Media Library

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EEL6883
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Problem Overview

• Purpose
  – Organization
  – Tracking
• Motivation
  – Learning
Requirements

• Add
• Edit
• Delete
• Check In
• Check Out
Design

• MVC

- Model:
  - Encapsulates application state
  - Responds to state queries
  - Exposes application functionality
  - Notifies views of changes

- View:
  - Renders the models
  - Requests updates from models
  - Sends user gestures to controller
  - Allows controller to select view

- Controller:
  - Defines application behavior
  - Maps user actions to model updates
  - Selects view for response
  - One for each functionality

- State Query
- Change Notification
- View Selection
- User Gestures
- Method Invocations
- Events
Design

```plaintext
Toolbar

TabbedView

TableView

InstructionView

ActionView
```
Design

• Database Design

Media library

mediaitems

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statutable

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Implementation

• Java
• MySQL
• Iterative and Incremental
New Technologies

• MySQL
• JDBC
• Java Swing
• MVC
Changing Requirements
### Changing Requirements

#### Media Library

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#### Rejected 2/2007
Lessons Learned

• Importance of Design
• Impact of Changing Requirements
• Cost Estimation
• Regression Testing
Demo
Future Ideas

• More Detailed Error Checking
• JUnit Test Cases
• Logging
• Help Menu
• New Views
  – Who checked out
• Web Application
  – Service Requests
• Electronic Media
Questions/Comments