

MICHIGAN STATE
UNIVERSITY

Project Plan

Reader Mode for Desktop Firefox

The Capstone Experience

Team Mozilla

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Fall 2012



*From Students...
...to Professionals*

Project Overview

- Reader mode for desktop Firefox
- Reading list for saving reading content for later viewing
- Easy syncing between different devices



Functional Specifications

- Reader mode will feature a significant user interface change when compared to normal web browsing through Firefox
- Reader mode will present important information from websites in a clean and simple format
- Reading List will work in a similar fashion to bookmarks



Design Specifications

- Use of Readability.com API for determining what content to display
- Tie in to existing bookmark functionality when creating reading list
- Extend existing Firefox Sync functionality to handle reading list
- Build upon Mozilla's open-source code base



Screen Mockup: Reader Mode

Zuckerberg: No Facebook phone in the works, but new products coming - CNN.com



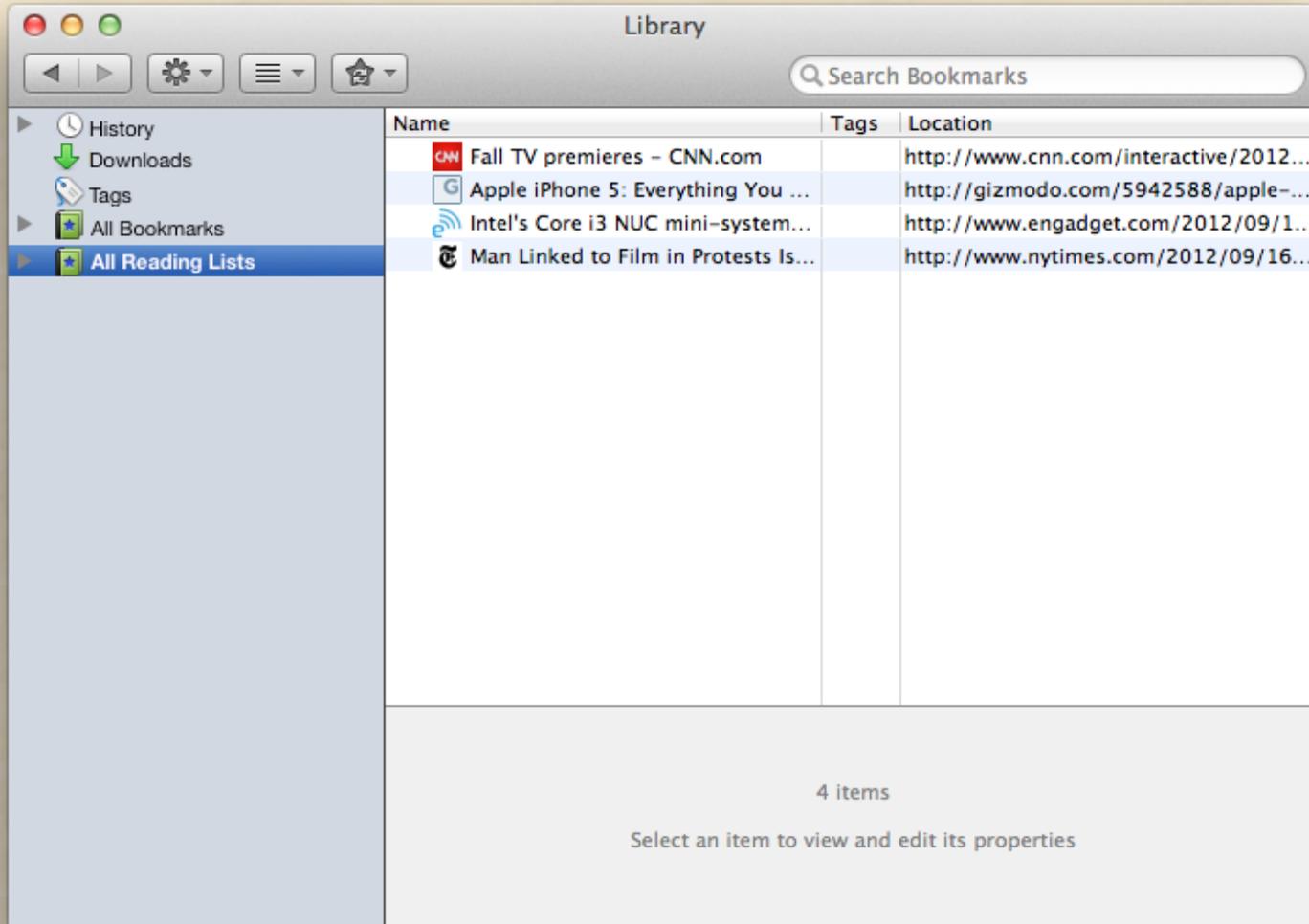
(CNN) -- Facebook has been quiet for the past six months, but only because it's been working on new products. No, one of them is not a Facebook Phone.

"The phone just doesn't make any sense," said a smiling but adamant Facebook CEO Mark Zuckerberg when asked whether he was working on the mythical Facebook smartphone. The rumor that the social network is working on a physical phone has been bouncing around for years. As recently as July, [Bloomberg reported Facebook was working with HTC](#) on a smartphone for 2013, citing sources with knowledge of the matter. Zuckerberg insisted that the number of users the company could reach with a hardware offering "doesn't move the needle for us."

Zuckerberg made the comments during a rare press appearance on Tuesday at the TechCrunch Disrupt conference in San Francisco. He was interviewed on stage by Silicon Valley blogger and investor Michael Arrington in front of a fully packed auditorium. The Facebook founder and chief executive has stayed out of the spotlight for the past four months since his company went public. In that time, Facebook's stock has plummeted from its opening day price of \$28 a share to around half



Screen Mockup: Reading List

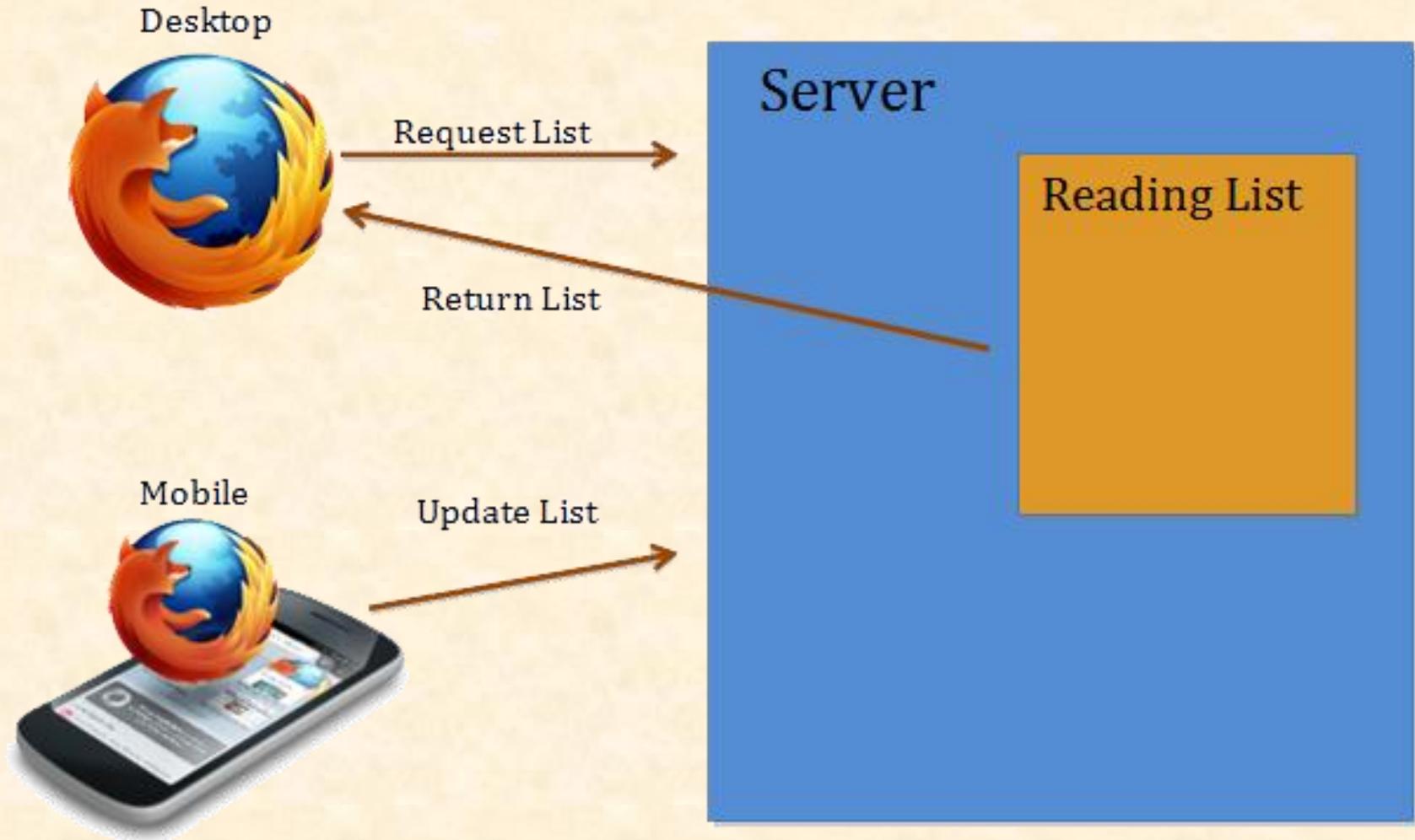


Technical Specifications

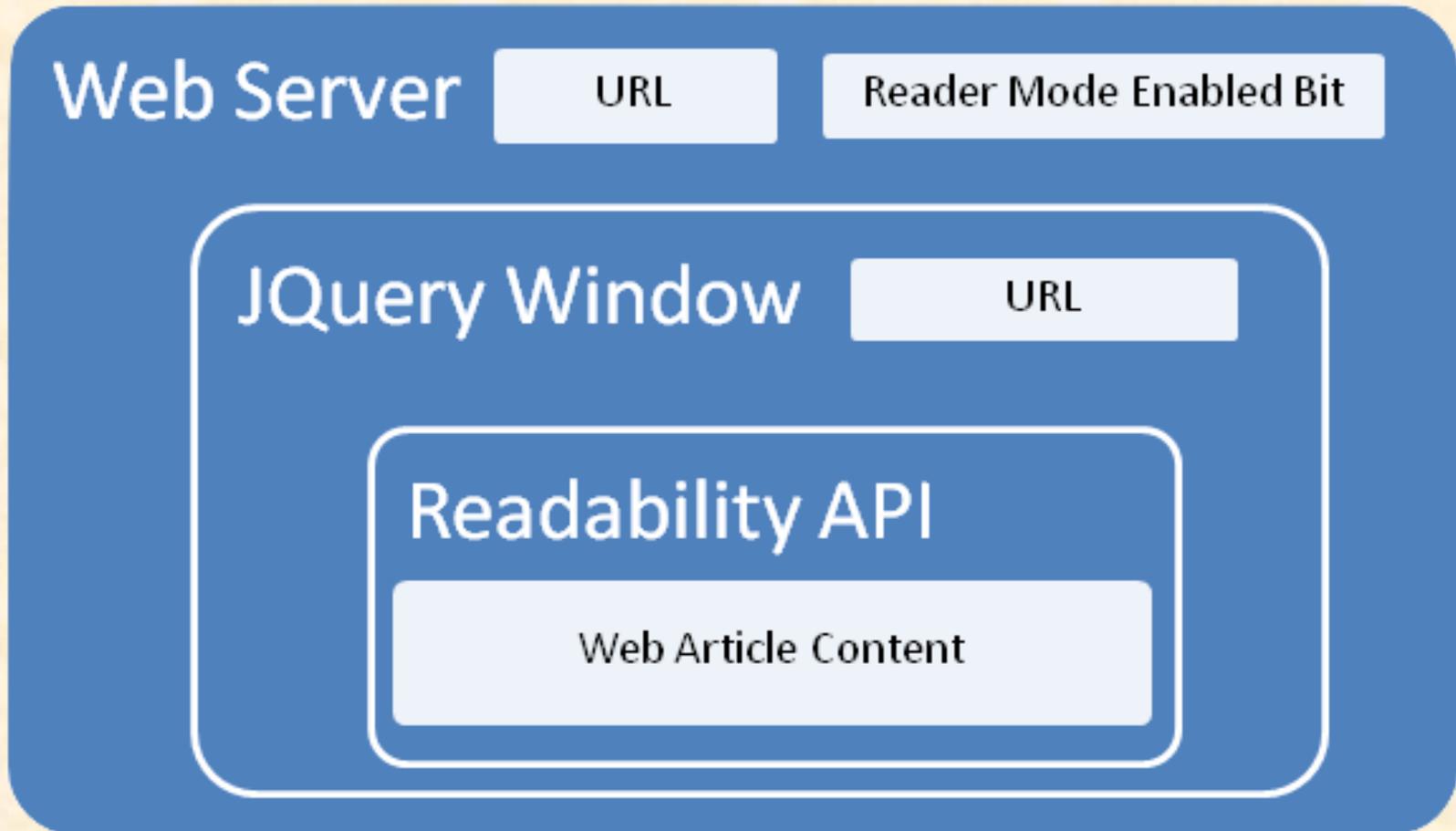
- JavaScript will be used to obtain data for reader mode to display
- JQuery will be used to bring up the window overlay for reader mode
- Window is styled with CSS and structured with HTML and XUL
- Reading List is cached in a SQLite database



System Architecture



System Architecture



System Components

- Hardware Platforms
 - Web
 - Android
- Software Platforms / Technologies
 - JavaScript
 - HTML / CSS
 - XUL



Testing

- Mochitests
- Browser Tests
- Unit Tests
- Tinderbox Push Log



Risks

- Firefox Sync
 - Research into existing bookmark syncing and how that interacts between the desktop and mobile platforms
- Bugzilla
 - Fix simple bugs to learn process of pushing changes to Mozilla source
- Web Development
 - Learn from Chelsea
 - Follow tutorials
- Readability.com API
 - Look into how this API was used for Android Reader Mode

