From Students…
…to Professionals

Project Plan
Virtual Dollar Dog Store

The Capstone Experience

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Functional Specifications

- Virtual Store that expands existing system
  - Ease of access
  - Convenient for remote users
- Teach children about banking
- Customer and administrator support
- Multi-platform
  - Web, Android, iOS
Design Specifications

• User functionality
  ▪ Purchase store items
  ▪ Create a wishlist
  ▪ Check transaction history

• Admin functionality
  ▪ Change user coin balance
  ▪ Update inventory and item details

• Target toward children ages 5-12
• Design should be light and kid-friendly
Screen Mockup: Log In
Screen Mockup: Catalog
Screen Mockup: Item View
Screen Mockup: Wishlist
Screen Mockup: Cart
Screen Mockup: Checkout

The Capstone Experience

Team MSUFCU Project Plan
Screen Mockup: Confirmation
Screen Mockup: Transaction History
Screen Mockup: Admin Login
Screen Mockup: Admin Catalog
Screen Mockup: Admin Item
Screen Mockup: Admin Edit User
Technical Specifications

• Schema with user information
  ▪ Filled with arbitrary values for development
  ▪ Will connect to MSUFCU’s corporate database

• Coins table, order, order items, and items table
  ▪ Update with purchases

• Must query tables with PDO for security

• Stretch goal: Text message sending by submitting request to given HTML
System Architecture
System Components

- Hardware Platforms
  - Windows, Mac or Linux devices
  - Android devices
  - iOS devices

- Software Platforms / Technologies
  - Web
    - CSS, HTML, Javascript, Bootstrap, Notepad++
  - Android
    - Java, Android Studio
  - iOS
    - Swift, Xcode
Testing

• Continuous internal functionality testing
• After Alpha presentation, share site with team acquaintances for design and functionality feedback
• After Beta presentation, share site with MSUFCU employees for design and functionality feedback
Risks

• Risk 1: Technology
  ▪ Description: Several issues setting up technology
  ▪ Mitigation: Frequent contact with Angie

• Risk 2: Integrating with Existing Software
  ▪ Description: Unclear because can’t receive access to user accounts
  ▪ Mitigation: Consistent contact with client for all info possible

• Risk 3: Consistency across platforms
  ▪ Description: Three different platforms and separate developers
  ▪ Mitigation: Frequent communication and assisting each other, good design

• Risk 4: Usability
  ▪ Description: Target audience is wide and tailored to kids
  ▪ Mitigation: Several UI reviews with client