TVEYE FINANCIAL NEWS

Grand Valley State University
School of Computing
CIS467 Senior Capstone Project
Nathan Bowman, Erin Carrier, Cory Hagerman, Greg Zavitz

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GVSU QUICK FACTS

- Established 1960
- 1,985 Faculty and Staff
- ~25,000 Students
- 78 Undergrad Programs
- 29 Graduate Programs

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PADNOS COLLEGE OF ENGINEERING & COMPUTING

- PCEC consists of:
  - School of Computing
  - School of Engineering
- 1530 students total
- Undergraduate and Graduate degree programs.

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INTERNSHIPS / CAPSTONES

- Internships
  - Required by all EE, CE, CS & IS Majors / Minimum 16 hours weekly
- Senior Capstone Project
  - Required by all EE, CE CS & IS Majors.
  - Teams of students work on projects sponsored by external corporations.

MOBILE APPS & SERVICES LAB

- Mobile app experimentation in the wild:
  - retail, healthcare, mobile payment
  - social integration / gamification
- More Info: http://masl.cis.gvsu.edu

masl

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WHO WE ARE

Nathan Bowman

Erin Carrier

Cory Hagerman

Greg Zavitz

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THE PROJECT

- Android tablet application to accompany financial TV
- Magazine style news reader
- Assist back-end in learning user interest preferences

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FIRST STEPS WITH ANDROID

- Learning the basic fundamentals of Android
- Initial impressions of Android development
  - Using the available documentation
  - Availability of relevant code samples

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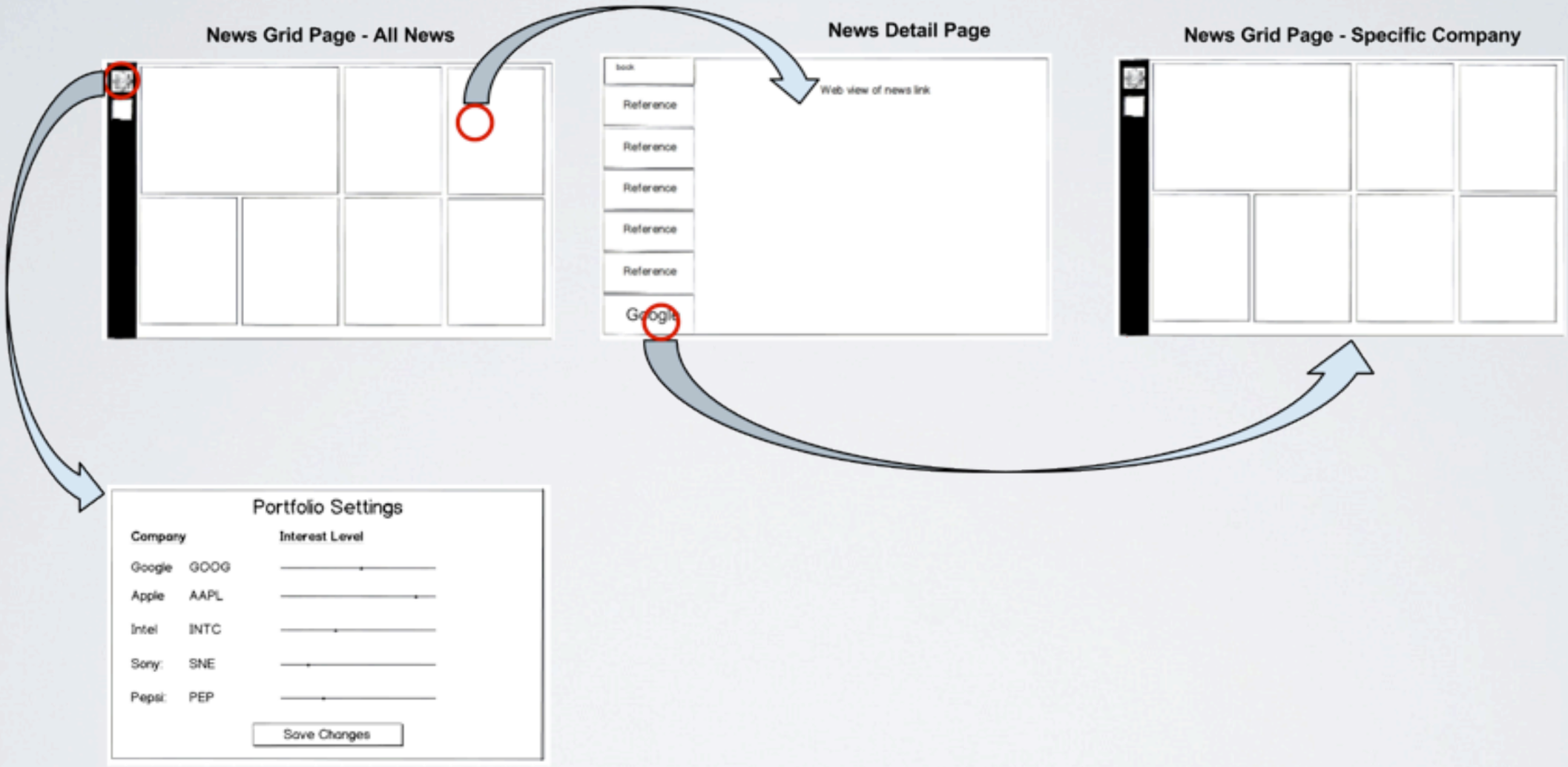
DESIGNING THE APP



- Application layouts and flow using myBalsamiq

ITS ALL ABOUT TEAM WORK

News Grid

News Article

Settings

TVEye

- Activity modularity made it easy to assign tasks
- Distributed source control made conflicts minimal

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APPLICATION DRILL-DOWN

Overall tablet application design inspired by the web application version of TVEye

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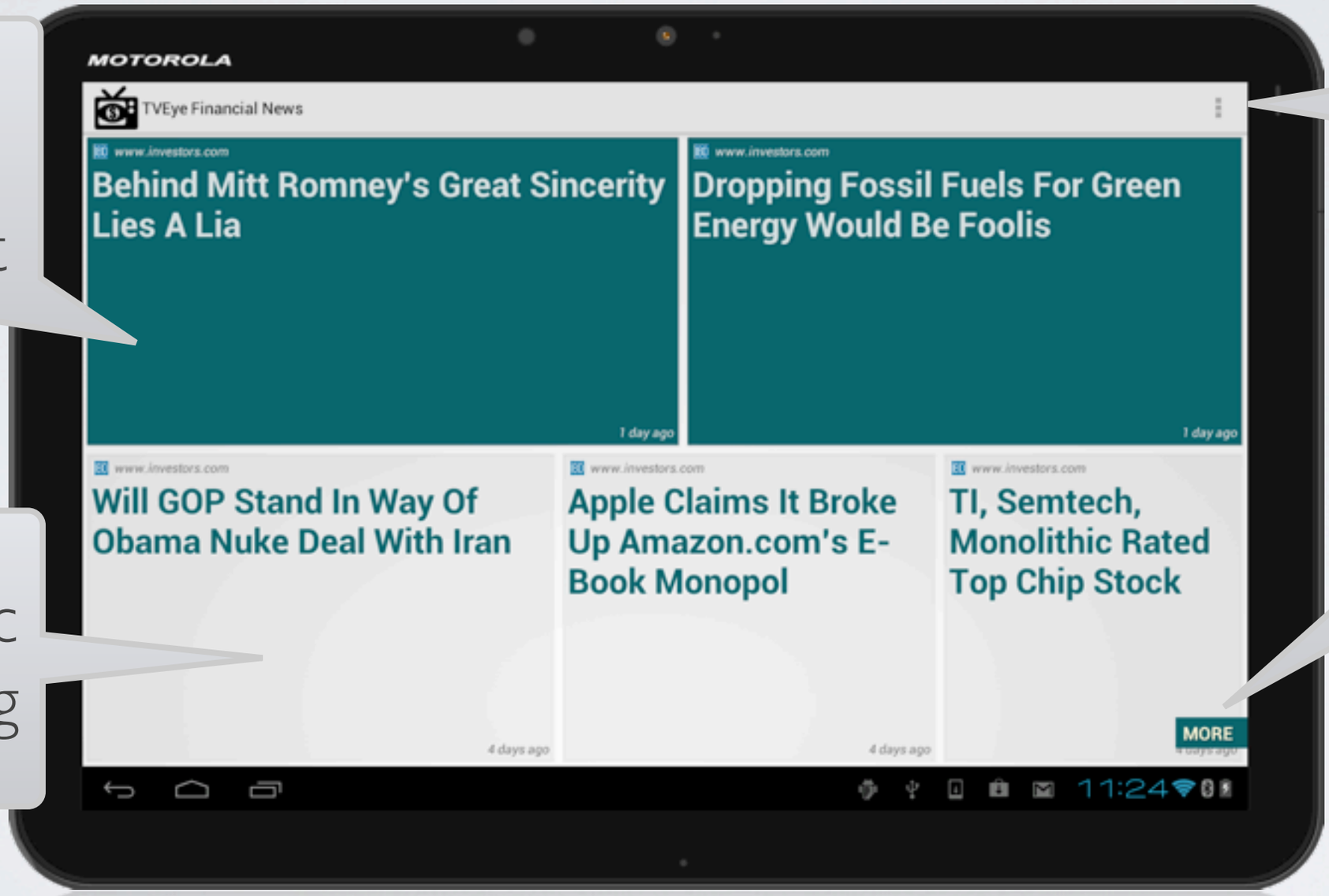
APPLICATION DRILL-DOWN

High interest highlight

Additional settings



Dynamic tile sizing

More articles

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APPLICATION DRILL-DOWN

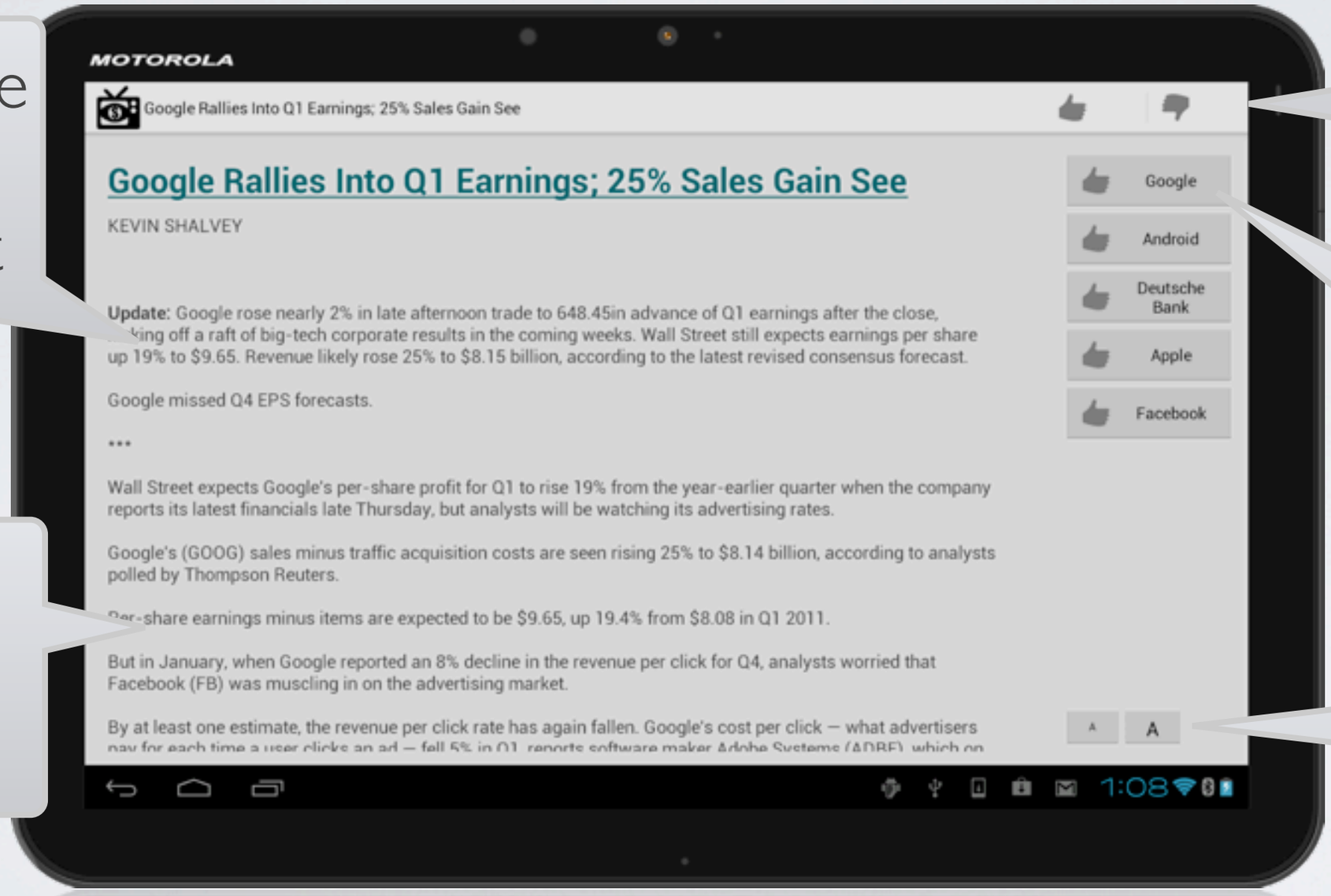
Scrollable article content

Implicit Interest

Explicit Interest

Individual explicit interest

Font size changing



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CHALLENGES

- Constantly changing design
- Working with an evolving API
- Determining the best techniques for learning user preferences

POSSIBLE EXPANSIONS

- Integrating with TV program identification
- More learning techniques, less user interface design

THANK YOU!

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