



Application Development for Mobile and Ubiquitous Computing

Seminar Task First Presentation

GroupNo. 8

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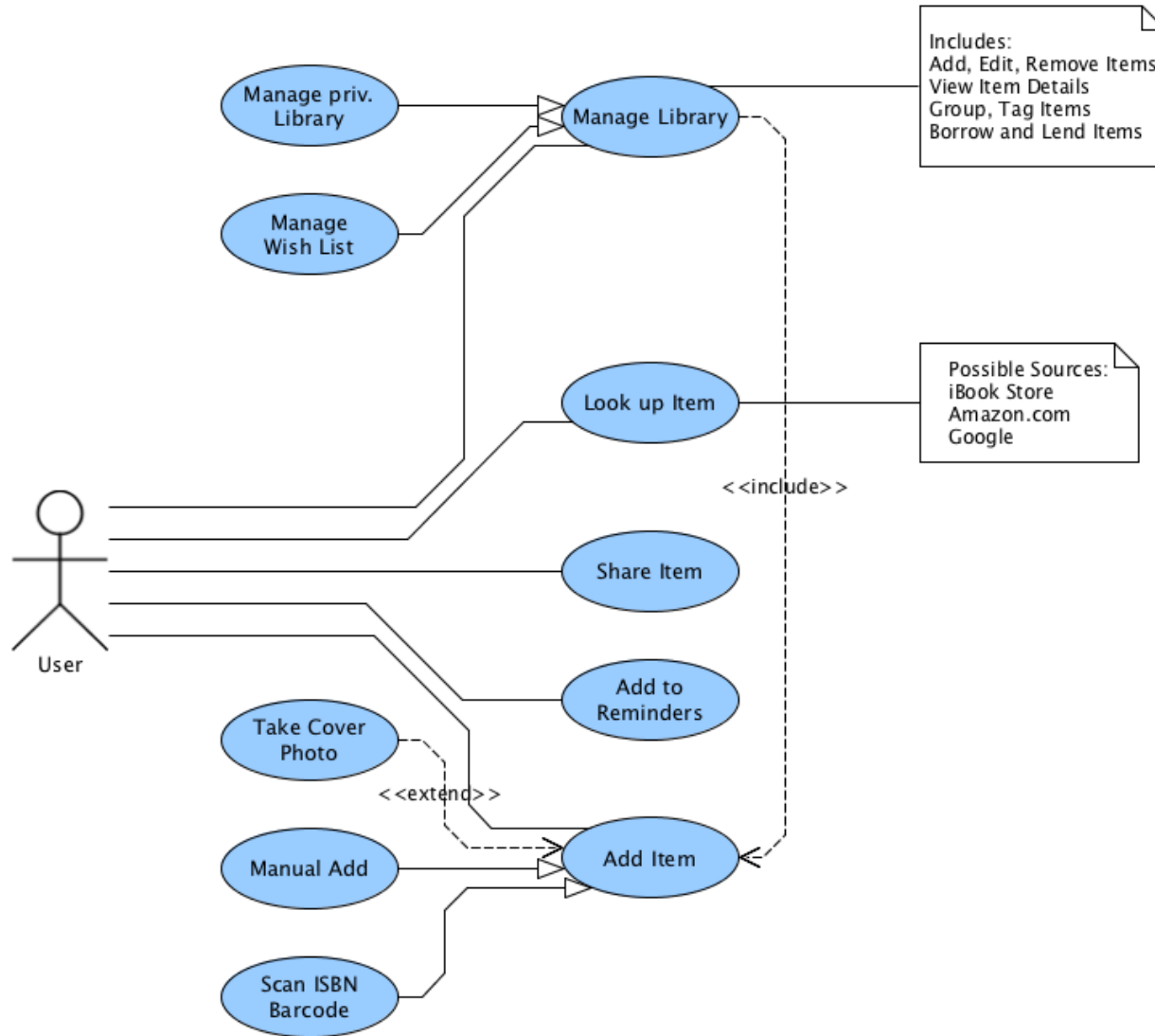
We are planning an app that allows managing your private library (mainly of books) with ease.

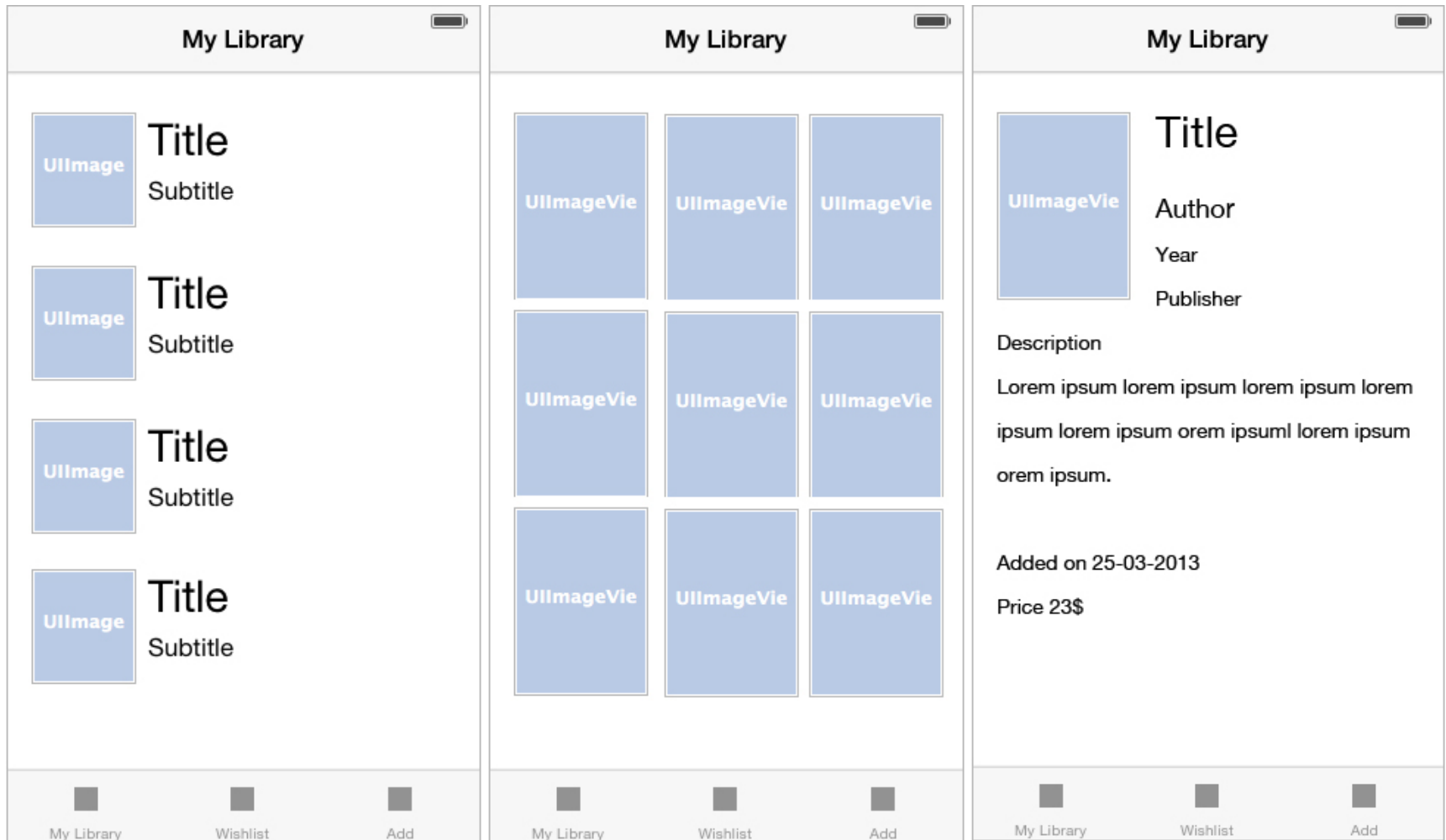
Manage the
books you
have

Manage the
books you
**would like
to have**

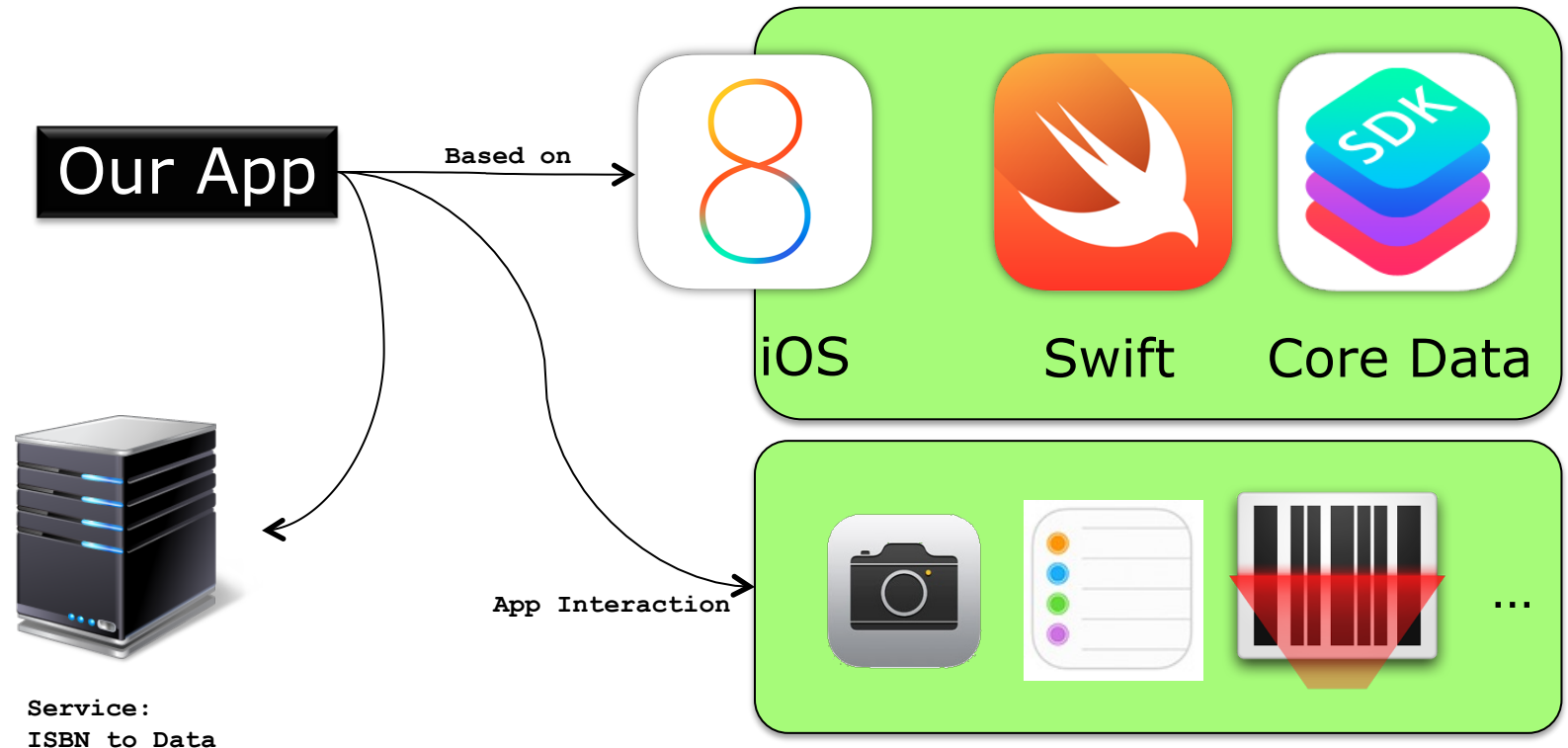
**Borrow
and lend**
books

...and never
forget
**where to
find** them!





- App development for iOS, basically for iPhone since the iPhone 4S



- MVC-Pattern

Views

`tableView`

`coverView`

`singleView`

`addView`

Controller

`tableView
Controller`

`coverView
Controller`

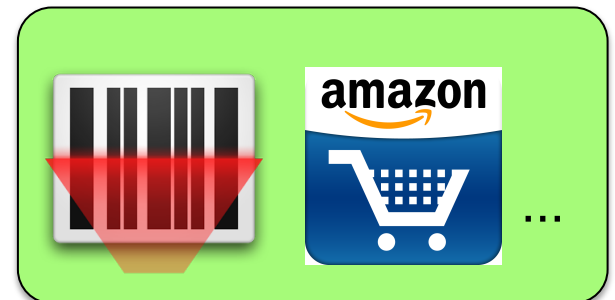
`singleView
Controller`

`addView
Controller`

Data Storage



Other SDKs



- **Connectivity Challenge**
handle low speed connections (avoid unnecessary traffic) and service errors
- **Offline Challenge**
handle ISBN-Requests when phone is offline (store in queue and gather data when phone gets back online)
- **Form Factor Challenge**
support multiple screen sizes and resolutions (iPhone 4S, 5, 5C, 5S, 6, 6Plus)
- **Usability Challenge**
handle different ways to enter data (scan barcode, enter manually, take a photo)

- Till 07.11.2014
 - **Analysis:** Creation of first ideas, concepts, mock-ups
 - Introduction in Swift programming
- *07.11.2014 First Presentation*
- Till 30.11.2014
 - Software **Design**
 - **Prototyping**
- Till 19.12.2014
 - First **implementation** of basic application
 - Writing adaptation concept document
- *19.12.2014 Submit Adaptation Concept Document*
- Till 15.01.2015
 - Finalize implementation
 - **Testing**
- Till 30.01.2015
 - Fixing, minor changes, continuous testing
- *30.01.2015 Final Presentation*

Images used:

- http://upload.wikimedia.org/wikipedia/en/4/43/Apple_Swift_Logo.png
- http://upload.wikimedia.org/wikipedia/commons/6/68/IOS_8_logo.png
- <https://devimages.apple.com.edgekey.net/ios7/images/icon-sdk.png>
- <http://www.appgefahren.de/wp-content/uploads/2014/06/iOS-7-Kamera.jpg>
- <http://ianstormtaylor.com/posts/whats-wrong-with-the-ios-7-icons/images/reminders-new.png>
- <https://lh6.ggpht.com/os72icmFIDtbxpYbZCP-v6kOereSLGDmIKsBl1ISTPdgbcpoc4rSIuXDuoDECvgcvoFJ=w300>
- <http://icons.iconarchive.com/icons/icons-land/vista-hardware-devices/256/Home-Server-icon.png>