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

Last Semester

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



- 1. Streamline League/Club/Team managers' annual operations.
- 2. Complete algorithm
- 3. Design/Develop/Execute Usability Test
- 4. Redesign Interface
- 5. Implementation



Algorithm

Design

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

Northern Illinois Hockey League								
Home Stats Schedule								
Summary Deadlines Teams Help F.A.Q.								
NIHL Season S	Scheduling and Statis	tics						
Season Information								
 2009 Season is currently in Preparation phase. 233 teams registered. 1 game played. 								
Reminders								
You are not logged in.								
Recent Games								
Game	Date and Time	Rink	Status	Score				
Squirts Gold] Ice Dogs #1 v. [Mite Gold] Jets #1	Sep 30, 2009 09:20 PM	Glacier Ice Arena	Completed	2:1				
Quick Links								
 Enter home rink schedule View match ups and schedule games View team statistics Browse upcoming games Browse recent games Read help pages 								
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Proposed Design

Y			Sec. No.	North	nern	Illinoi	s Ho	Ckey Leagu
Home	Standings	Schedule	Seasons	Teams	Clubs	Divisions	Rinks	Accounts
			NIHL Seaso	on Schedu	ling and	Statistics		Accounts Create Account
Quick Li	inks		Season Inform	nation		F	Reminders	
 View te Browse 	atch ups and sche am statistics upcoming games recent games	dule games	 2009 Season i 233 teams reg 1 game played Your team is: [istered.	cons #1	nase.	 Enter game Enter home 	e statistics e rink schedule

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Game	Date and Time	Rink	Status	Score
[Squirts Gold] Ice Dogs #1 v. [Mite Gold] Jets #1	Sep 30, 2009 09:20 PM	Glacier Ice Arena	Completed	2:1

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PROCESS: Algorithm

- Algorithm function

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

-Time complexity

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OBSTACLES/ANTICIPATED/CHALLENGES

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PRO

-Development for backend system

-Getting volunteers for usability testing

-Obtaining pertinent information from usability testing debugging



-Usability Testing

-Copyright infringement

-Sharing any users personal information

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Questions?