

UNIVERSITY OF ILLINOIS



LIBRARY MOBILE WEB APP CODE CAMP

ORIENTATION SESSION

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UNIVERSITY LIBRARY
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

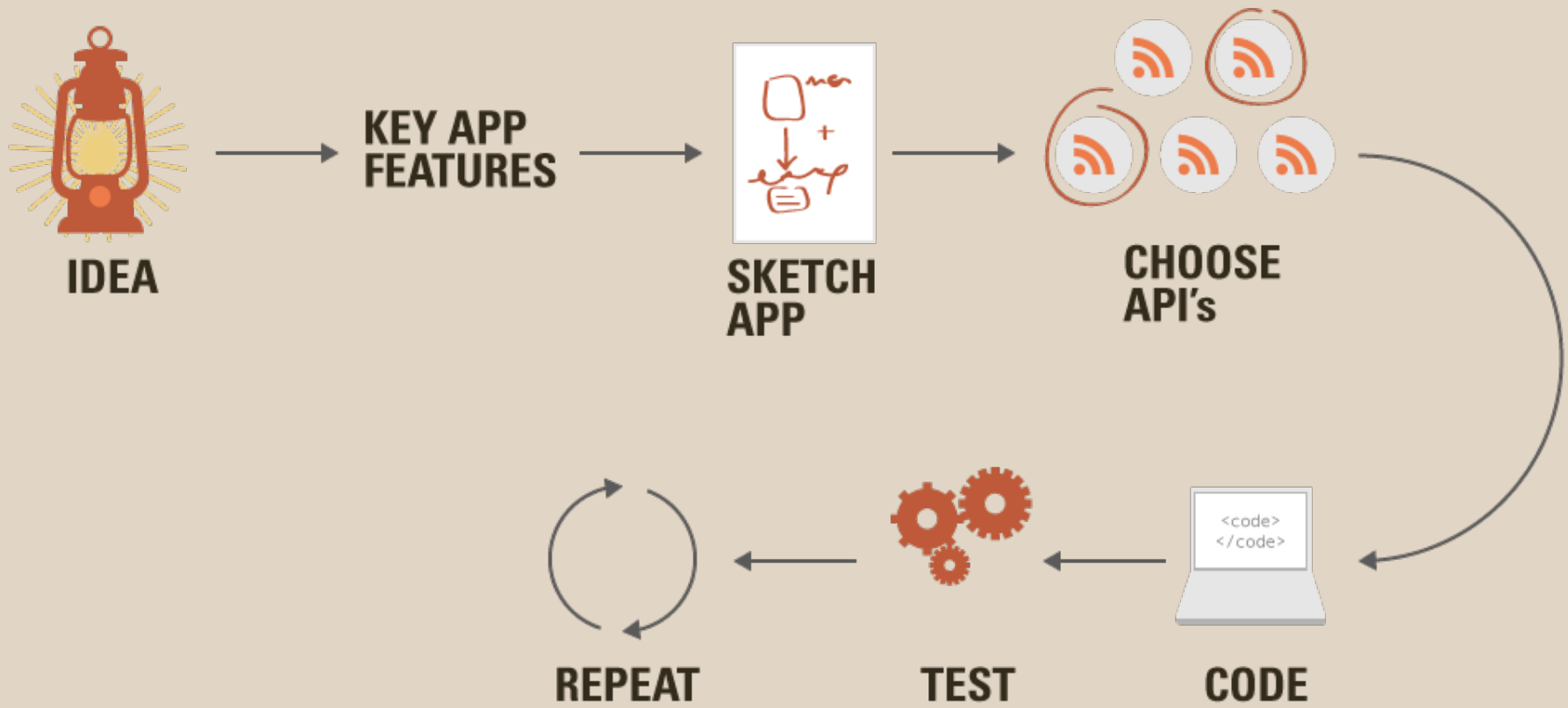
Camp Goals

- 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



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

```
[
  {
    "bibId": "uiu_6830177",
    "title": "Cat Cora's classics with a twist : fresh takes on favorite dishes",
    "thumbnail": "http://secure.syndetics.com/index.aspx?type=xw12&isbn=9780547126036/SC.GIF&client=uil",
    "author": "Cora, Cat",
    "pubYear": "2010",
    "location": "University of Illinois at Urbana-Champaign",
    "format": "Book"
  },
]
```

Mash-ups

EXISTING API'S:



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?