# **M3** Presentation

DeKalb County Public Library Mobile Application DLibApp 5/2/2014

#### The TEAM

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- Introduction, Positioning, Product Overview, Goal Model, Use Case Model, Context Diagram, Use Cases, Class Diagram
- Introduction, Stakeholder & User Descriptions, Animated Storyboards, Use Cases
- Introduction, Positioning, Goal Model, Traceability, Use Cases, Business Process Model Diagram, Animated Storyboard

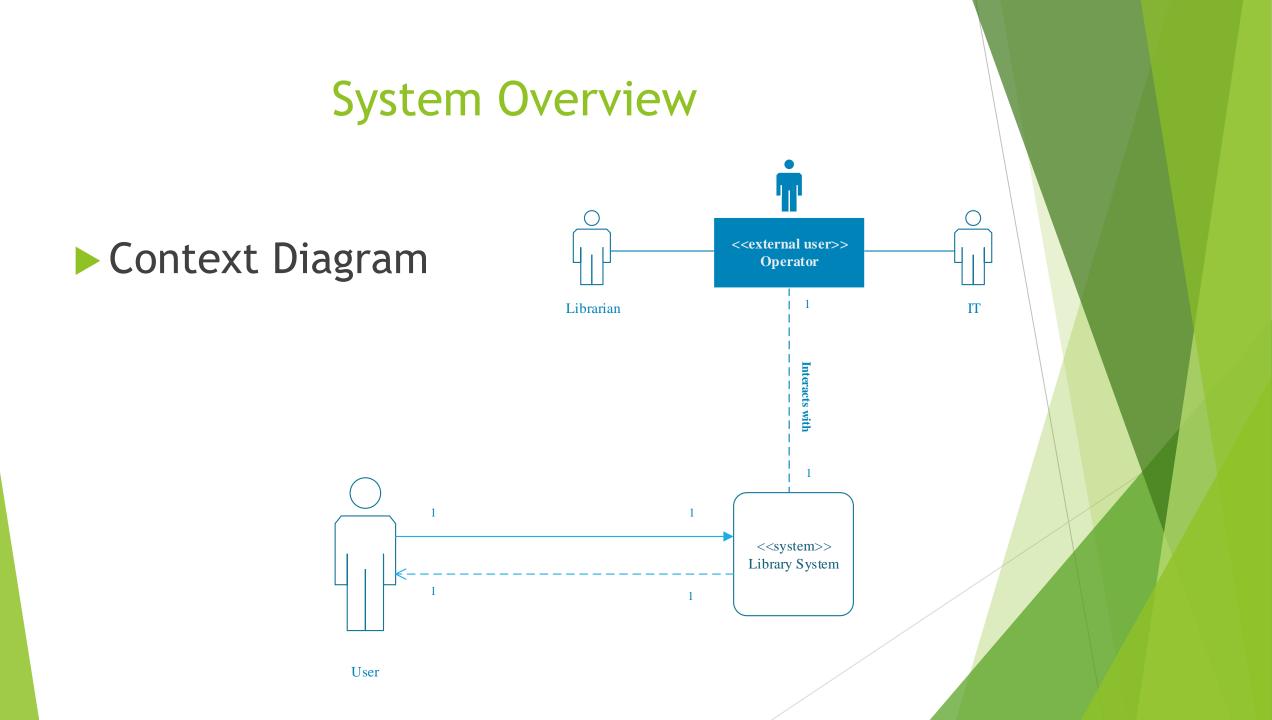
### System Requirements

#### Problem Domain

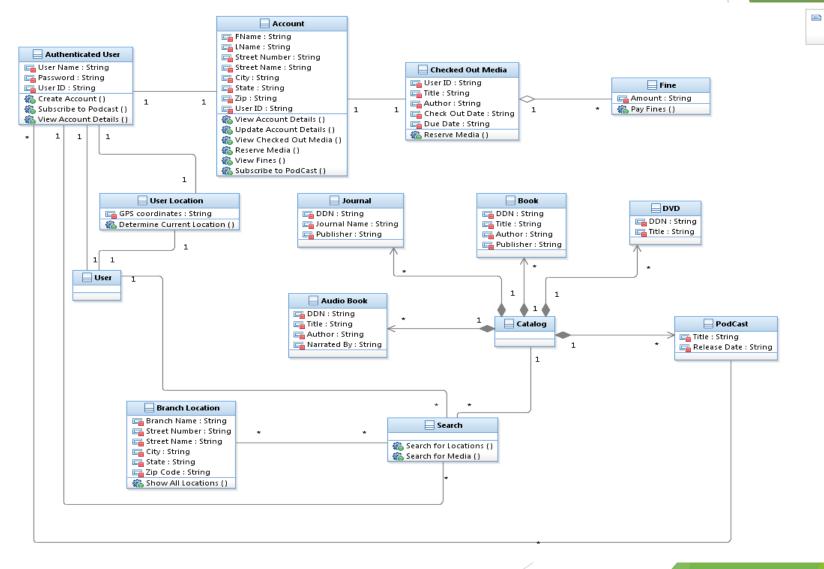
- Offsite access to resources available at the DeKalb County Public Library
- Mobile search capabilities
- Mobile access to branch locations and directions

#### **Goals**

- Mobile access to DeKalb County Public Library Homepage
- Secure login and account details
- Mobile application should support existing library homepage functions
- Maximize (media) search function
- Maximize (branch) location search









- Catalog instances and subclass instances are Created, Updated, and Deleted by the User Library Staff
- Branch instances are Created, Updated and Deleted by User Library Staff
- Account details are Created, Updated and Read by DLibApp User
- Search results are Read by DLibApp User

#### Goals

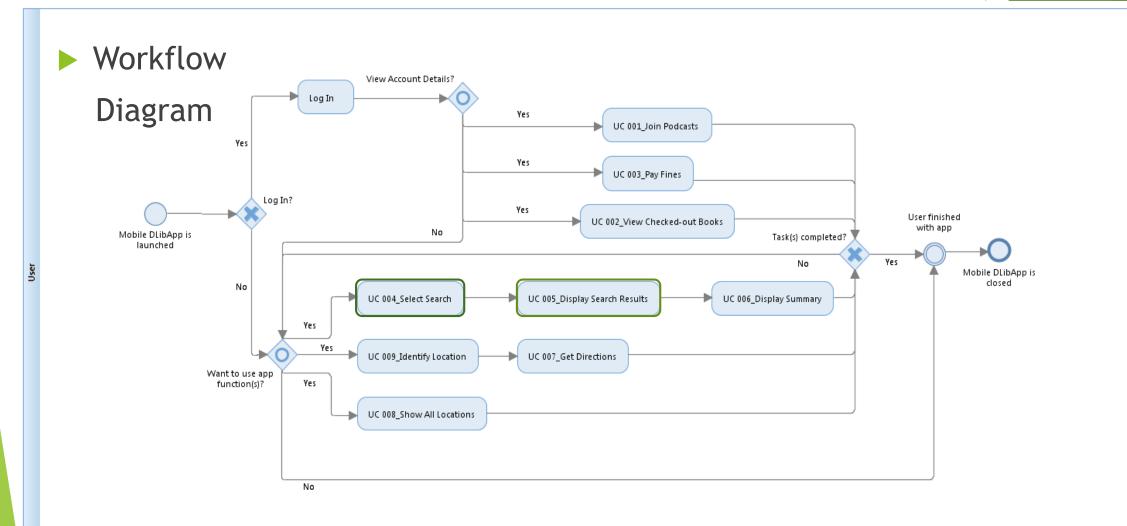
- **5.1** Mobile access to the DeKalb County Public Library Homepage
- **5.2** Allow secure login
- **5.3** Secure Account details
- **5.4** Mobile application should support existing library homepage functions
- **5.5** Maximize Search Function
  - 5.5.1 When user selects search link, then open search field and allow user to select search criteria
  - 5.5.2 When search criteria displayed, then allow user to search by keyword/title/author or search within categories including popular titles, kids' titles, DVD/audio titles, or newspaper/magazine titles
  - 5.5.3 When user initiates a search, do not display results with less than a 50% match
  - 5.5.4 When displaying search results, always display book or media title, author, and copyright date
  - 5.5.5 When user selects a search result, then display a summary of the book or media item and a list of locations where the item is available for check-out
- **5.6** Physical Location Search

#### Use Cases

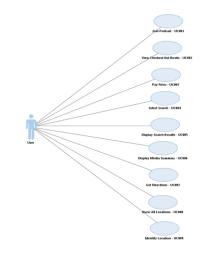
- UC001\_Join Podcasts
- UC002\_View Checked-Out Books
- UC003\_Pay Fines
- UC004\_Select Search
- UC005\_Display Search Results
- UC006\_Display Media Summary
- UC007\_Get Directions
- UC008\_Show All Locations
- UC009\_Identify Location

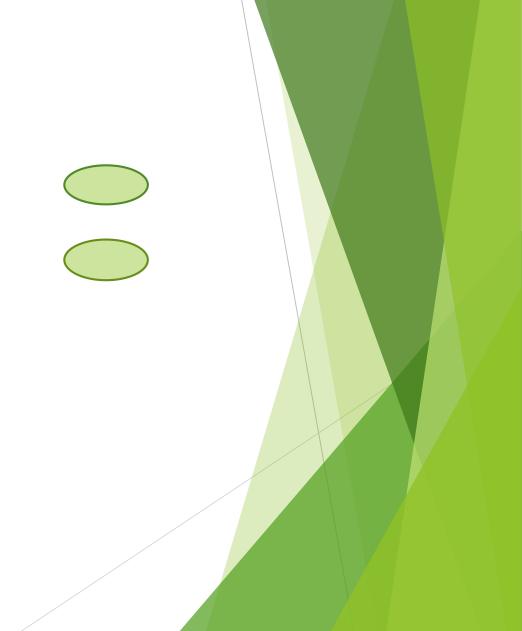
#### Traceability

	Goal 5.4.4	Goal 5.4.5	Goal 5.4.6	Goal 5.5.1	Goal 5.5.4	Goal 5.5.5	Goal 5.6.1	Goal 5.6.2	Goal 5.6.3	Goal 5.6.4	Goal 5.6.5
UC 001	Х										
UC 002		Х									
UC 003			Х								
UC 004				Х							
UC 005					X						
UC 006						Х					
UC 007										Х	
UC 008											Х
UC 009							Х	Х	Х		



► Use Case Diagram





#### Goal 5.5 Maximize Search Function

- 5.5.1 When user selects search link, then open search field and allow user to select search criteria
- Use-Case 004\_Select Search
  - Actor(s): User
  - **Pre-condition:** DLibApp is launched
  - **Post-condition:** Search field is displayed

Actor	System				
	System				
1. User clicks on search hyperlink	2. System processes request and displays available search criteria				
3. User selects search category from displayed list	4. System processes selection and displays search field				
Alternative					
3. User clicks back hyperlink or taps phone's built-in back button	4. System stops search request and displays homepage				













#### Goal 5.5 Maximize Search Function

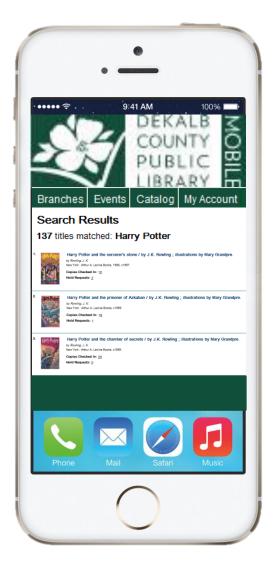
- 5.5.4 When displaying search results, always display book or media title, author, and copyright date
- Use-Case 005\_Display Search Results
  - Actor(s): User
  - > Pre-condition: User has selected search category and typed information into the search field
  - **Post-condition:** System displays search results

Actor	System
1. User clicks search button	2. System processes search
	3. System displays matches' title, author, and copyright date
Alternative	
	3. System displays "No results found" message
4. User clicks "OK"	5. System displays search dialog







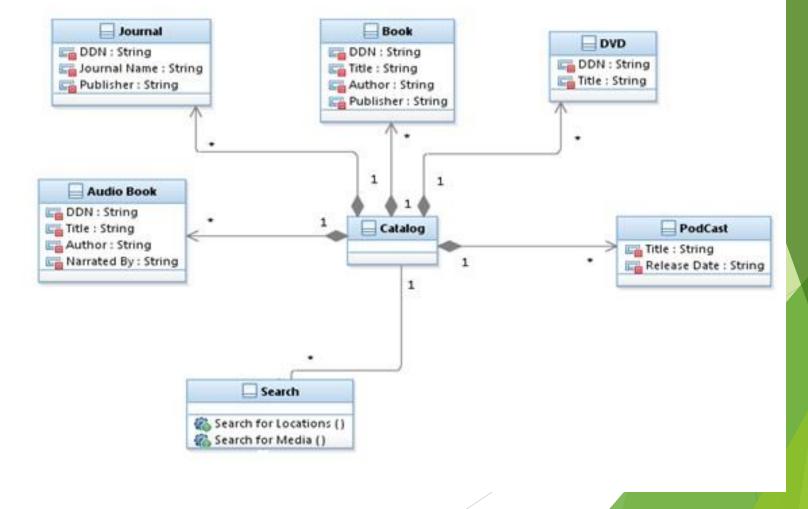






#### System Analysis & Demonstration

Domain Diagram



### Conclusion

#### Why is the DLibApp needed?

- Allows library members and staff mobile access to the DeKalb County Public Library and its functions and resources
  - Check out books, DVDs, and journals
  - Pay fines
  - Search for nearby locations
  - ► Etc.

### Conclusion

Compatibility

- The DLibApp Search Functions are powered by Google Maps
- Access to 3<sup>rd</sup> party podcasts through the DeKalb County Public Library's Podcast Subscriptions

### Conclusion

#### Growth

- Added functionality for the DLibApp
- New mobile applications for all the public library systems in Georgia
- New mobile applications for all the public library systems in the U.S.

# **Questions**?