
ECE 1778: Creative Applications for Mobile Devices



Lecture 4
February 1st, 2011

(1)

Today

1. Logistics
2. Case Studies
3. Discussion of Proposals

Logistics

Assignments P2 & A2 Due Today

■ Issues?

Assignment P3 and A3

- Will postponed to next week, due Feb 15th
- Prefer you focus on your plan this week
- Need to finish acquiring phones,
 - will need phones for assignments going forward
 - Will be providing one phone per group, which you'll have to share

Groups

- Appears to be a number of people registered who are not in groups
 - 58 registered;
 - 45 in groups
- Not sure if they've just forgotten to drop course?
- Still some newly arrived people?

Project Timeline

1. Forming Groups

- Should be done; still some stragglers

2. One-Page Proposal

- Today; Must receive approval to proceed

3. Design Plan

- Due Feb 8th

4. Plan & Progress Presentations

- Weeks of March 8 & 15

5. Final Presentations

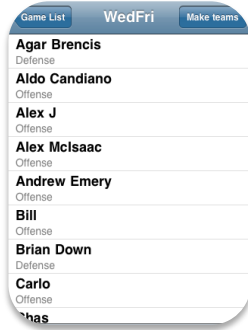
- Weeks of April 12 & 19

6. Final Report Due April 26th

Plan Due Next Week: Feb 8

1. Reprise Goal, make more precise
2. Rough design of what the user sees
 - Mock-ups of screens
 - <https://gomockingbird.com/mockingbird/>
 - Any drawing package will do
3. Block Diagrams of Code
 - Top down
 - With short prose description of each
 - Should be linked to the screens

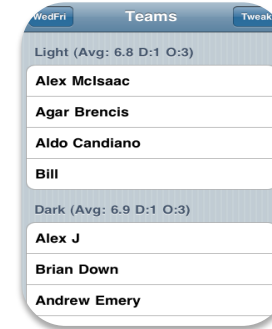
Team Chooser Block Diagram



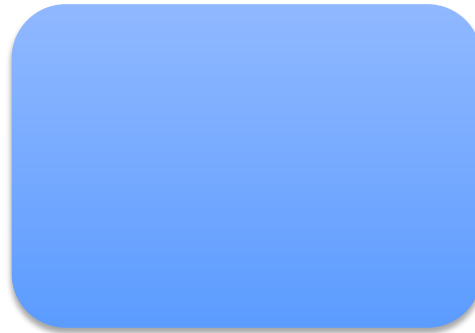
Display Team



Edit Player



Make Teams



Root
Controller



Display
Games

Plan, continued

4. Statement of Risks/Issues

- What roadblocks/issues/challenges do you foresee?
- App-wise, programming-wise, hardware-wise, ethics-wise

5. What do you need to learn that you don't know

- all members

6. **Important:** for Groups with Appers

- Submit a separate essay on how App relates to field of Apper, and how the Apper will contribute to project
- 1000 words

Plan Document

- Plan length: 5-10 pages,
 - not including Apper essay (#6)
- Seeking clarity, not quantity of words
 - Omit needles words

Phone Acquisition

- Planning to Purchase a LG Optimus 1 P 500 from Telus
 - Price: \$224.99 all in
 - Same as list price (for those who wanted to purchase own)
- Display 320 x 480 pixels, 3.2 inches
- Android 2.2 Installed
- Has a 3-axis accelerometer
- [http://www.gsmarena.com/
lg_optimus_one_p500-3516.php](http://www.gsmarena.com/lg_optimus_one_p500-3516.php)
- One per group for those groups without devices

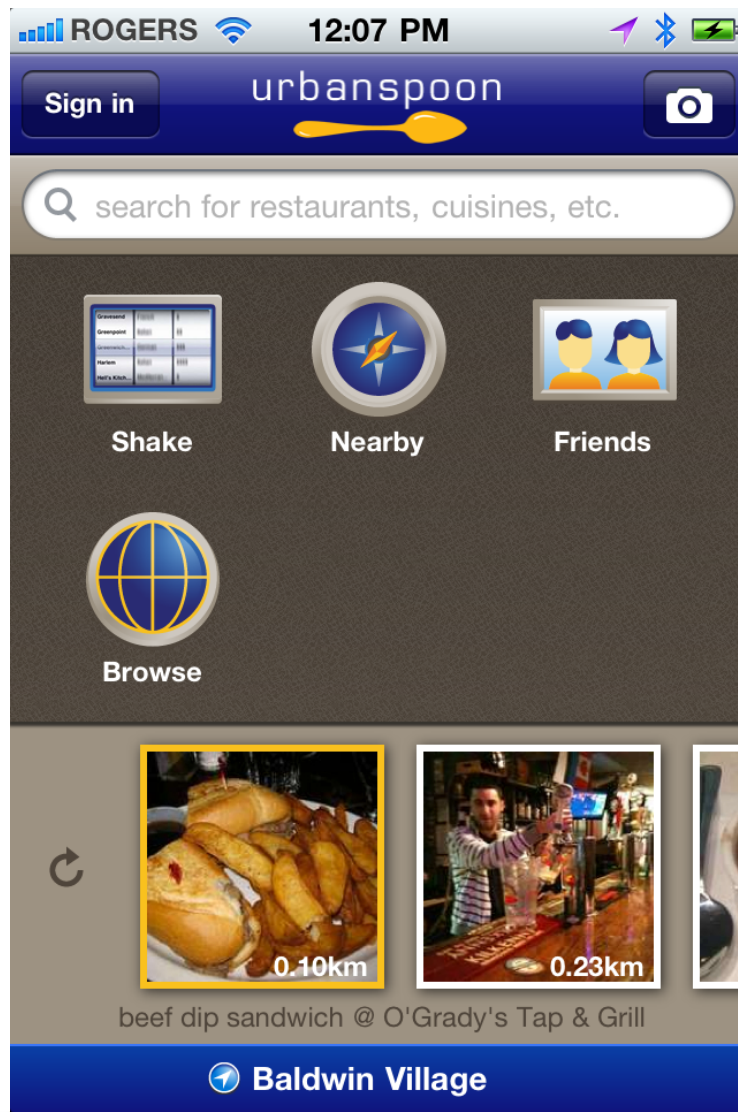


Case Studies

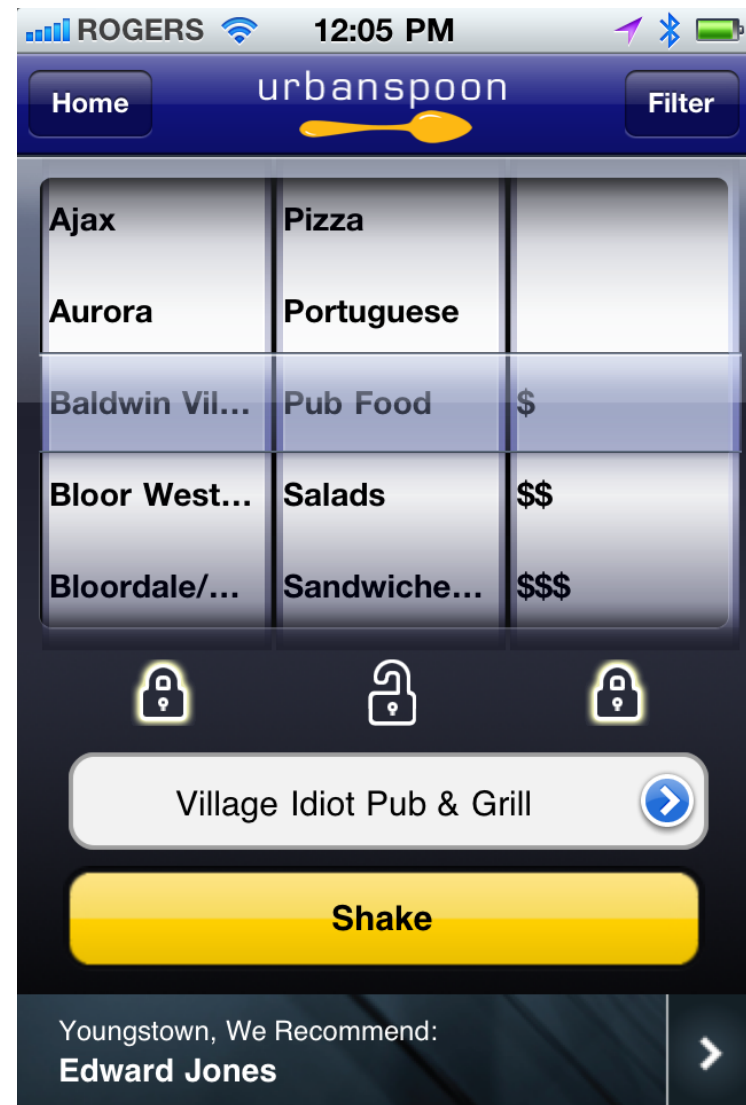
Urban Spoon

- Tells you where a local restaurant of any cuisine, price and neighbourhood is located
- Gets you a map there instantly
- Provides reviews

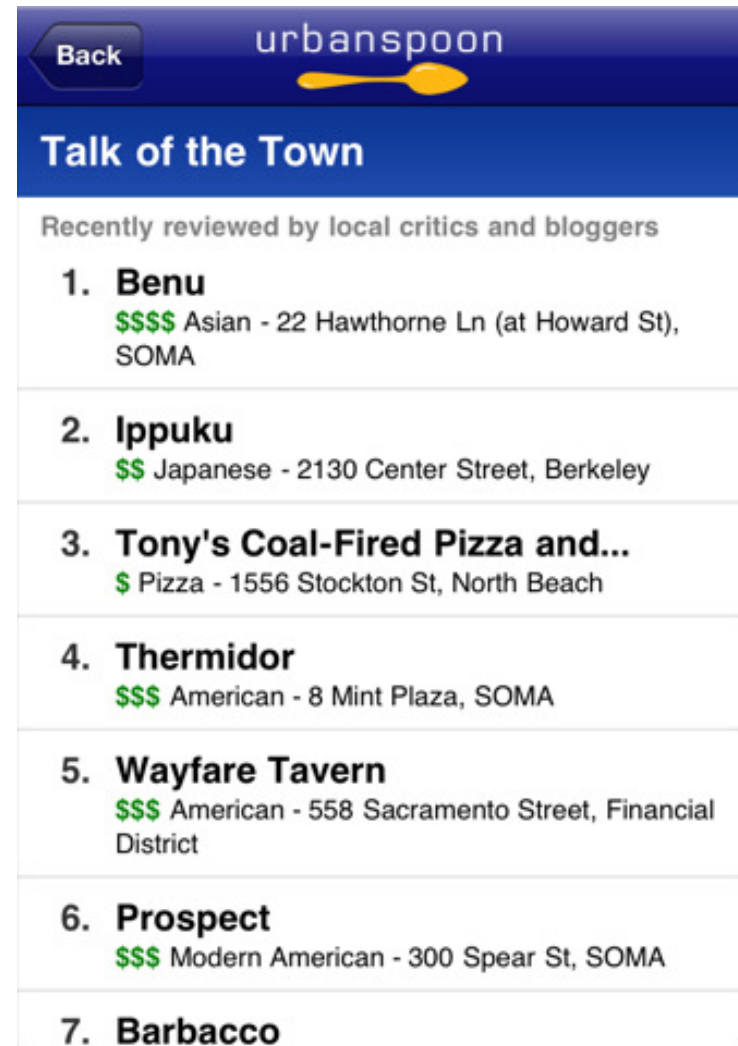
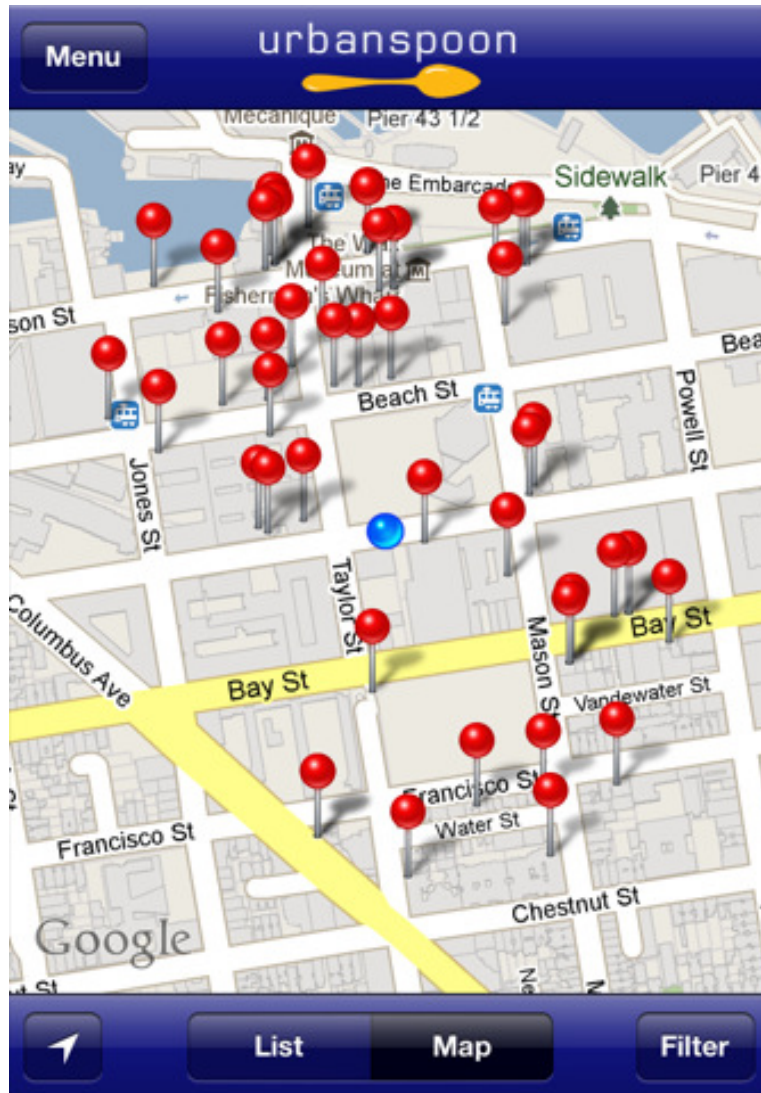
Urban Spoon



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Urban Spoon



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Red Laser


- Read bar codes of products and get information on them
- Also looks for various prices of product in online stores

RedLaser



ROGERS 2:11 PM

Scans Results

Celestial Seasonings Chamomile Herbal Tea 20 

From \$2.21 online

Nutrition and Health Facts

Allergen Info >
from FoodEssentials

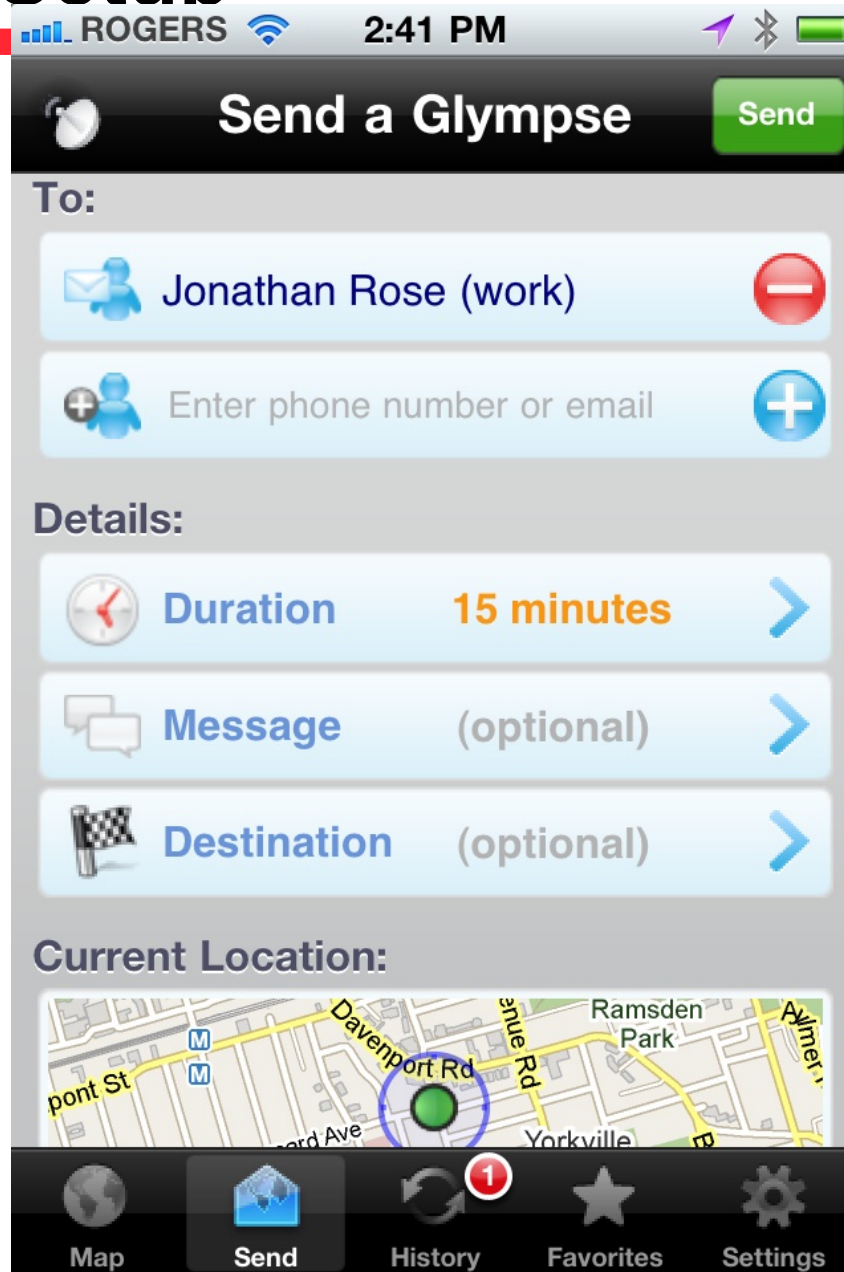
Google Search Results

CELESTIAL SEASONINGS...	\$2.49	>
Buy.com		
Celestial Seasonings Herba...	\$2.49	>
Kmart		
Celestial Seasonings Cham...	\$2.63	>
foodsofnature.com		
Celestial Seasonings - Cha...	\$2.69	>
LuckyVitamin.com		
Celestial Seasonings - Cha...	\$2.81	>
National Supplement Center		

Glympse

- Track where you are and tell people
 - Via email, then web server with moving map

Glympse Setup

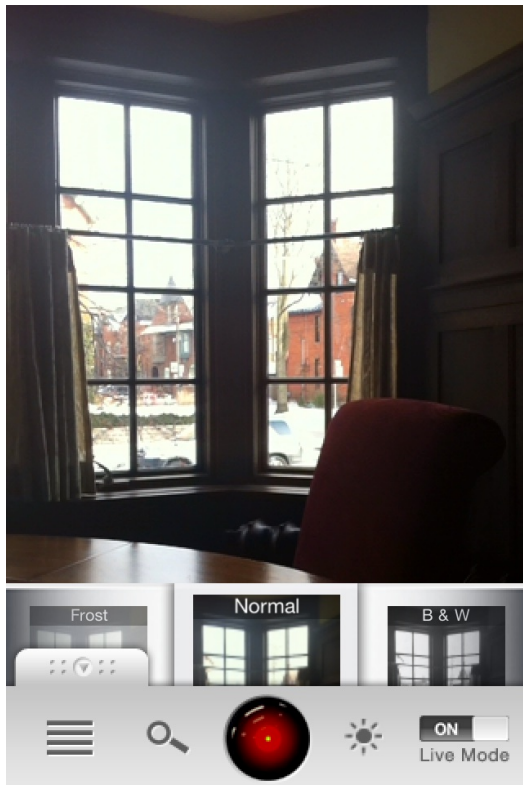


Web Page Tracker

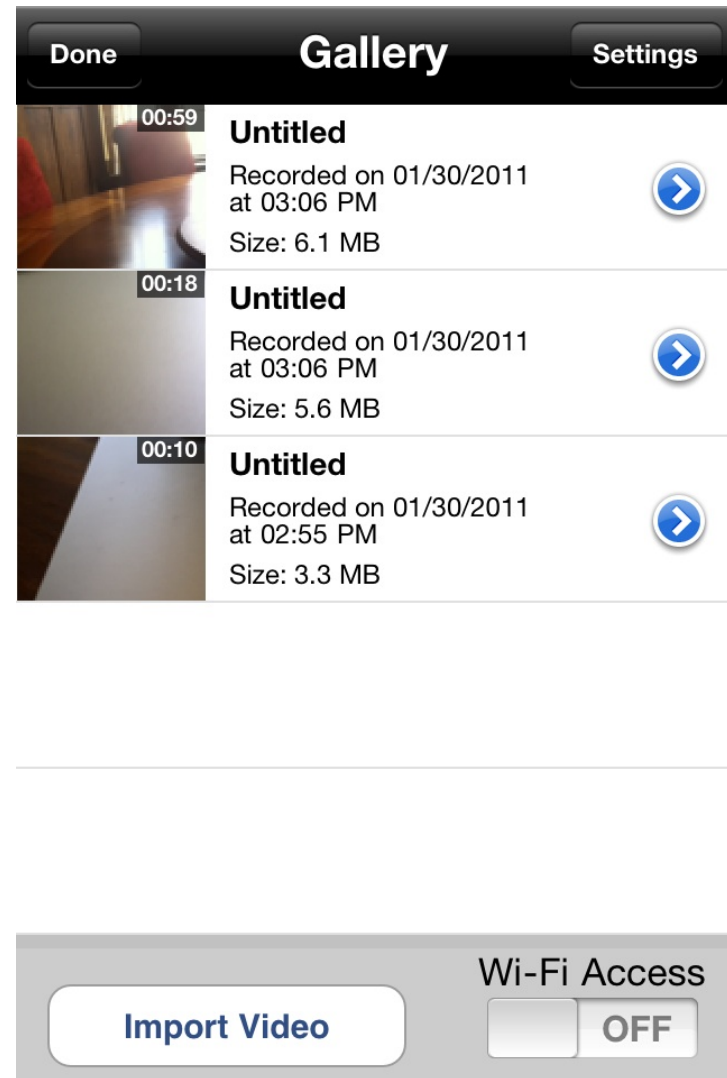
The screenshot displays the Glympse web application interface. At the top, a dark blue header contains the Glympse logo and the tagline "Share your where". Navigation links for "What is Glympse?", "Get Glympse", "Help", and "Home" are positioned on the right. The main area features a Google Map of Toronto with a green location marker on Davenport Rd. A white profile card for user "JSR" is overlaid on the map, showing a silhouette icon, the text "Here's where I'm hangin out ...", a speed indicator (dashed green line), and an expiration timer set to "00:05". The map interface includes a "View" dropdown set to "Street", a "Mode" dropdown set to "Map", and a "Travelling" button. A "View an additional" button with the Glympse logo is also visible. The bottom of the map shows "POWERED BY Google" and "Map data ©2011 Google - Terms of Use".

Qik

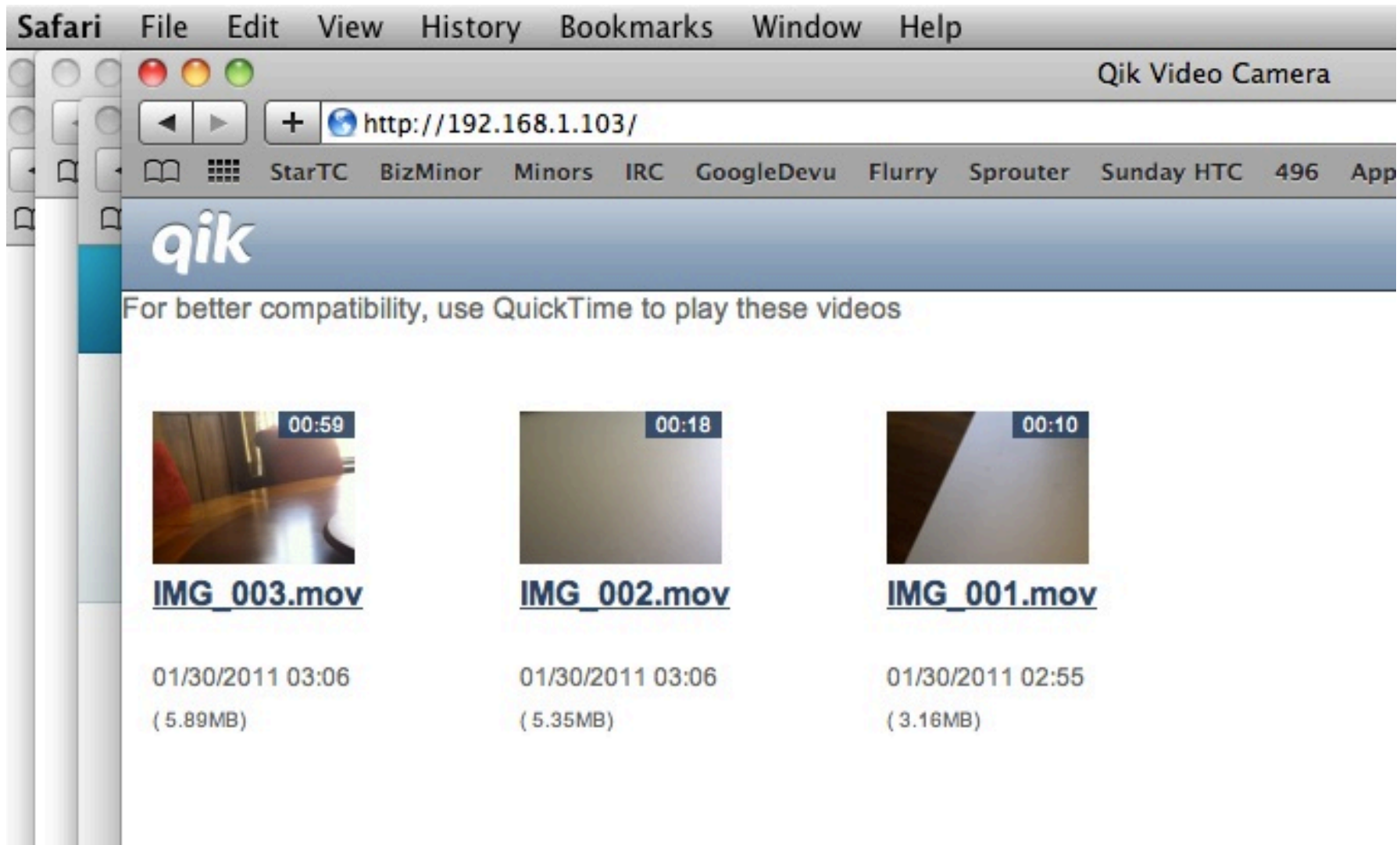
- Live Video Broadcast
- Video capture to cloud & local



(22)



Local Server!



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Proposals

Notes

- Goal is to discuss the submitted proposals
 - Add ideas
 - Refine
 - Make tractable
 - approve