Problem Statement

Introduction...Problem Statement

Our Client: Convention Centers
- Many Halls
- Many simultaneous events.
- Last minutes changes or cancelation in activities.
- Misuse of resources (paper, ink, employees time)
- Visitors are disoriented or lost.

J3 Solution

- Wireless display devices
- Webpage with dynamic event Information.
- Application to manage events and devices.
- Online Database.
- This will:
  - Provide attendees with greater satisfaction.
  - Save the administration time, effort and money.

Software Solution

ISCC Main Application

Development:
- Microsoft Visual Studio E.E.
- C#

Features:
- Add/Delete/Edit Users, Halls, and Events
- Enter and edit Convention Center information
- Send information to display devices
- Information stored to online Database
- Help: Link to User Manual
- Others
Main Application Graphic User Interface

Software Solution
ISCC Web Application
Development:
Asp.NET framework
C# Code behind
Ajax Controls

Advantages:
Reliable
Real Time
Accurate Information
Remote Accessibility

Features
Display Activity information via Web
Activity
Date / Hour
Hall number (Location)
Presenter
Additional Information
Contact Information

Search
Activity search by Name, Date, or Hall.
Contact Us form

Main Application Graphic User Interface

Navigation Menu
Current Date
Links to Search and Activities

ISCC Website Homepage

Database Design
The database was designed using Microsoft’s Sequel Server Express
The database is hosted online and it is accessed by both the ISCC Main application and ISCC Website.

Database contains:
Users information
Events information
Halls information
Company details

ISCC Hardware
Features:
Display List of Events
Display Event Information
Wireless Communication
Real Time Clock
Navigation Buttons
Reset and Power Buttons
Status LEDs
Compact and easy to install.

ISCC Hardware Schematic

Database Design
The database was designed using Microsoft’s Sequel Server Express
The database is hosted online and it is accessed by both the ISCC Main application and ISCC Website.

Database contains:
Users information
Events information
Halls information
Company details

ISCC Hardware Features:
Display List of Events
Display Event Information
Wireless Communication
Real Time Clock
Navigation Buttons
Reset and Power Buttons
Status LEDs
Compact and easy to install.
ISCC Wireless Display Device

Gantt Chart
Schedule - On Time!

Project Budget

<table>
<thead>
<tr>
<th>Category</th>
<th>Proposed Cost</th>
<th>Actual Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel</td>
<td>$23,205.00</td>
<td>$11,550.00</td>
</tr>
<tr>
<td>Software</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Hardware</td>
<td>$770.00</td>
<td>$752.40</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$69.75</td>
<td>$69.75</td>
</tr>
<tr>
<td><strong>Project Cost</strong></td>
<td><strong>$24,034.75</strong></td>
<td><strong>$12,372.15</strong></td>
</tr>
<tr>
<td><strong>75% Overhead</strong></td>
<td><strong>$18,026.06</strong></td>
<td><strong>$14,227.98</strong></td>
</tr>
<tr>
<td><strong>Total Cost</strong></td>
<td><strong>$42,070.81</strong></td>
<td><strong>$26,697.15</strong></td>
</tr>
</tbody>
</table>

Risk Materialized

- Risk Materialized:
  - One team member fails in his/her tasks, or quits.

- Risk Management:
  - Redistribution of tasks. All three members worked on Hardware. Accelerate software tasks to focus mainly on hardware.

Deliverables

- Functional prototype of the hardware device
- Administration Software
- Information System Website
- Proposal, progress, and final reports
- Test Documents
- Software and Hardware User Manuals
Conclusion
✓ Our product was finished on time and fully functional with all of the proposed features.
✓ We learned to work better as a team and manage risk during the development of the project.
✓ Better understanding of hardware components.
✓ Future Work: Color Display, compact, power saving mode.

Acknowledgments
✓ Capstone Professors and TAs: Nayda Santiago, Fernando Vega, Manuel Rodriguez, Jose Javier Rodriguez (Dices)
✓ Other Capstone Teams who helped us in any way.

Questions