

Media Library

Megan Heffernan

EEL6883

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Problem Overview

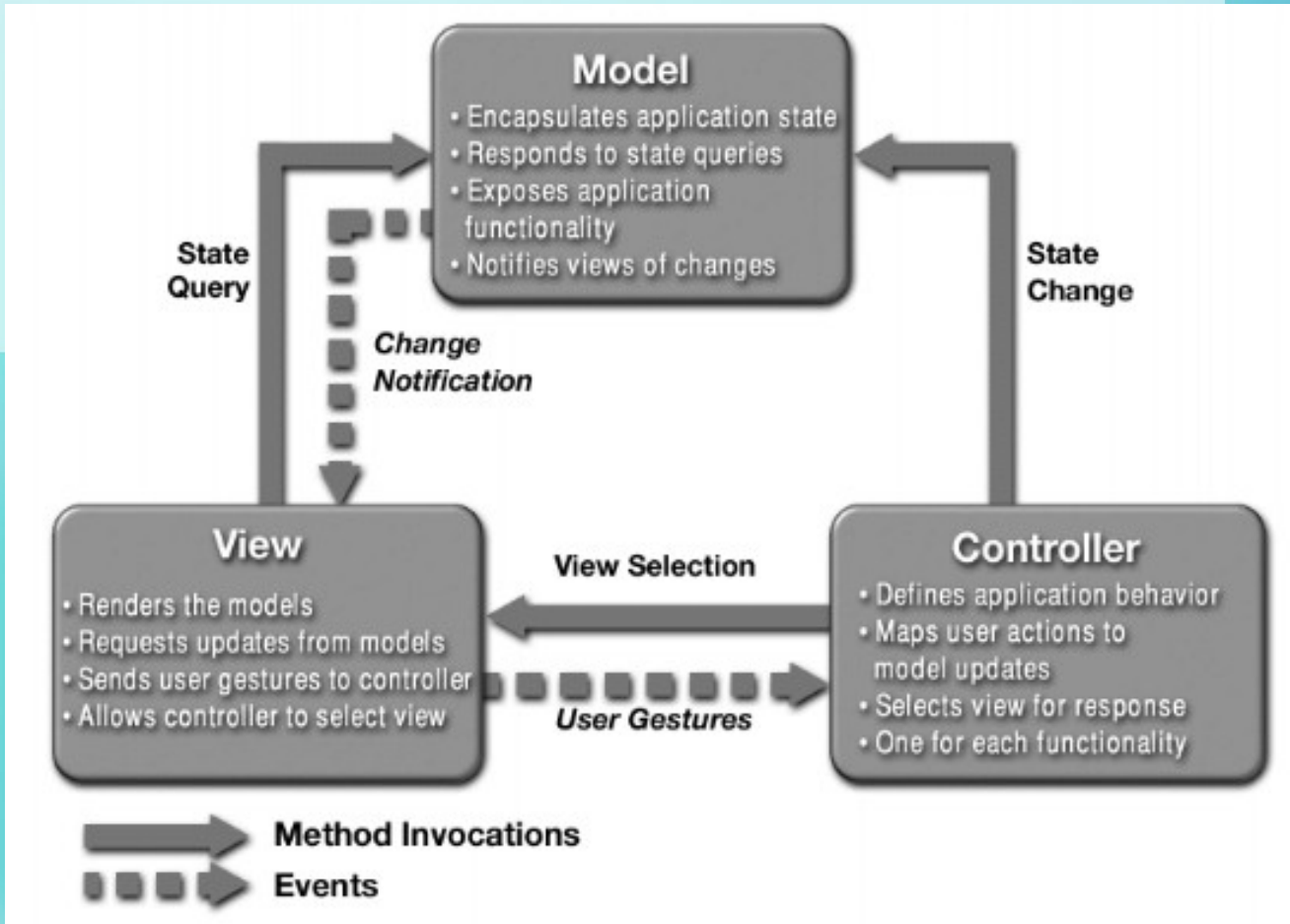
- **Purpose**
 - **Organization**
 - **Tracking**
- **Motivation**
 - **Learning**

Requirements

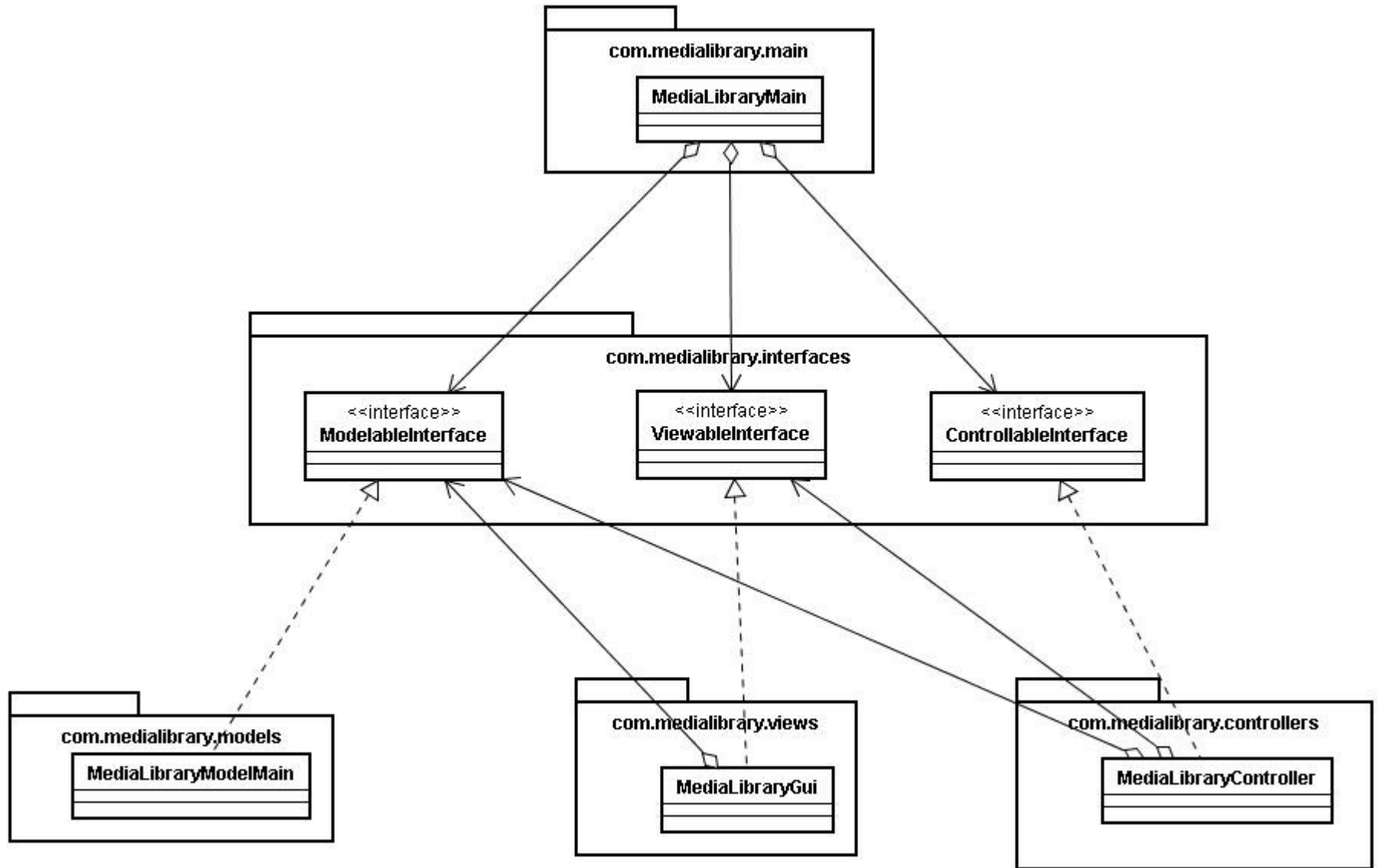
- Add
- Edit
- Delete
- Check In
- Check Out

Design

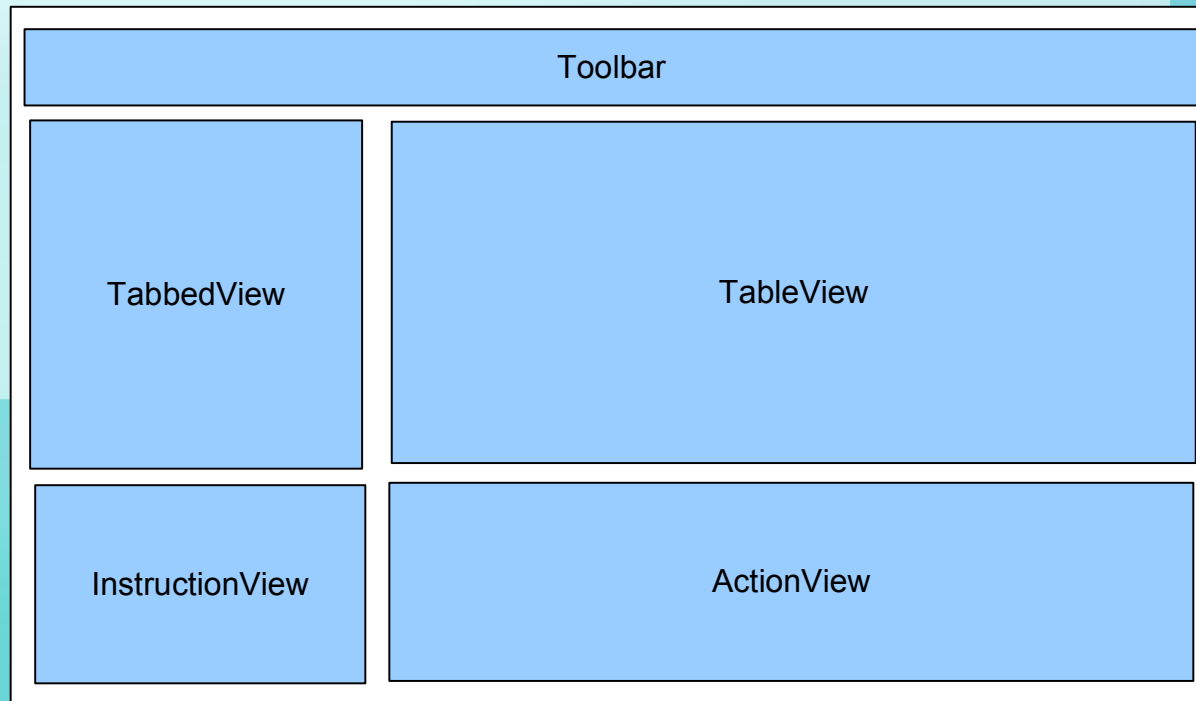
•MVC



Design

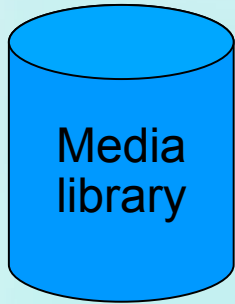


Design



Design

•Database Design



mediaitems

ID	Type	Title	Creator	Genre	Year

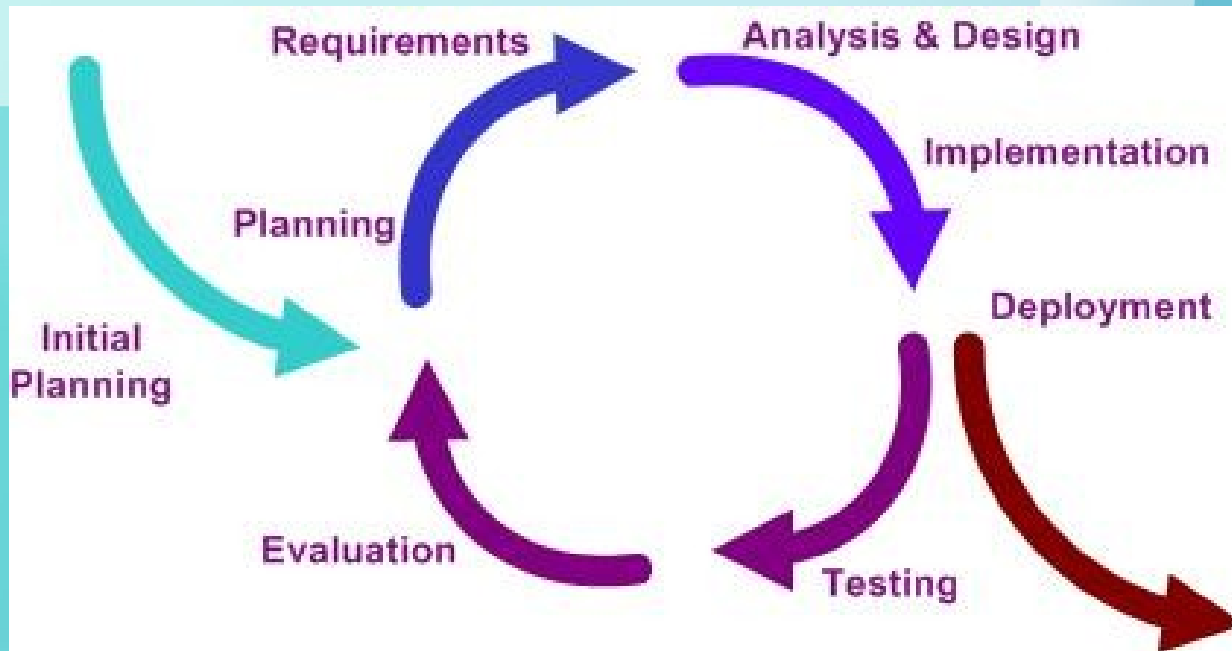


statustable

ID	CheckedOut	Date	LoanedTo

Implementation

- Java
- MySQL
- Iterative and Incremental



New Technologies

- **MySQL**
- **JDBC**
- **Java Swing**
- **MVC**

Changing Requirements

The screenshot shows a 'Media Library' application window with a 'Music' tab selected. It contains a table of music albums and a 'Properties' dialog box for editing an album's details.

Select		Title	Artist	Genre	Year	
<input type="checkbox"/>	Edit	Give Up	Postal Service, The	Alt Electronica	2003	Properties
<input type="checkbox"/>	Edit	Transatlanticism	Death Cab for Cutie	Alt Rock	2003	Properties
<input type="checkbox"/>	Edit	O	Rice, Damien	Folk Rock	2003	Properties
<input type="checkbox"/>	Edit	Continuum	Mayer, John	Jazz Rock	2006	Properties

The 'Properties' dialog box is open, showing the following fields:

- Title: _____
- Artist: _____
- Genre: _____
- Year: _____
- Comments: HELLO
NEIGHBOR

Buttons: Save/Close, Cancel

Bottom buttons: Add Album(s), Delete Selected Album(s), Close

Changing Requirements

The screenshot shows a 'Media Library' application window with a 'Music' tab selected. It contains a table of music albums and a smaller dialog box. A large red watermark 'Rejected 2/2007' is overlaid on the center of the image.

Select		Title	Artist	Genre	Year	
<input type="checkbox"/>	Edit	Give Up	Postal Service, The	Alt Electronica	2003	Properties
<input type="checkbox"/>	Edit	Transatlanticism	Death Cab for Cutie	Alt Rock	2003	Properties
<input type="checkbox"/>	Edit	O	Rice, Damien	Folk Rock	2003	Properties
<input type="checkbox"/>	Edit	Continuum	Mayer, John	Jazz Rock	06	Properties

Rejected
2/2007

Dialog Box:

Title: _____
Artist: _____
Genre: _____
Year: _____
Comments: HELLO
NEIGHBOR

Buttons: Save/Close, Cancel

Bottom Buttons: Add Album(s), Delete Selected Album(s), Close

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