IPRO 308

Developing Web-based Applications for

Northern Illinois Hockey League

PROBLEM STATEMENT

- Yearly NIHL scheduling is done by hand
  - Expensive
  - Chaotic
  - Time-consuming
  - Inefficient

- Statistic Management
  - Low-tech
  - Outsourced
  - Performed by hand

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Last Semester

- Developed a web based application
    - Statistics entry and display
    - Scheduling and matchmaking
    - Visual interface design

GOALS

1. Streamline League/Club/Team managers' annual operations.

2. Complete algorithm

3. Design/Develop/Execute Usability Test

4. Redesign Interface

5. Implementation

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THE TEAM - anNIHLators

Algorithm

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Design

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Usability

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PROCESS

- Design
  - Site consistency
  - Site mock-up
  - Redesign

- Usability
  - Analysis
  - Develop usability test plan
  - Conduct usability test
  - Recommendations

- Algorithm
  - Matchmaking
  - Test cases

Current Design

Proposed Design

PROCESS: Algorithm

- Algorithm function

- Code priority based on home/away ratio
  and playing unique teams

-Time complexity

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Obstacles/Anticipated/Challenges

-Development for backend system

-Getting volunteers for usability testing

-Obtaining pertinent information
　　　　　from usability testing debugging

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Ethics

-Usability Testing

-Copyright infringement

-Sharing any users personal information

Questions?

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