LIBRARY MOBILE WEB APP
CODE CAMP

ORIENTATION SESSION
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UNIVERSITY LIBRARY
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
Camp Goals

• Design Mobile Apps that meet real student needs

• Create mash-ups using Library APIs and 3rd Party APIs

• Learn more about Mobile App Development process

• Increase mobile programming skills
Camping

• Can work individually or in groups
• Share knowledge
• Plan to demo progress and versions with group
Workflow

1. IDEA
2. KEY APP FEATURES
3. SKETCH APP
4. CHOOSE API's
5. CODE
6. REPEAT
7. TEST
API Information

• Link to APIs and documentation:
  – For University of Illinois Library data look at the Minrva Web Services API (http://minrvaproject.org/services.php)
  – Campus content and other sources, check out:
    http://www.library.illinois.edu/codingcamp/developer_resources.html

• Brief description of API use w/ examples
  – The Minrva Web Services return JSON data based on parameters sent.
Minrva Example (catalog api)

Example Input:
http://localhost:8080/api/catalog/search?loc=uiu_undergrad&query=cat&type=all&page=1

Example Output

```json
[
  {
    "bibId":"uiu_6830177",
    "title":"Cat Cora's classics with a twist : fresh takes on favorite dishes",
    lurch",
    "author":"Cora, Cat",
    "pubYear":"2010",
    "location":"University of Illinois at Urbana-Champaign",
    "format":"Book"
  },
]
```
Mash-ups

EXISTING API'S:
- Goodreads
- Google Maps
- Hathitrust Data
- MTD
- World Cat Search, etc.

YOU CREATE:
1. Programming in JavaScript Libraries, jQuery, PHP, etc.
2. HTML-based Mobile Web App Interface
Example Apps

- Personalized Library information
- Clickers
- Study group tools
- Class tools
- Finding campus spaces and resources
- Other ideas from competition
Camp Schedule

Friday Evening Introduction Session

- 6:00 - 7:00 Introductions and opening remarks
- 7:00 - 7:15 Break I for refreshments
- 7:15 - 8:45 Initial Coding
- 8:45 - 9:00 Break II
- 9:00 - 10:00 First Report-Out to Group
Camp Schedule

Saturday Session

• 10:00 – 10:30 Doughnuts & coffee served, Informal Q & A, Discuss any Issues
• 10:30 – 12:00 Coding
• 12:00 Lunch Served
• 12:00 – 2:00 Coding
• 2:00 – 2:30 Second Report-out to Group
• 2:30 – 4:30 Coding
• 4:30 – 5:30 Final Report Out
• 5:30 - Participants vote for informal awards
• 5:45 - Award Certificates are presented
• 6:00 - Closing remarks
Awards
Awards

- Best Mashup
- Best Looking Design
- Brightest Idea
- Most Features
Questions?