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Transforming Bb Learn into a Research Engine: The little engine that could!

Tuesday, July 15, 2014
2:45 PM - 3:30 PM
San Polo 3401

#BbWorld14

Study Purpose & Methodology

- Screening Teens Early With Identification & Intervention (STEWii)

- Identify the prevalence of risk factors for the development of heart disease and diabetes in teens.

- Determine the effectiveness of a two part, reoccurring electronic education program (REEP) on influencing therapeutic lifestyle changes and reducing selected risk factors

- Quasi-experimental, descriptive/pre-post survey/repeated measures

- Four phases each include screenings, health indicator report (HIR) distribution, and REEP.

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Year One Demographics

- 166 Student Participants
- 2 High Schools (James Wood & John Handley)

Participants By Gender

James Wood: 25, 67
John Handley: 26, 48

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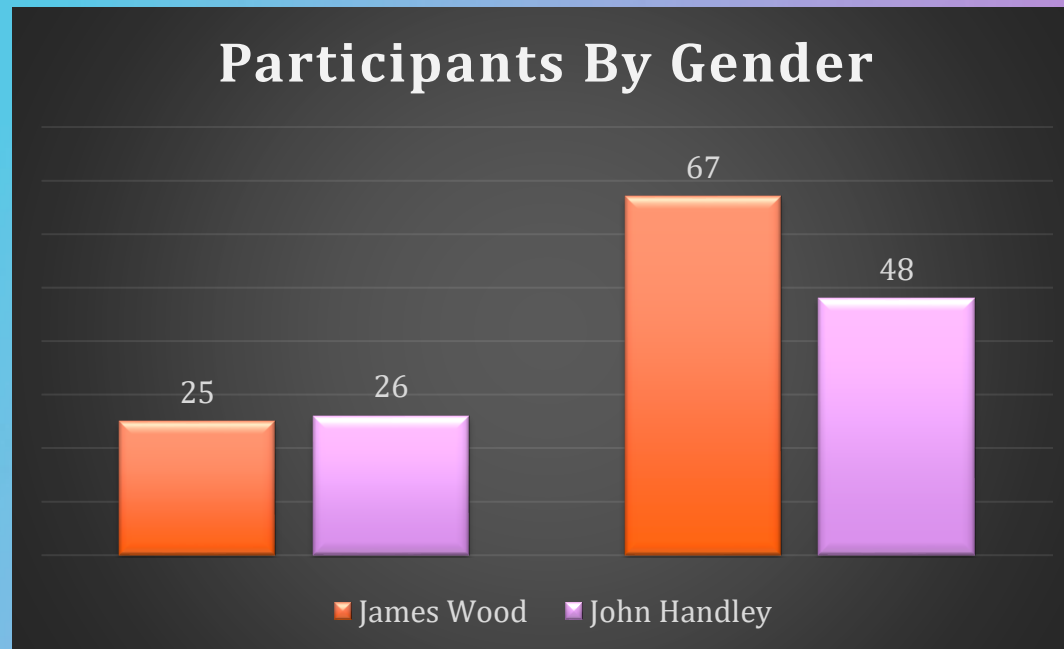
Study Key Partners

- **Shenandoah University**
  - Institutional Computing
  - School of Nursing
  - School of Pharmacy
  - Marketing & Publication
- **Sunrise Medical Laboratory**
- **Frederick County Schools**
- **Winchester City Schools**
- **Blackboard Inc.**

Blackboard Re-conceptualized

- Transformation of a LMS into a research model
- Development of a confidential & secure digital repository for research data
- Creative & innovative utilization of LMS tools and integration with LEARN
- Coding modifications for smooth utilization
- Pushing the envelope

The Beginning

- SU Google Document
  - su.edu/stewii
- STEWii Bb Domain

LMS Site Setup

- ## STEWii Specific Modules
  - ### Edit Personal Information Without Social
  - ### Change Password

- ## STEWii Tabs

- ## STEWii Roles
  - ### STEWii Research Project
  - ### Observer

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LMS Setup Continued

- STEWii Language Pack
  - 289 custom properties available

- STEWii Brand
  - Colors
  - Layout
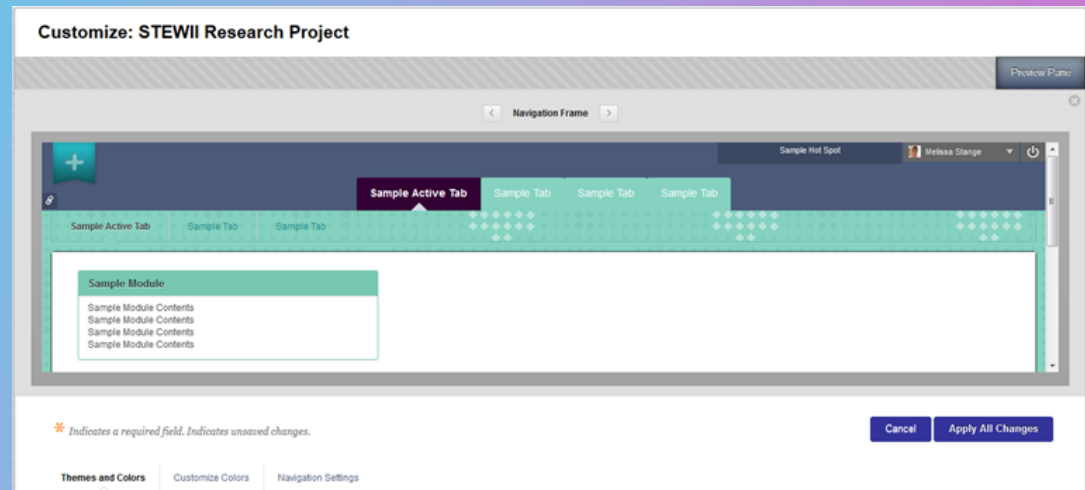
- STEWii URL Redirect
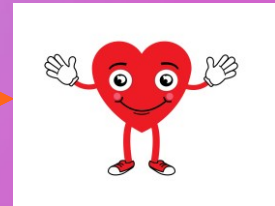 - GoDaddy Domain redirects to SU Bb

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Technology Launch

SU STEWii Email (stewii@su.edu)

- Creation & delegation
- Mail merge with Grade Center
- Google SMS shortcomings resulted in Bb Connect For Learn use

SU Marketing

- Created initial website
- Newspaper & SUN-e
- Animated STEWii Logo

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LMS Setup Continued

- STEWii Reporting Server
    - Built in Microsoft SQL Reporting Services
    - Secure login
    - Adhoc reporting tool

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Conversion Of Grade Center Into A Command Center a.k.a Screening Center

Communications	Smart Views	Laboratory Result
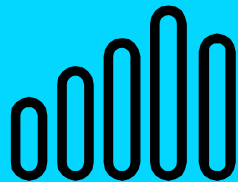
Trending Data	Upload/Downld Within Google Drive	Serial Data Collection

Integration of the Data: Health Indicator Report

Technology Involved

- Google Email & Spreadsheet

- Microsoft Word & Excel

- Bb Learn
  - Screening Center
  - My Screening Results
  - Batch Upload B2
  - Rubrics

STEWii Course

- Information/Directions/Online help
- Dedicated tabs to each risk factor with very specific lifestyle recommendations to modify each risk
- Interactive resources
  - For example: online food diaries and BMI calculators
- Easily accessible evidence-based websites (in lay terms) that address each health indicator for participants and parents

stewiistudy.com/

- Announcements/Notifications

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Technology Findings & Faults

- Communication must be multiple ways
- Assessment tool not mobile friendly
- Lack of Computers
- Lack of Internet Connection
- Poor Typing Ability
- Bb Item Analysis Shortcomings
- Bb User state field textbox
- Demographic Data cannot be seen via course
- Bb Reporting Limiting
- Need for multiple application integration
  - Bb Connect For Learn Limiting
  - Google Limiting

Mobility

- STEWii Mobile App
  - STEWii Study (Android, iPhone)
- STEWii Mobile Site
  - http://stewiimobile.su.edu/
- Twitter
  - @STEWiiSU
- YouTube
  - Videos

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What's Next

1. Three more years of 6:00 am STEWii draws (2015-2017)
2. Data Analysis & Reporting
3. Development of the first of it's kind E-Rubric that will deliver a single Framington-like Score for Teens
4. Advanced Usage of Bb ConnectTxt
5. Creation of the Northern Virginia Technology Council

Contact Information & Feedback

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