

I Want 2 Know!

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Introduction: What is iW2K?

- An educational tool for kids of age 5-18 years to explore new and interesting educational content.
- Redesigned interface for extension.org
- Why?
 - Current interface is too complicated for kids
 - Needs a desktop browser – not appropriate for kids
 - Research confirms handhelds are better than desktops to reach out to kids

Literature Review

- Children are found to fail at locating content by navigating through a labyrinth of information
 - Hints on making point-and-click interface
- Mobile supported collaborative learning environments makes learning for kids effective both individually and in groups
 - Effectiveness of mobile platforms for educating kids
- Smartphones are ubiquitous learning platform
- Responsive web design – adapts to multiple screen sizes

Design Choices

- We heavily iterated on our design and eventually settled on a Fluid Grid layout to accommodate all platforms with one site.
- All applications will run through a web view with some features built on top of them for each native program.

Our Contribution

- Redesigned extension.org to a lightweight web application
- Multi-platform mobile application designed for kids

Resources

Science Topics

Agricultural Sciences

All About Water

All About Energy

Geospatial Technology

Natural Environment

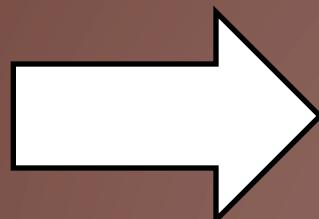
4-H Science

Other Learning Opportunities

More Information

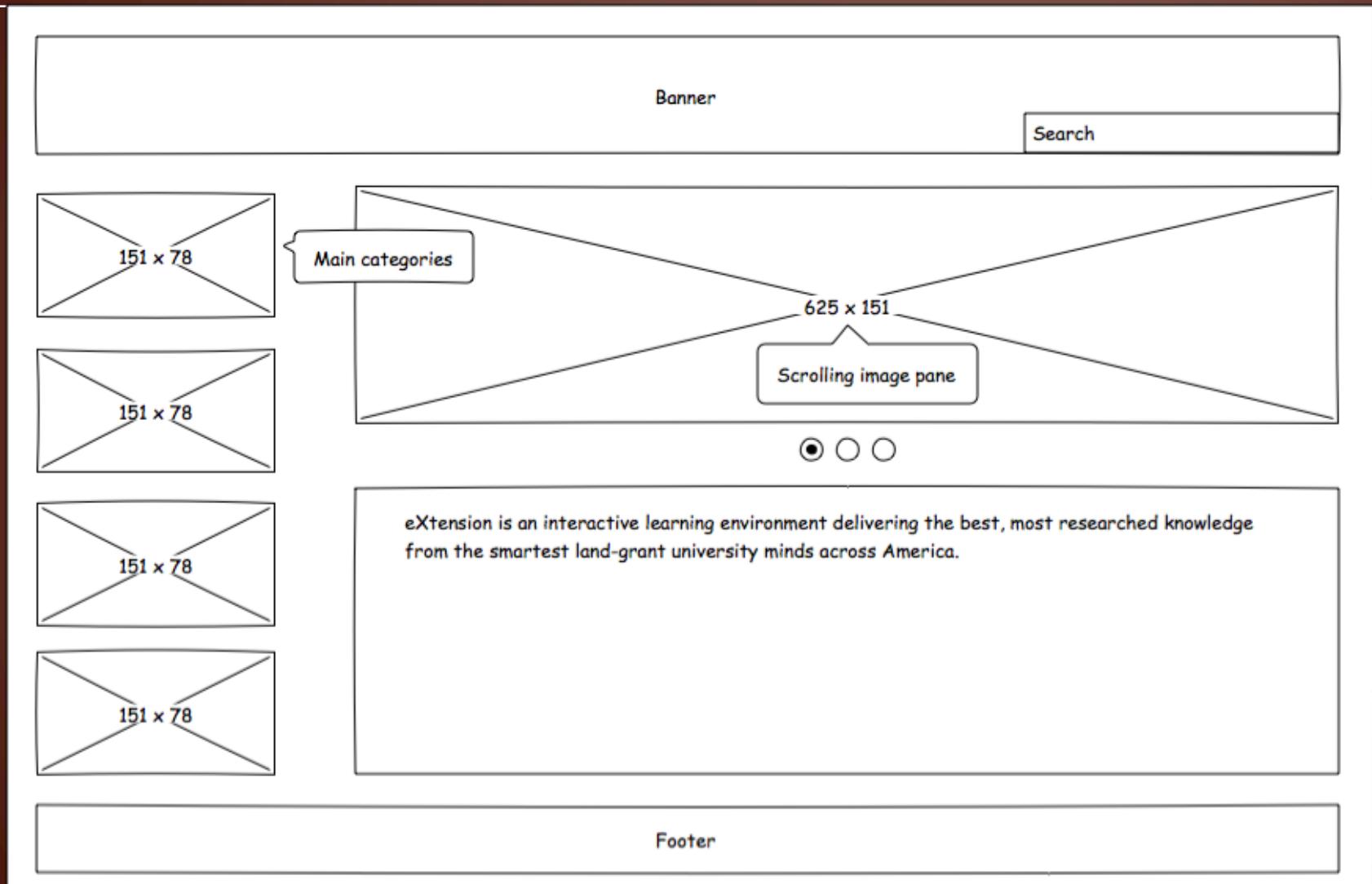
- What is For Youth, For Life?
- Defining Science, Engineering, & Technology
- Glossary Terms

Our People

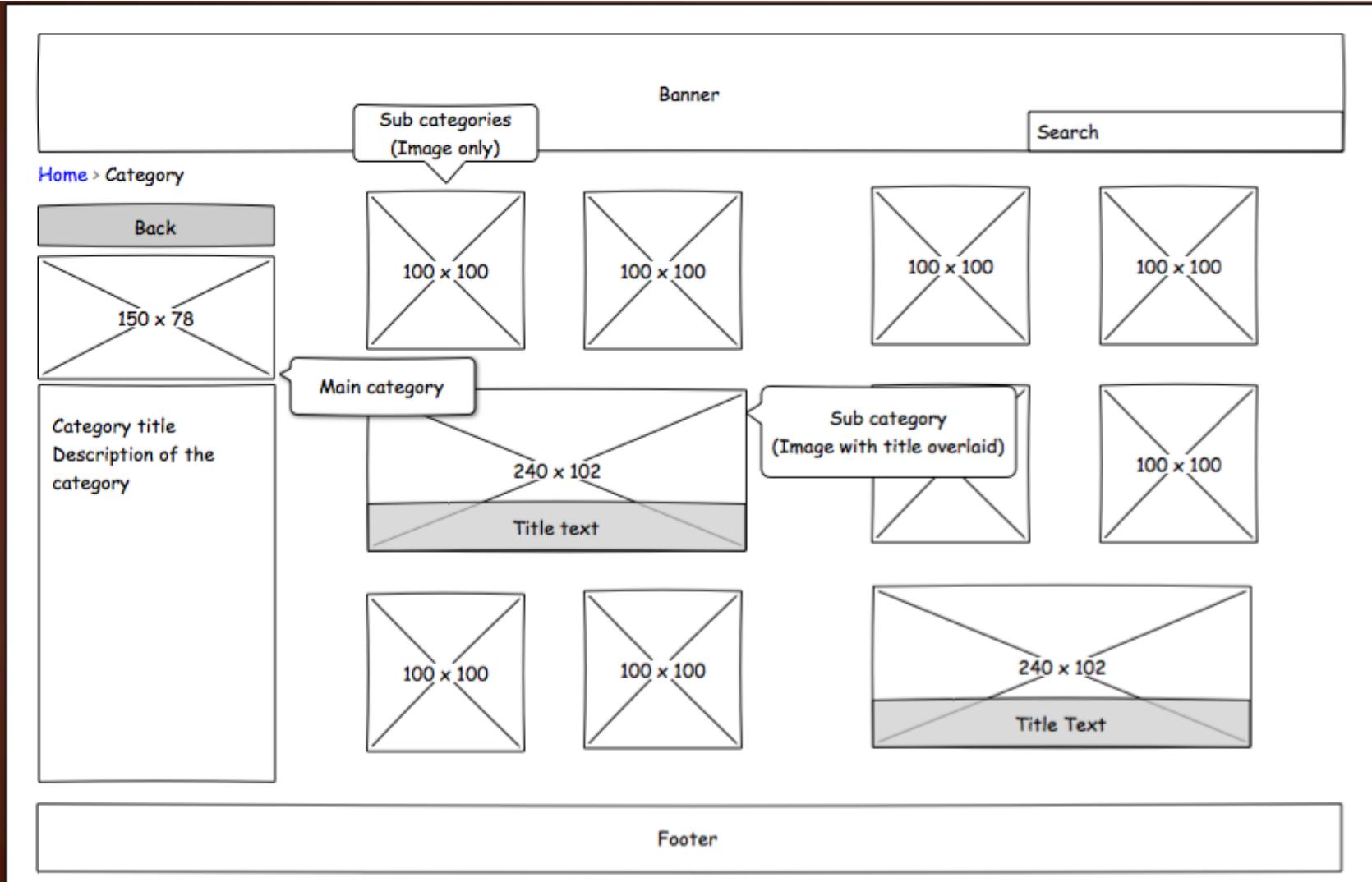


Water	Sample
Sample	Sample

Conceptual Model: Wireframes



Conceptual Model: Wireframes



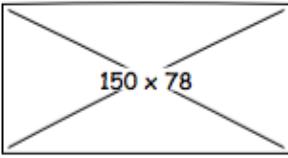
Conceptual Model: Web

Banner

Search

Home > Category > Sub category

Back



Related Articles

Related article 1

Related article 2

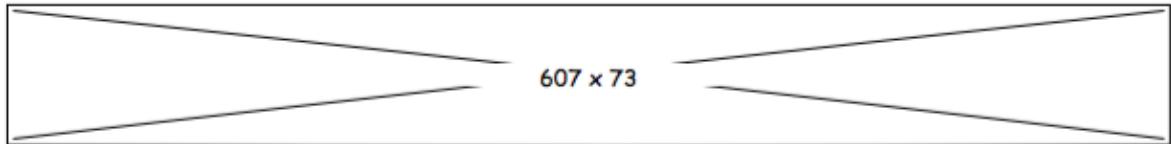
Related article 3

Related article 4

Related article 5

Related article 6

Ag Zone



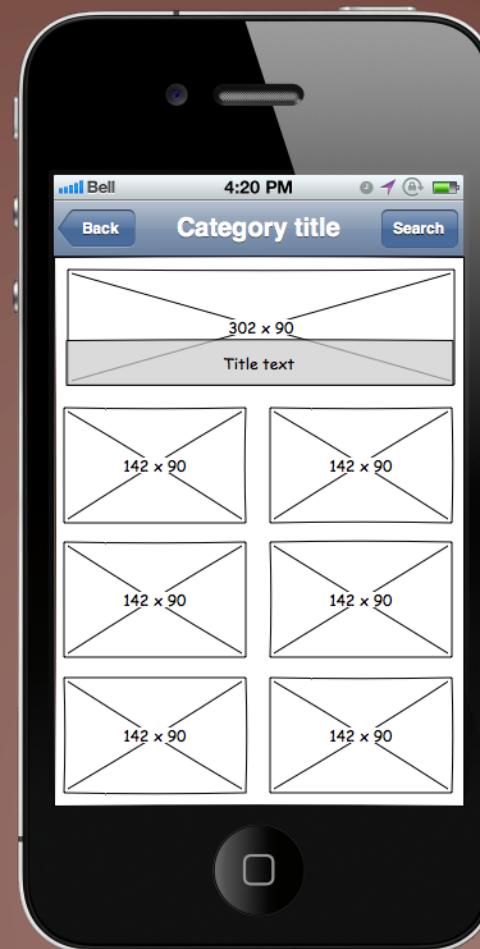
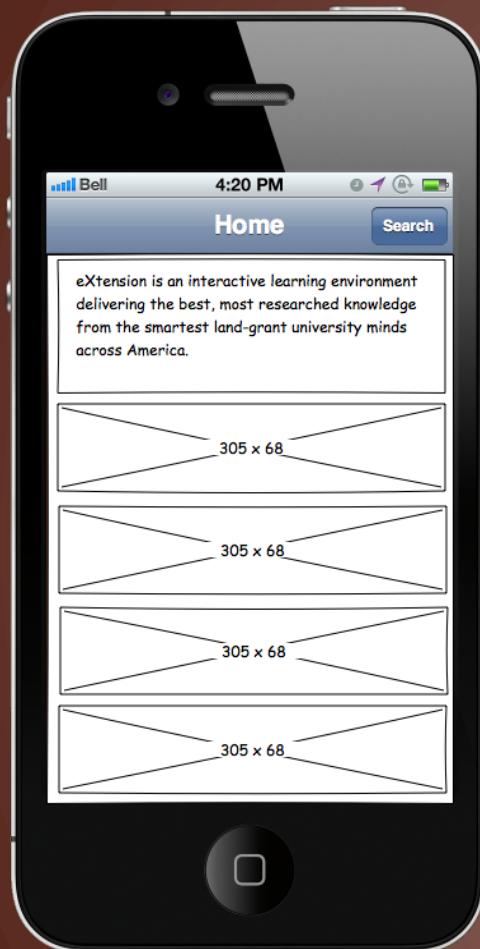
Begin your exploration of **agriculture** and how the world produces food and fiber for the present and will for the future! Just what is agriculture and why is it important?

Have you ever wondered where your food comes from? Here at eXtension.org, we want to help you figure out just what it takes for your food to get to you!

How do people across the world produce their food? Where will our food come from in the future? Explore these topics and more through articles here on many topics about agriculture. Go to the FAQ Index or enter your question in the search box! The number of FAQs continue to grow with questions that come from people like you! So, if the answer is not found here today don't give up. **Keep exploring!**

Footer

Conceptual Model: iPhone



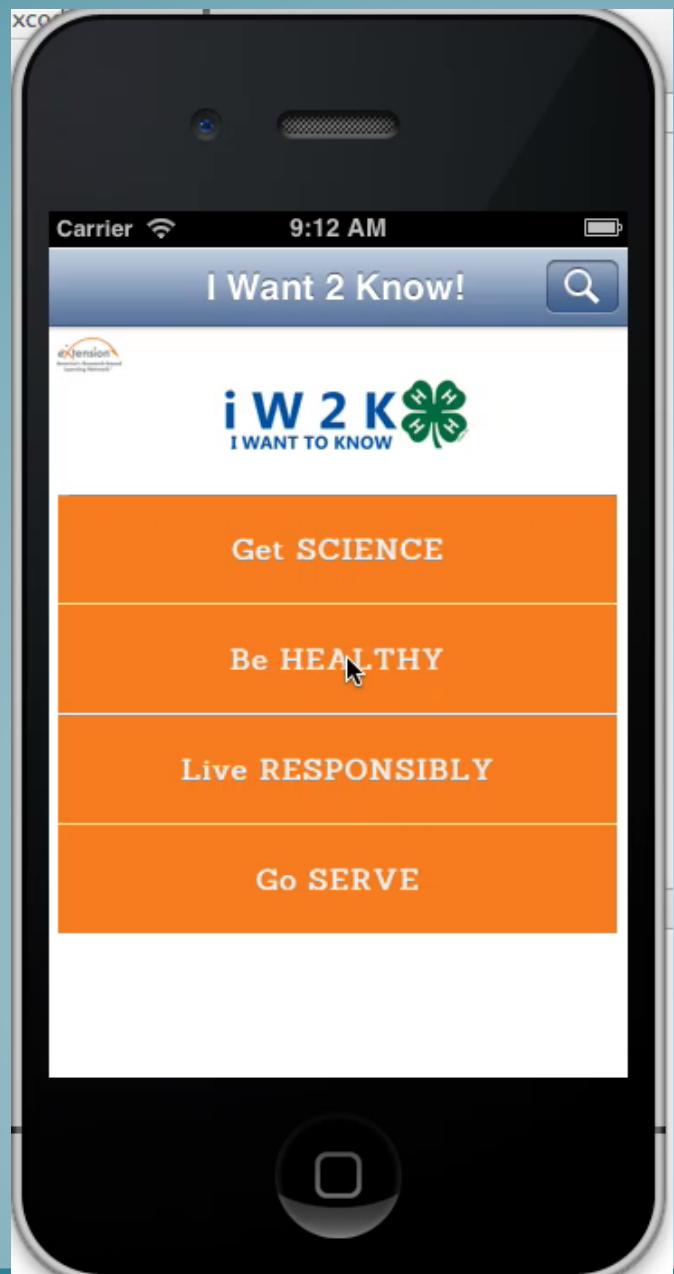
How Most of This was Changed

- Our first iteration had all of the correct elements and we did keep them all however...
- We changed the site to fit a fluid grid layout so all content flowed easier across platforms.
- **No content has to be rewritten for mobile or tablet platforms!** Saves time, money, and prevents second class platforms.

Implementation Overview

- Hardware requirements
 - Apache web server (backend)
 - MySQL database server (backend)
 - PCs running modern day browsers. Internet Explorer 7+, Chrome, Firefox, Opera (frontend)
 - Mobile devices that support HTML5 (frontend)
 - Internet connectivity (both backend and frontend)
- Software requirements
 - Web browsers with HTML5 support (Google Chrome, Firefox, Safari)
 - Mobile OS such as Android, iOS, BlackBerry, Windows Phone, that support browsing HTML5 web sites

Demo



Evaluation

- We performed Remote testing which is appropriate for our project since it is a web-based application (mainly).
- Web Interface is similar to mobile application interface.
- We carried
 - Pre-survey
 - Usability Testing
 - Post-survey

Results

Positive	Negative
The text is easy to read	Compatibility issues with Internet Explorer 6 or lower.
The application interface fits my device	Need more data from kids
A child could use I Want To Know	
The site is easy to navigate	
The site is attractive	

Future Work

- Integrate with extension.org MySQL database.
- Dynamically generate category and article buttons based on browsing analytics and content on the server.

Thank You !!