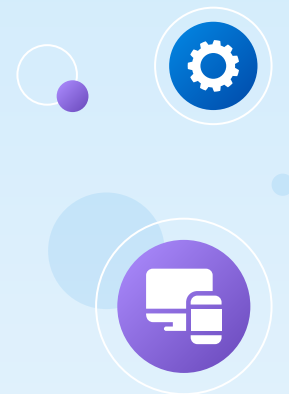
Discover a free, online editor to see your students effort and address the issue of overuse of AI in your course.

We will start shortly....

Workshop Agenda: <https://bit.ly/effortworkshop>



Some Highlights of Process Feedback

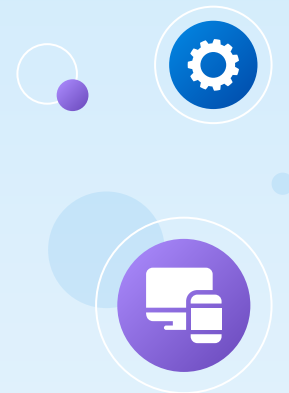


Some Highlights of Process Feedback

01

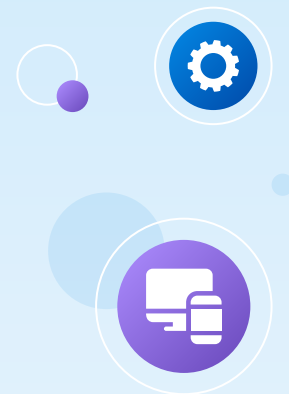
It is a new **online editor or compiler**

→ But one that **captures and displays your students' efforts**



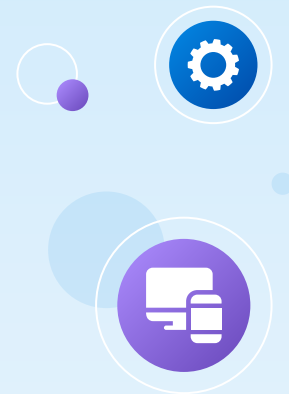
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- 02 **Ready** for educators to start using



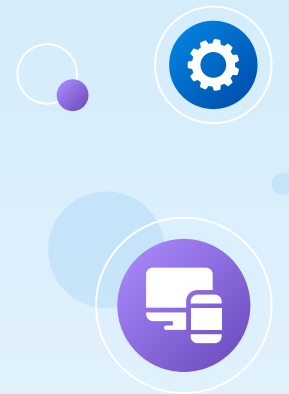
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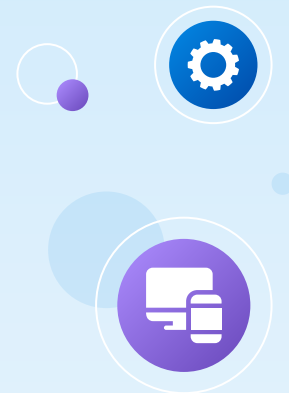
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→ Data is stored locally

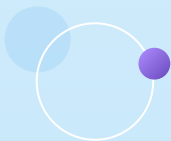


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- 05 A full research **paper** is available at arXiv
 - "Thinking beyond chatbots' threat to education: Visualizations to elucidate the writing and coding process"
 - Under review at a peer-reviewed journal

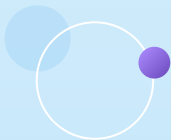


Process Feedback's history and vision



Process Feedback's history and vision

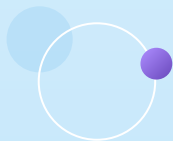
- Invented in April, 2023
 - It took around four months to release the first version



Process Feedback's history and vision

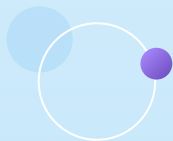


- Invented in April, 2023
 - It took around four months to release the first version
- Process Feedback would have been a non-profit
 - Registering a non-profit is more complicated than a for-profit



Process Feedback's history and vision



- Invented in April, 2023
 - It took around four months to release the first version
 - Process Feedback would have been a non-profit
 - Registering a non-profit is more complicated than a for-profit
 - We aim to keep the tool free forever
 - Vision: Inform all educators about process-aware teaching & learning
 - Vision: Primary objective is service and empowerment, not revenue
 - Vision: High global accessibility
- 

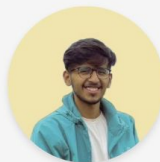
Current Team



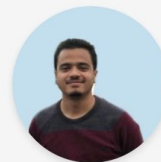
Badri Adhikari



Milan Adhikari



Rasik Nepal



Nitesh Kafle



Nilima Kafle



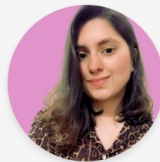
Sameep Dhakal



Chirayu Prasai



Arpan Paudel



Nirala Lamichhane



Emma Scally



Prabhat Timsina



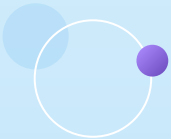
Aayusha Singh



Volunteers, software engineers, and interns from Nepal and USA

Current Usage

- It was tested this summer in several courses
 - 5 professors/courses and 100+ students used it
 - Java & Python Programming at University of Missouri–St. Louis
 - A communication course at Arkansas State University
 - Python Programming at Maryville University

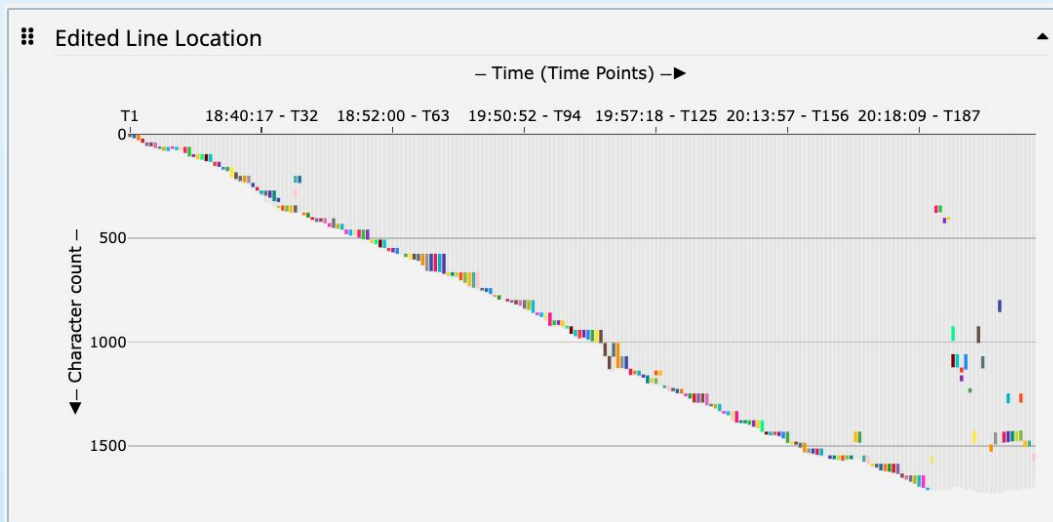


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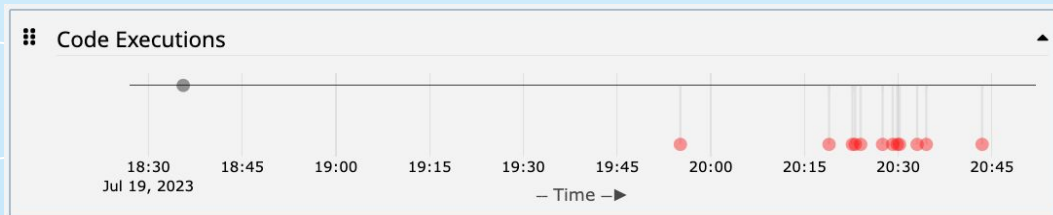
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- A master's thesis
 - Interviewed 5 professors and 5 students who used Process Feedback in their courses
 - “Analyzing the Impact of Process-Oriented Technology in Programming Education” – Kate Arendes
 - Available upon request

Story of Student A

Line Edit Location



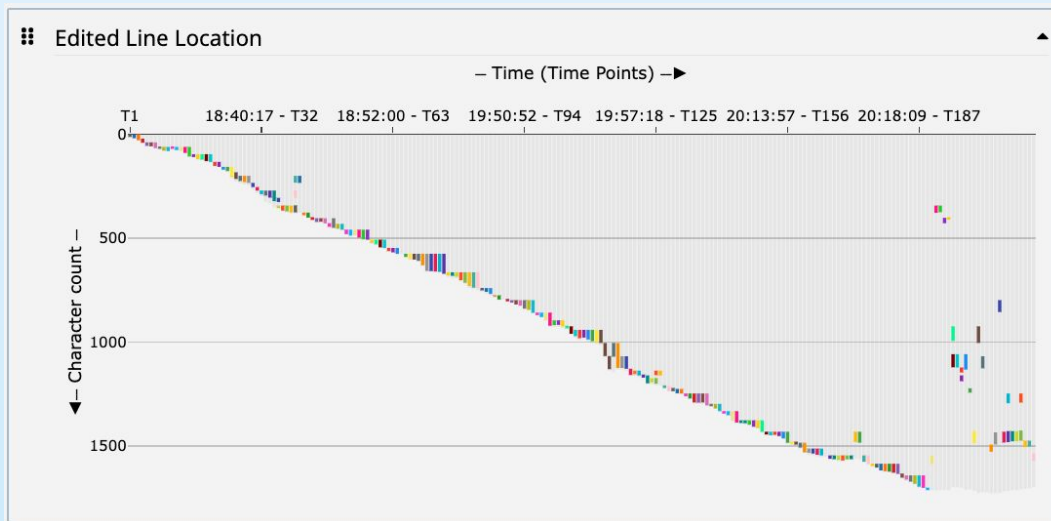
Code Execution History



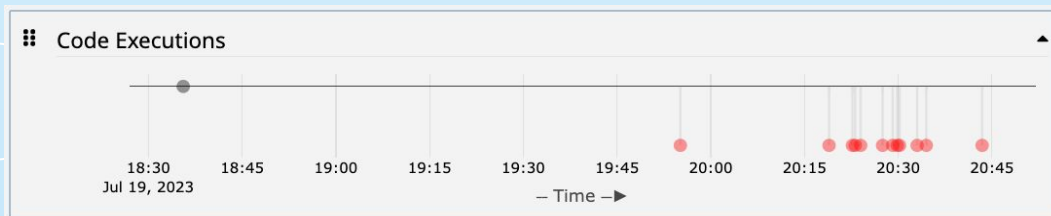
Without Process Feedback:
A student submitted code that looks correct but fails to execute correctly.

Story of Student A

Line Edit Location



Code Execution History

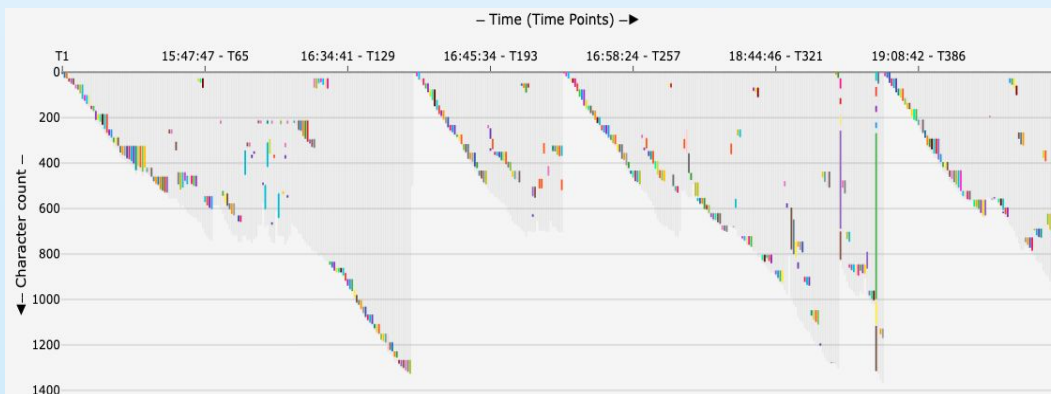


Without Process Feedback:
A student submitted code that looks correct but fail to execute correctly.

With Process Feedback:
Potential explanations of why the code does not work.

Story of Student B

Line Edit Location



Code Execution History



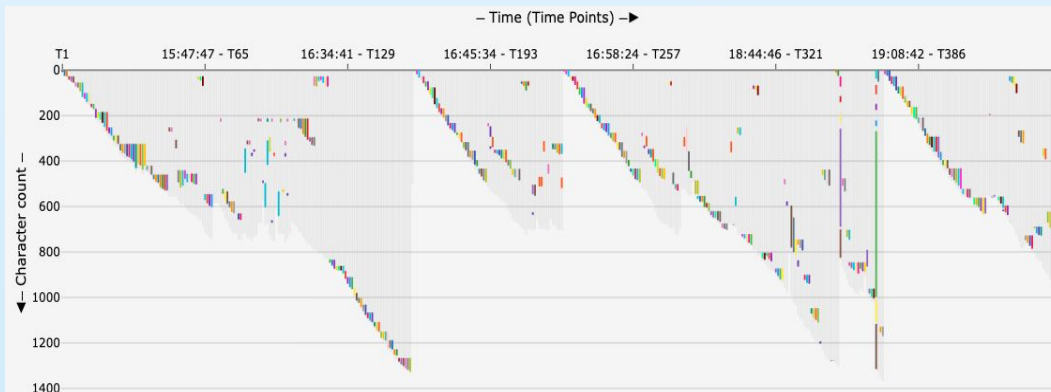
Active/ Inactive Times



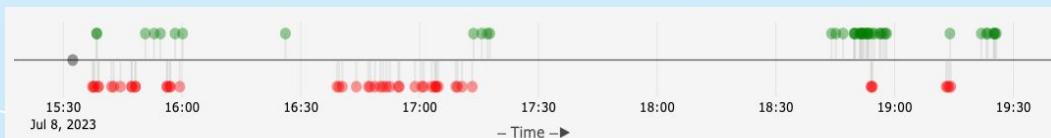
Without Process Feedback:
A student submitted code that looks correct.

Story of Student B

Line Edit Location



Code Execution History



Active/ Inactive Times



Without Process Feedback:
A student submitted code that looks correct.

With Process Feedback:
All effort behind the code.

About me

- **Associate professor**
 - University of Missouri–St. Louis
- **PhD in Computer Science**
 - University of Missouri–Columbia
- **Research experience**
 - Funded by NSF, NASA and 25+ peer-reviewed publications
- **Research interests**
 - Deep Learning application development, bioinformatics,
 - Data visualization, and process-aware teaching and learning.



Next... Workshop Logistics

