

GreenBird Online Betting System

GreenBird online betting system is a betting engine which provides facilities for pitboss to create match and change odds, automatic odds calculator and player's balance update. Besides placing wager through online, the player can contact the operator to add player wager directly to the system. Generic credit soft limit and equity based calculation are developed so that both the player and the owner of the betting system can benefit. At the same time, different amounts of odds can be applied to different groups of player according to pre-defined rules. Furthermore, the system supports flexible commission agent system. Layoff account is also provided for the pitboss to identify the potential profit or loss on each line through hedging. 10 basic reports are provided.

The system supports both European and American styles of betting which are characterized by such terms as money lines, odds, point spread, juice, split line. It is not limited to standard straight line and it also supports proposition type of wager for flexibility. Apart from these two basic types, it features with parlay, teaser, if-bet, reverse-if-bet, round robin and combo processing. 5 types of sports are supported, American football, basketball, baseball, hockey and soccer.

Through GreenBird messaging system, the odds and wager of each line are updated automatically in the user terminal. In addition, the odds of each line can also be sent to subscribed player terminal.

While it is a betting engine composed of several layers, a set of Java API is given for front end developer to interface with. This can shorten the development and deployment time.

Features of betting engine

Basic features

- Match and line management
- Odds management with auto-conversion between money line and European odds
- Point spread, handicap home/away/draw
- Total goals with over and under, odd and even
- Favorite/underdog/pick'em
- HaFu
- First scorer
- Puck line and run line
- Split line
- Straight, proposition, parlay, teaser, if-bets, reverse-bets, round-robin and combo
- Circled games
- Wager and pay-off auto-calculation
- Basic risk calculator

Account management features

- User (administrator, accountant, pitboss and operator)
- Sales agent
- Player

- Layoff account (house account for the purpose of hedging)
- Credit soft limit and equity based processing

Reports

- Agent account
- Player account and player balance
- Adjustment, receipt, withdrawal and transfer
- Weekly balance and daily summary
- Wager and league statistics
- Audit report

Implementation

- A set of Java APIs is provided for front end developers to interface with the engine
- These include Web interface, user terminal interface and data feed interface

Hardware & Software requirements

Minimum hardware requirements

- Web Application Server
 - Pentium IV 1.8 GHz CPU or better
 - 512 MB RAM
 - 20 GB harddisk
- Application Server & Database Server
 - Pentium IV 2.8 GHz CPU or better
 - 1 GB RAM
 - 80 GB harddisk
- User terminal
 - Pentium IV 1.8 GHz or better
 - 256 MB RAM
 - 5 GB harddisk

Minimum software requirements

- Web Application Server
 - Linux 2.4 or later Kernel
 - Apache 2.0 or later
 - JDK 1.5 or later
 - Apache Tomcat 5 or later
- Application Server & Database Server
 - Windows 2003 Server
 - JDK 1.5 or later and JBoss 3.2 or later for Application Server
 - MSSQL 2000 for Database Server
- User terminal
 - Windows XP or Windows 2000
 - JDK 1.5 or later
- Customer workstation
 - Windows XP or Windows 2000
 - Internet browser with Java Script and SSL enabled