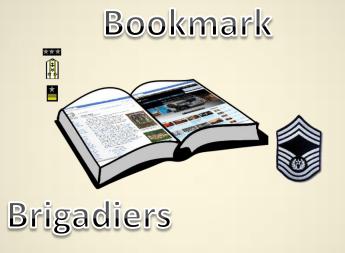
#### **Bookmark Library Web Browsing Tool**



Mackenzie Boyd, Forrest Guice, Justin Hill

## Introduction

- Mentor: Dr. John Georgas
  - Professor of Computer Science

- Client: Mr. Brad Budinger
  - Teacher for Havasupai Tribe



#### Difficulties

- Coordinating Student Activities
  - Sharing Web Pages
  - Sharing Assignments
- Performing Web Research
  - Tracking Notes and Sources
- Monitoring Web Access
  - Non-Educational Content
  - Dangerous Web Content

#### Past Solutions

- Variety of Web Solutions
  - Virtual Classrooms
  - Bookmarking Tools

 Past Solution Not Designed For Small Classrooms

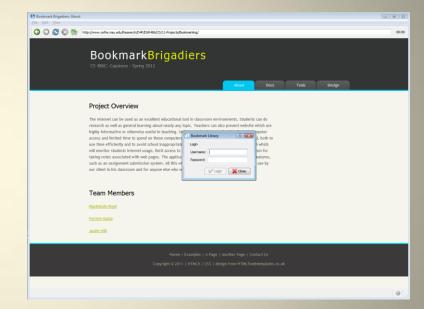
## Our Solution

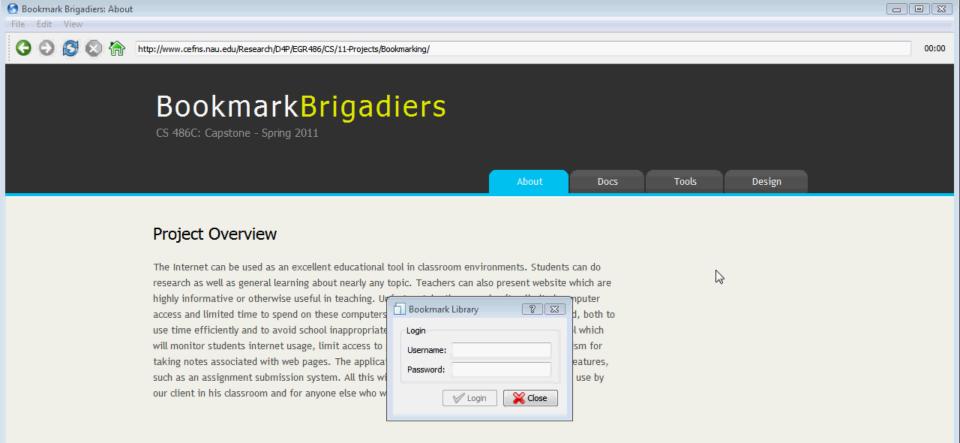
- User Accounts
- Notifications
- Libraries
- Whitelist
- Notes
- Notebook
- Plagiarism checker



#### Notifications

- Distribute assignments
- Remind students
- Save paper and time





#### Team Members

Mackenzie Boyd

Forrest Guice

Justin Hil

Home | Examples | A Page | Another Page | Contact

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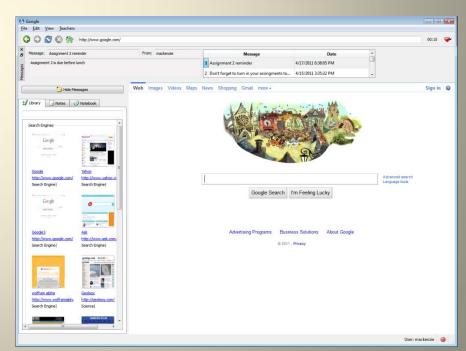


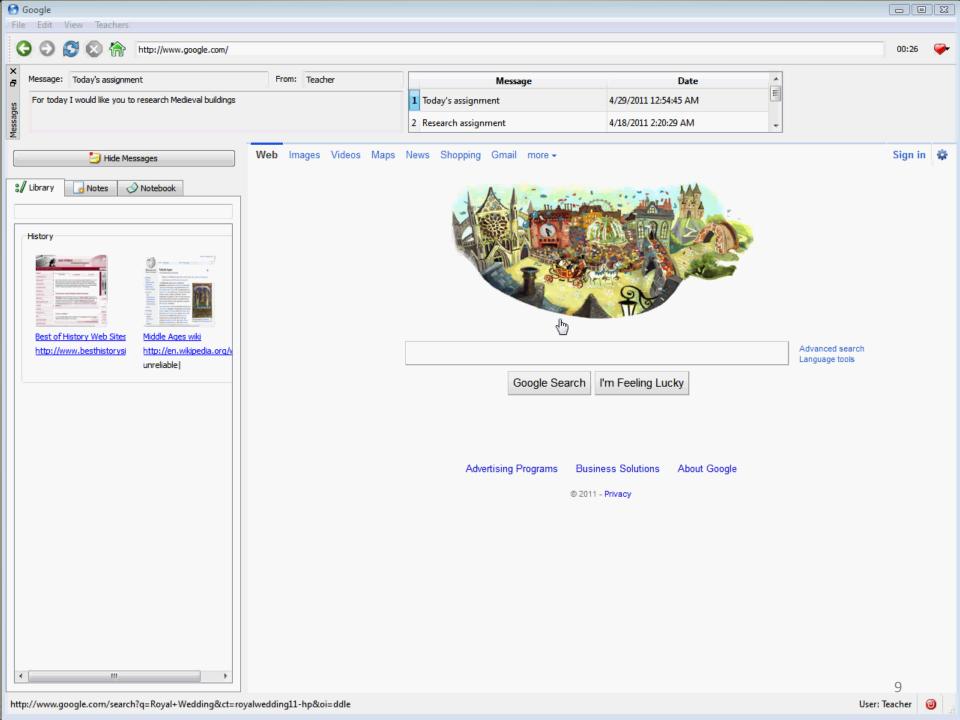
#### Libraries

Difficult to get class to a webpage

Can't easily share bookmarks

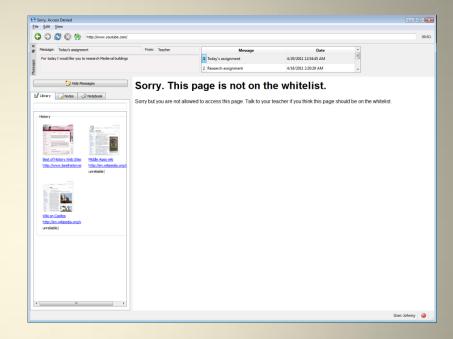
Organizes bookmarks



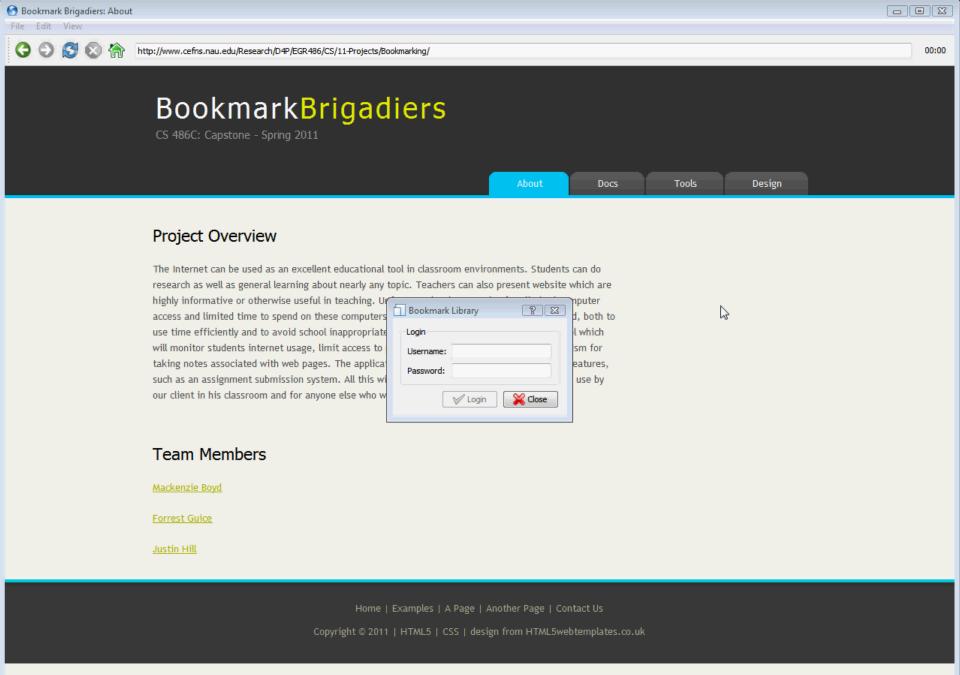


#### Whitelist

- Restricts content
  - Youtube
  - Facebook



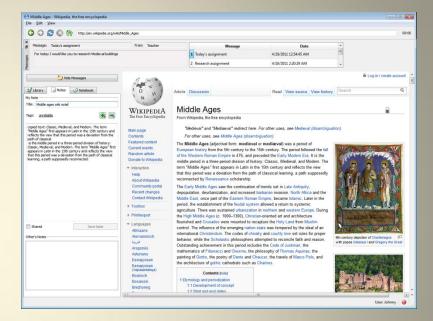
- More control for teachers
  - Pattern matching



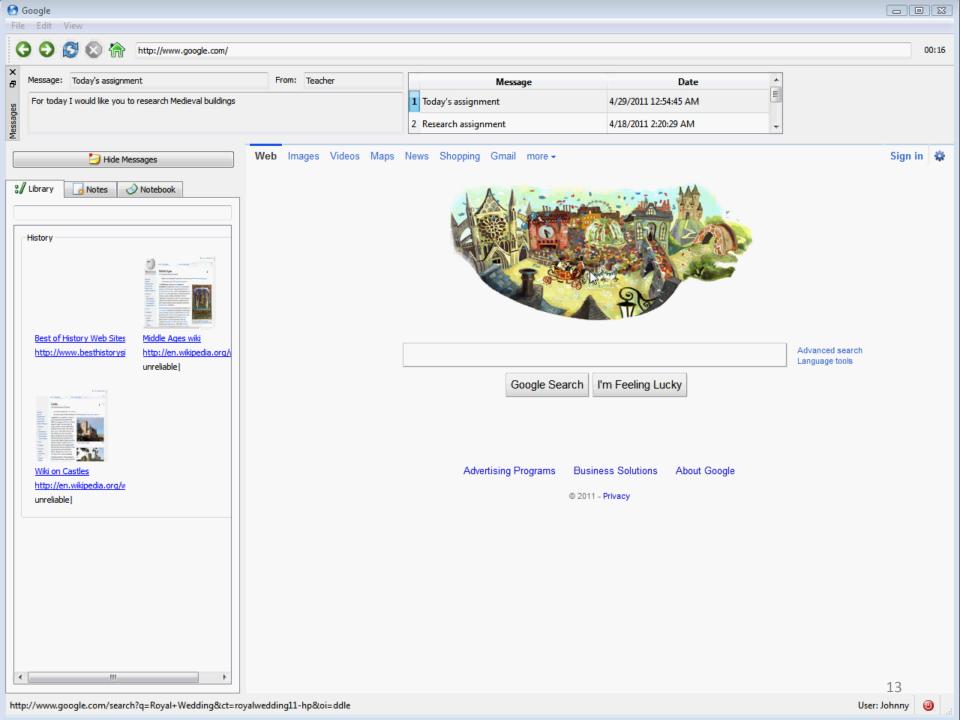
#### Notes

Disorganized research

Easily lost notes



Quality and quantity of notes unknown to teacher

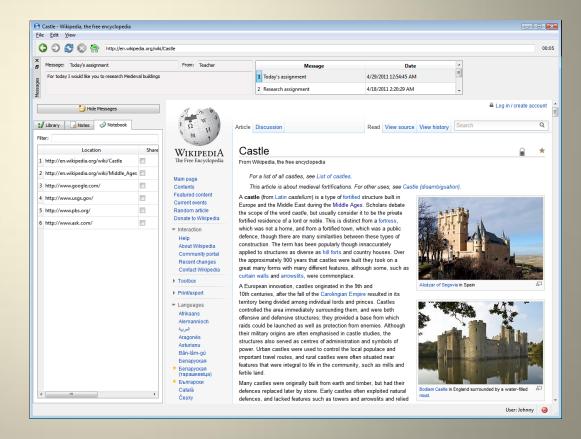


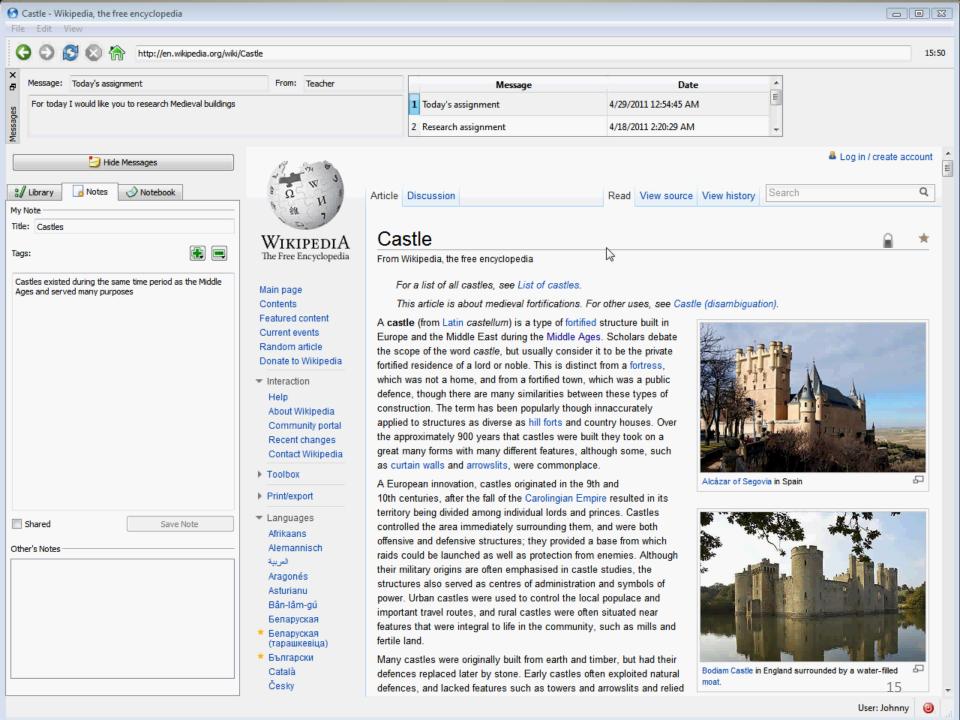
#### Notebook

All notes in one place

Organize notes

Filter notes

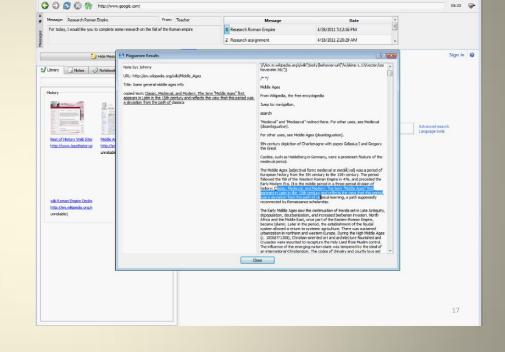




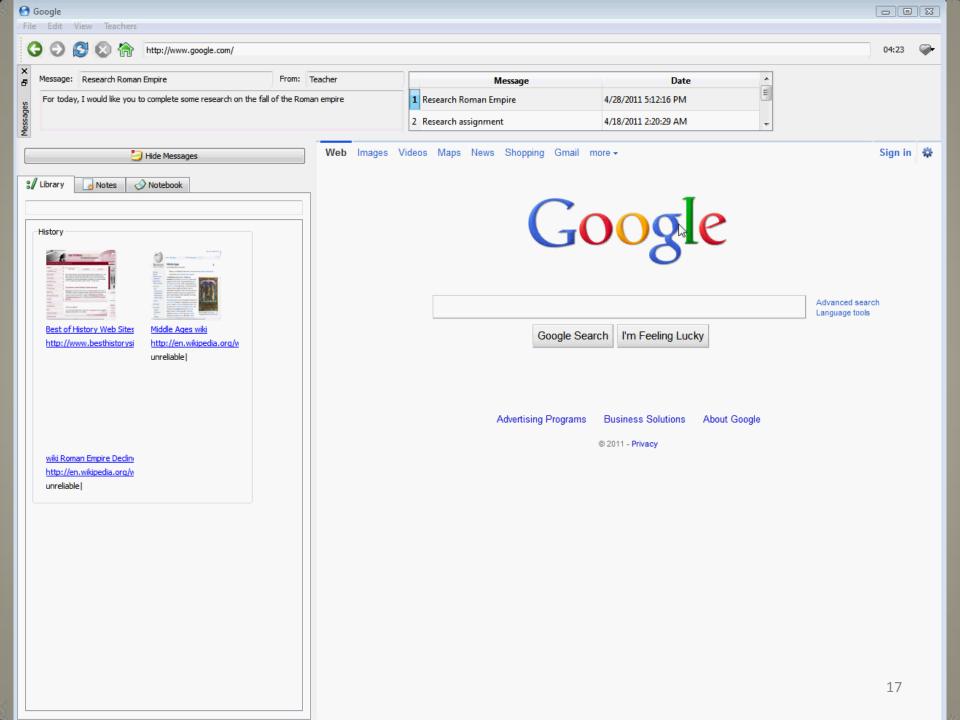
## Plagiarism Checker

View students notes

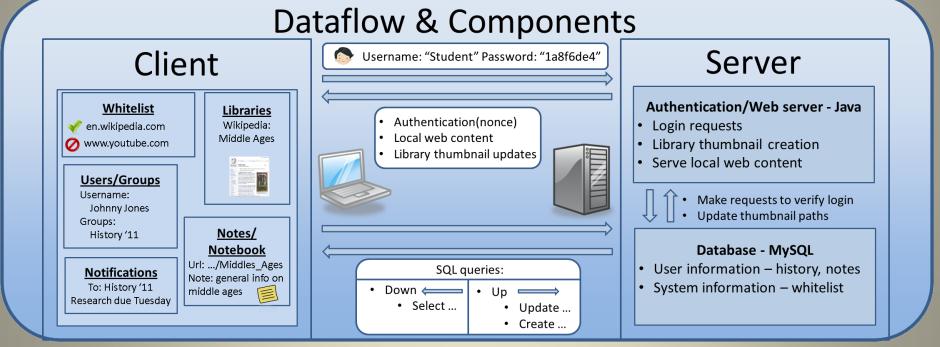
- Compare against:
  - History
  - Other user's notes
  - Text file



Custom settings to fine tune results



## Design

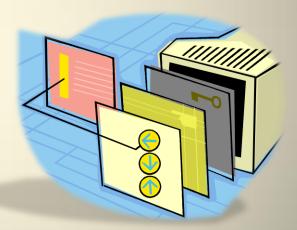


## Tools

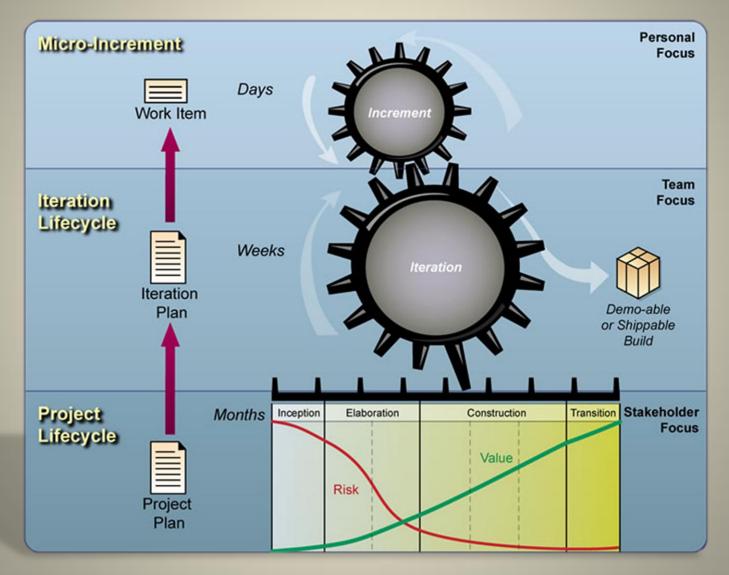
- C++ with Qt API
- Java Webserver

MySQL Database

Mercurial Subversion



## Design & Development Process



## Challenges



Choosing Languages and Tools

DatabaseConnection

Deployment

#### Conclusion

#### Key Features:

- Users accounts with persistent notes and history
- Whitelist controlled browsing and Bookmark Library

#### Statistics

Lines of code : 14,750

Commits: 350

Classes: 48

 Educational Tool for classroom internet usage





# Questions?



