



Archiving Transactions Towards Uninterruptible Web Service

Zhiwu Xie, Prashant Chandrasekar, Edward A Fox

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Outline

- Motivation
- Technical background
- System architecture
- Demo
- Future work





Web Archiving Current State

- Stakeholders
 - Cultural heritage organizations
 - Academia
- Coverage
 - Wide but shallow





Web Archiving Current State

- Approach
 - Crawler-based archiving
- Value proposition
 - Comprehensive public good: preserve the history, collect research data, ...





Wider Participation?

- "Free rider"
- "What's in it for me?"





Expand the Value Proposition

 Ask what the web archiving can do for the potential stakeholders and participants





What Matters to a Website?



502. That's an error.

The server encountered a temporary error and could r complete your request.

Please try again in 30 seconds. That's all we know.









How Can Web Archiving Help?





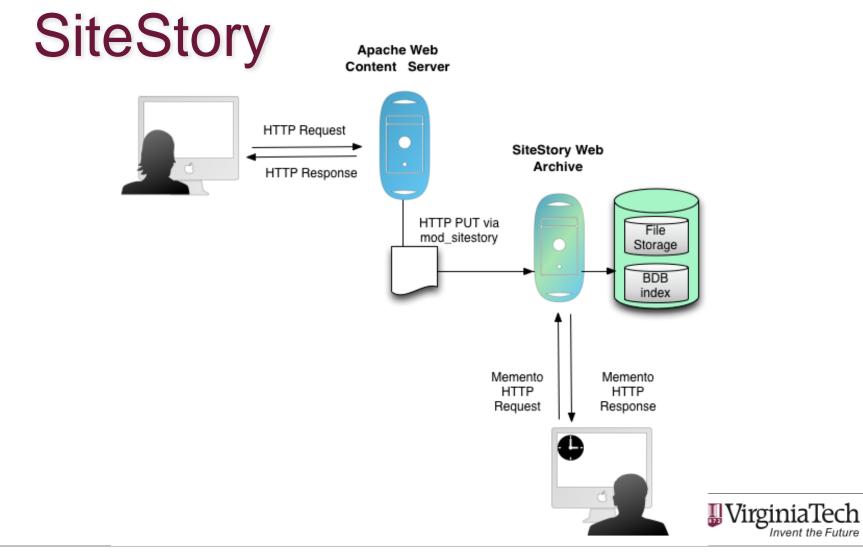


Web Archiving Approaches

- Crawler-base
- User-drive
- Transactional









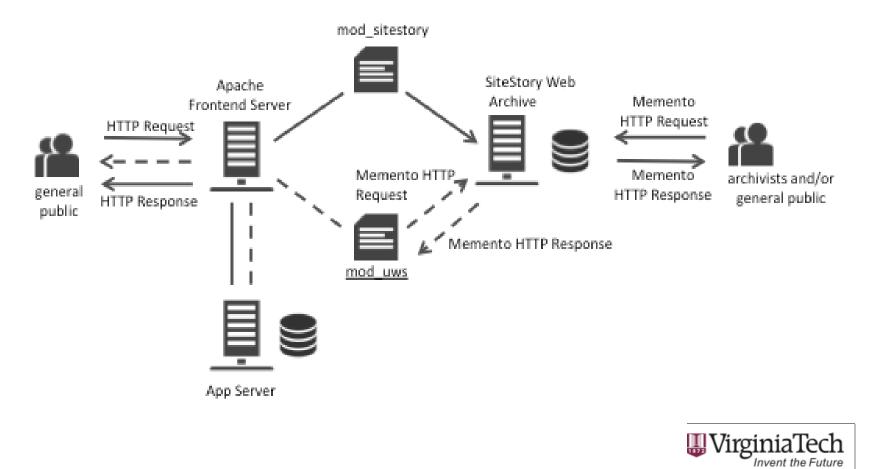
Uninterruptable Web Service (UWS)

- Turn SiteStory into a web infrastructure component that improves website availability
- Mask server errors from the end user
- Gain precious time for webmasters to recover from application server failures without disrupting the majority of their users' web experience



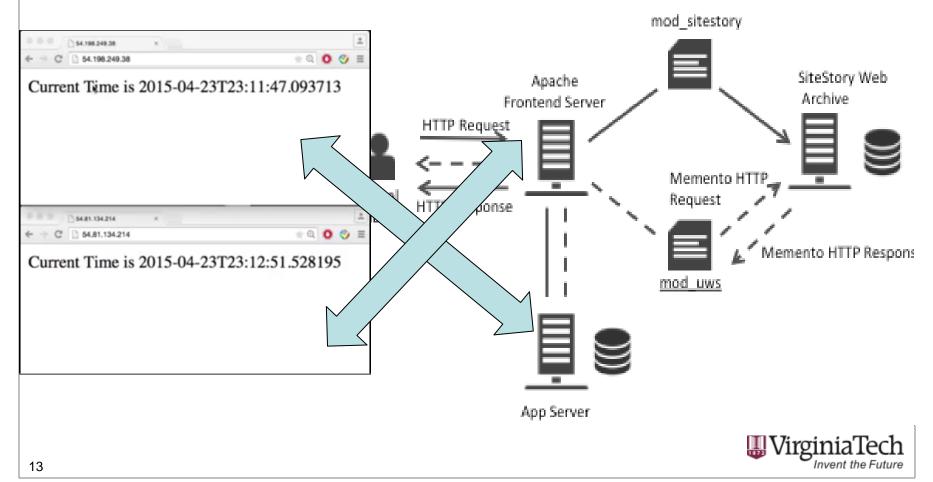


UWS Architecture





Demonstration





Future Work

- Moving UWS functions to application servers
- Improving performance





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Questions?

- Zhiwu Xie <u>zhiwuxie@vt.edu</u>
- Prashant Chandrasekar <u>peecee@vt.edu</u>
- Edward A Fox <u>fox@vt.edu</u>

