

Wikiglass: A Learning Analytic Tool for Visualizing Collaborative Wikis of Secondary School Students

Xiao Hu

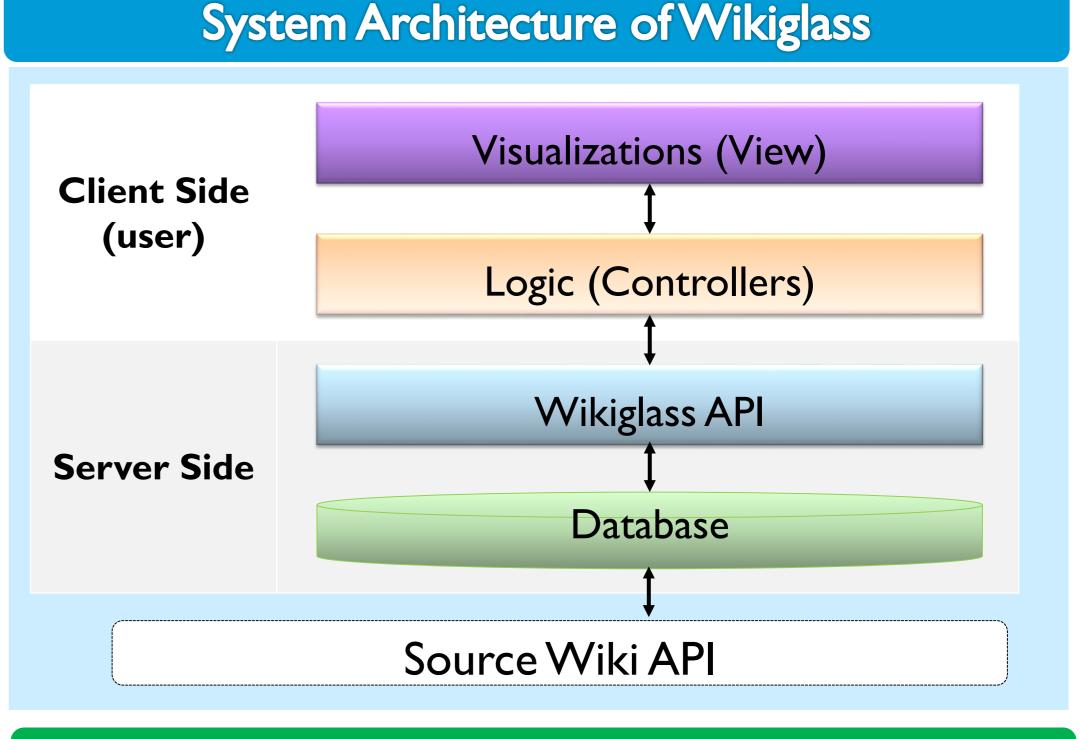
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Wikiglass: A Monitoring Lens

- Group Projects of Secondary School Students (12 15 yrs.)
- Each Group (~ 5 Students) writes Project Report on Wiki
- Wikiglass Can Help Teachers
- Keep Track of Student Progress
- Identify At-Risk Groups and Individuals
- Wikiglass Can Help Students in
- Work Distribution
- Group Collaboration
- Motivation

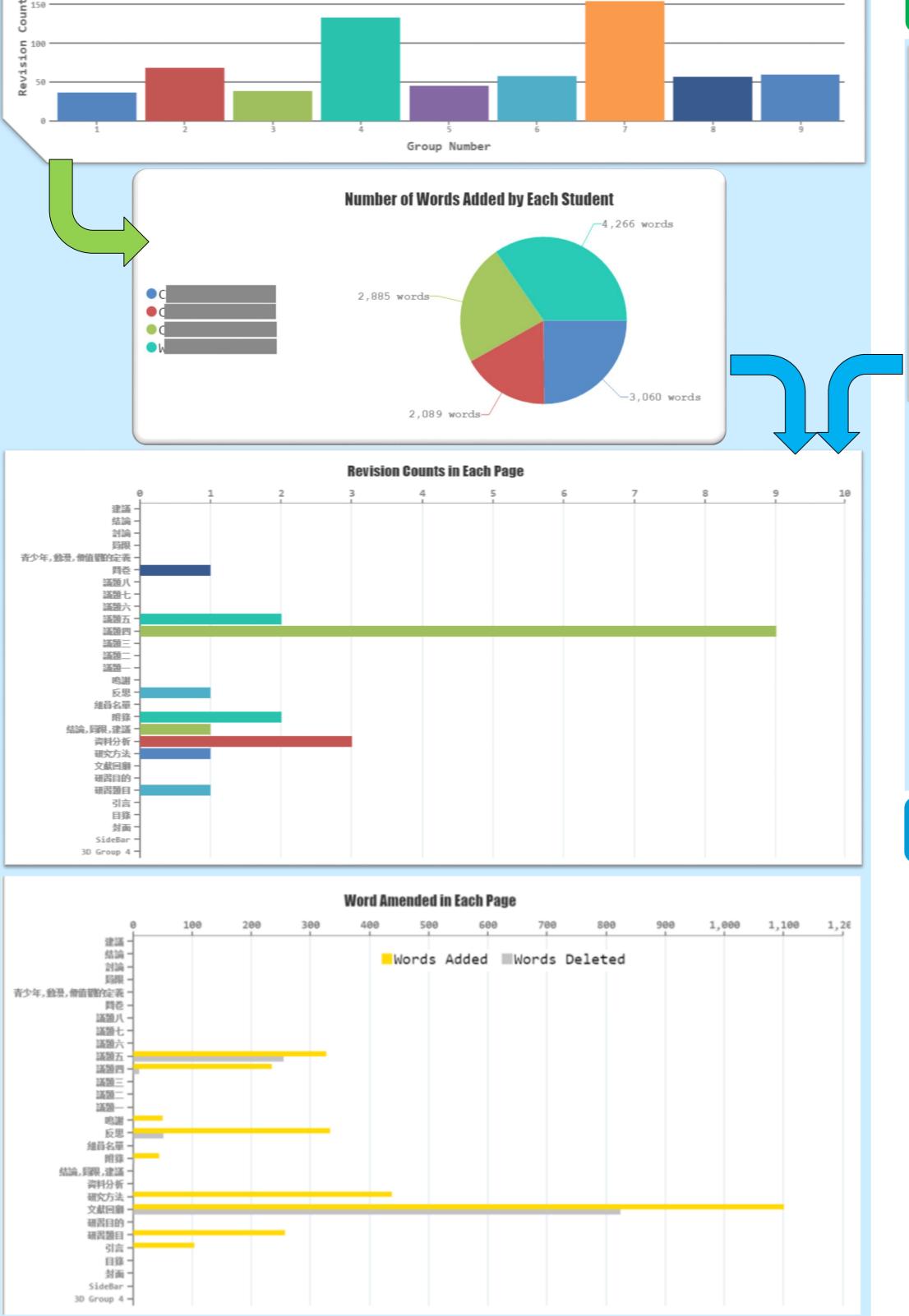
Visualization: Statistics Mode

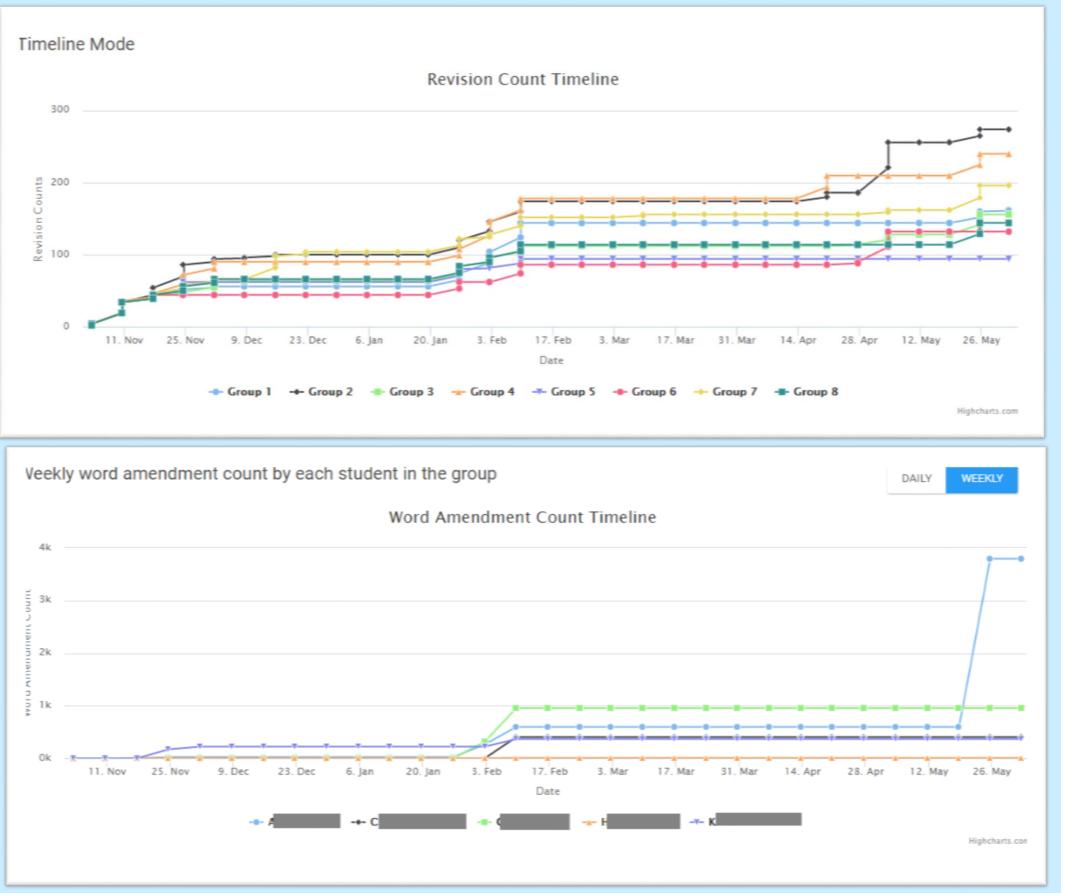
Revision Counts in Each Grou



Visualization: Timeline Mode

Statistics Mode





Other Features

- Daily update of database; Event logging
- Weekly summary of progress in e-mail:

This is a weekly summary (2016/03/07 - 2016/03/13) of students' performance in Class 3X Group Y. In this

Ongoing Work

- Identifying and Visualizing Quality Indicators of Student Collaborative Writing
- Visualizing Student Interactions: Collaboration vs. Cooperation ?
- Free Selection of Date Range for Visualization
- Systematic Classroom Evaluation

class, the average number of revisions per group is 9. Following is a brief analysis of weekly performance of the class.

Group comparisonTop 3 groups with the best performance:1. Group 2 (32 revisions)2. Group 1 (9 revisions)3. Group 7 (9 revisions)Bottom 3 groups with the worst performance:1. Group 3 (3 revisions)2. Group 5 (4 revisions)3. Group 6 (5 revisions)

Member performance

Contributions of your group member in group Y:

- 1. Ng Cindy (107 words added, 612 words deleted)
- 2. Lee Joanne (391 words added, 251 words deleted)
- 3. Mak Ivan (506 words added, 2 words deleted)
- 4. So Mingming (395 words added, 0 words deleted)
- 5. Lau Fred (372 words added, 0 words deleted)

Please log in to Wikiglass Site for more details at any time. Data on Wikiglass are updated everyday.

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