Vision and Scope

Vision
The goal of iShoe is to improve the in-game experience for spectators by allowing access to features not normally accessible to fans. Users can access all features of iShoe from their mobile devices during a home football game, the statistics for the current game are updated as the game is played.

Scope
The scope for this project of the group for CSE 762 Spring quarter was to convert the eStadium system from Purdue version into a version that would be more appropriate for Ohio State and call this system iShoe. The scope also included the addition of a user friendly interface for system administration, and development of documentation for all these modifications and enhancements.

From the user's perspective, the main enhancements are related to the addition of an administrative layer, which did not previously exist in eStadium. The goal of this layer is to eliminate entirely the need for use of a command-line interface for application maintenance by iShoe administrator.

From the developer's perspective, this conversion enhanced the existing eStadium codebase making it more easily extensible through more clear and concise codebase, without sacrificing continuity essential to keeping the collaborative effort alive with Purdue and other participating universities.

Changes Made
The goal of iShoe is to improve the in-game experience for spectators by allowing access to features not normally accessible to fans. Users can access all features of iShoe from their mobile devices during a home football game, the statistics for the current game are updated as the game is played.

Architecture and Design

Architecture
The iShoe project follows a basic LAMP (Linux – Apache – MySQL - PHP) design. While this example implementation resides on a Red Hat Enterprise Linux server, any server capable of running Apache with PHP and MySQL support should be sufficient. The iShoe project makes use of NOAA (National Oceanic and Atmospheric Association) web services. These web services allow the iShoe application to display live weather information to its users. These web service requests are made possible by using SOAP (Simple Object Access Protocol) requests.

Lessons Learned
- How to work with a sponsor/client.
- How to work in a diversified group.
- Importance of communication and organization is in a team project.
- Importance of project management and time management in large projects.
- How to utilize all provided resources.

Future Work
Collaboration
The three participating universities will continue the collaboration by adding additional features and fixing any discovered bugs within the system.

Ohio State
Ohio State will continue to expand the features of iShoe. Ohio State will eventually push iShoe into production, allowing spectators to access the system from their mobile devices while they are at home football games.

Acknowledgements
A special thanks to Prof. Igor Malkiman, Dr. Rajiv Ramnath, James Walton, Bill Phillips, and Jim Null for making this project possible.