

## **CSCI 188 Final Project**

### **[Box Score Parser]**

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Adewunmi Okupe

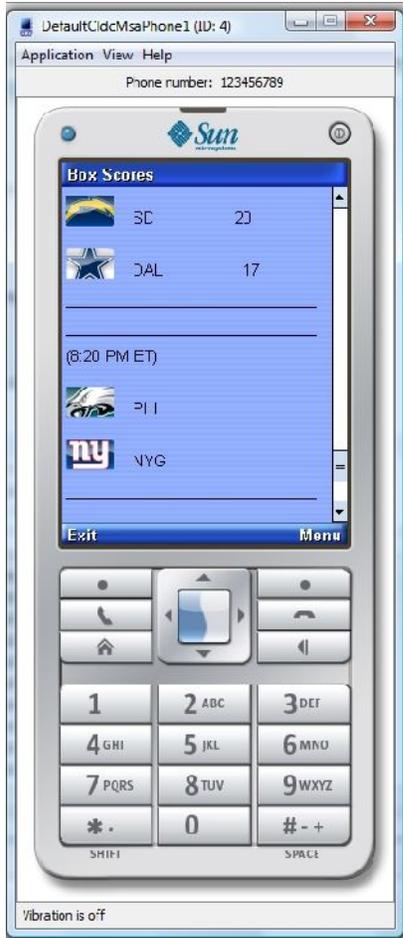
#### ***Project Abstract***

The NFL Box Score Parser is a J2ME MIDlet that pulls NFL/NBA data from an online server (in XML format) , parses the data and displays the box scores for a particular week (e.g week 4). Box scores are displayed with colorful graphics/images that mimic the look and feel of popular sports news franchises such as ESPN.

#### ***Strategy***

The first step was to create the application to run on a WTK 3.0 emulator . The application was developed using MIDP 2.0 built upon CLDC 1.1. The application downloads the scores from <http://www.mpiii.com/scores/nfl.php> and <http://sports.espn.go.com/espn/rss/nfl/news>. The scores are parsed and then mapped to images that represent that specific team and then displayed within the midlet screen. (Screenshot below).

## Box Score Parser



### ***Unknowns & Problems***

The major challenge in the development of this application was getting live/recent box scores. For testing purposes, xml files were made up and uploaded to a temporary server. As soon as live scores were available, tweaks were made to the code to adapt to new xml schema. The second major challenge, was getting the threads to work properly. Four different threads were created for each of the four xml files that needed to be parsed. This created exceptions when the program requests the xml too many times. This problem is still being fixed.

### ***Implementation Plan***

Steps for implementation were as follows:

1. Set up sever
2. Obtain and upload XML Box Scores
3. Code Sample MIDlets to test XML parsing from server
4. Develop helper classes for parsing

## Box Score Parser

5. Design user Interface
6. Create MIDlet Suite
7. Integrate MIDlet Suite with helper classes
8. Developing IO connection classes
9. Test environments
10. Deploy MIDlet

## API's

1. Wireless Messaging API
2. XML API
3. KXML API

## **Conclusion**

The application was a lot of work putting together, but all in all it came together wonderfully. It is not fully functional yet but it does its job. Features to be added in the future will be a better GUI, more personalized settings and more team functions.