



Online Document Drafting Application

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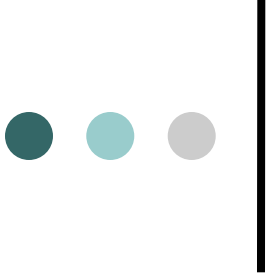
Legislative Information Systems

Columbus, Ohio



Topics

- Why we chose a web-app.
- Project Background.
- Architecture Concepts.
- Application Implementation.
- Demo - enter a bill.
- Prototype – engross an amendment.



Why a Web-application?

- Client environment neutral.
- Ease of deployment to support an expanding user population.
- Avoid licensing costs.
- Recognizable interface for a younger generation of workers.



Project: Development Plan

- Begin with Bill Prep
- Provide hooks to plug the new app into the existing workflow.
- Phase 2 – Bill Reviewers and Drafters
- Phase 3 – Clerks of House and Senate



Project: Agile Development

- Requirements discovery throughout development.
- Get system in customer hands early and often.
- Customer participation in design and testing.
- Automated Unit and Integration Testing.
- Refactor often.



Model Driven Architecture

- UML Model generates code
- Produce code in short time.
- Refactoring is easier.
- Code adheres to strict object-oriented standards.
- Design with graphical view of objects
- Enables Service Oriented Architecture.



Service Oriented Architecture

- Reuse of common functionality.
- Create single source for information.
- Enhance separation of business logic and presentation.
- Provide ability to share data with other agencies and the public.



Security

- Existing Internal Network
- Https
- Central Authentication Service (CAS)
for secure login



Implementation: Open Source

- Everything is open source except for UML modeling tool.
 - Code generator
 - Server
 - Database
 - Build
 - Authentication/Authorization
- No license fees to use application.
- At any point, code can be customized for LIS.
- Risk – developer experience.



Implementation: Environment

- Application Server –JBOSS
- Database – MySQL
- Middle Tier – Hibernate, Spring
- Front End - Struts, Yahoo User Interface
- Application Build – Maven
- Authentication – CAS
- Documents – XML, PDF, iText
- Client Access –IE7 or Firefox



Implementation: Tools

- MagicDraw – www.nomagic.com
 - UML Model
- AndromDA – www.andromda.org
 - code and build generation
- FCK Editor - www.fckeditor.net
 - Text editor
- Yahoo User Interface - <http://developer.yahoo.com/yui/>
 - User interface controls



Demo

- Import a drafting document.
- Editing a bill.
- Engross an amendment.



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