A Hybrid Cricket Scoring Application

PSI partners with an Australian multimedia solutions player to design & develop a hybrid cricket scoring application.

Client Profile:

The client is an acclaimed player in the Australian multimedia market, offering innovative multimedia solutions. With constant innovation and technology up-gradation, it has transformed into being a mobile led information technology company focused on developing and delivering innovative applications with engaging content.

Project Profile:

PSI team with its established capabilities on Application Development & Maintenance, was brought onboard to develop a Cricket Scoring Application. The application designed would enable the user to feed ball-by-ball information for a cricket match and later review the data to determine player's strengths and weaknesses and view batting and bowling statistics. This would provide real-time analysis on the match and automatically publish LIVE scores and full scorecards.

The Application was developed with different UI (User Interface) for Smart Phones and iPad/Tablets. Moreover, it generates dynamic and graphical charts like Manhattan, Wagon wheel, run rate worm graph etc. and supports offline/online, ball-by-ball scoring, consolidated score update.

Key Project Challenges:

- Client wanted the Application to be compatible on iPad/Tablet and smart phones, so different UIs had to be created
- The team has to adapt to changes in the business requirements and minimizing wasted effort at the same time
- While scoring data, the Application had to create dynamic graph charts like Manhattan Chart, Wagon Wheel, Run rate, Worm graph, etc. using D3 library
- It had to track the shot direction
- Ball-by-Ball editing where the scorer could edit any previously tracked action
- The reports had to be generated in Real time

Solution Approach:

Client wanted the Application to be compatible in iPad/Tablet and Smartphones. So, the team proposed a solution to develop a hybrid mobile application using Cordova as a framework with cross platform compatibility, like iPhone, iPad, Android phones and Tablets.

PSI team's proposal was cost-effective, as the same Codebase could be used for these different platforms. With this, the Application will interact with the competition management system by different APIs exposed by this system.

The Application was made operational in both offline and online mode, where the data would be sourced from the server. If game is tracked in online mode then LIVE ball-by-ball updates would be available on the server.

Project at a Glance:

Location:
Australia

Industry:
App for the Sports domain

Team size:
3

Duration:
1 year

Delivery Model:
Offshore

Engagement Model:
Turnkey

Methodology Undertaken:

- Developed hybrid application; same code base being used for all platforms
- Used D3 library for generating custom charts

Technology Deployed

Application Servers	: IIS
Database	: SQLite
Front End	: HTML5
Platforms	: Smart Phones (Android, iOS), iPad, Android Tablets
Development Platforms	: Windows
Development Tools	: Eclipse, Photoshop

Microsoft Partner
Gold Application Development
Silver Application Lifecycle Management
Silver Collaboration and Content
Silver Data Platform

About PSI:

Pratham Software Inc. (PSI) is a global IT services company (with established ISO 9001:2008 practices) providing software product development, consulting and outsourcing solutions to enterprises worldwide. While providing a wide range of solutions, we focus on Outsourced Product Development (OPD), Business Process Management (BPM), Application Development and Maintenance (AMD) and Content Engineering. Our extensive experience in OPD helps us build strong relationships with Independent Software Vendors (ISVs), as we work with them throughout the product development lifecycle. Over 12 years of experience in the BPM field with various tools such as Savvion, IBM Lombardi, SharePoint and open source tools such as Activity have helped us gain leadership position in BPM. In terms of technology and platform, we work across all major technologies such as Microsoft, Java and Open source and have capabilities and experience in developing solutions for web, mobile, Cloud and social media. For Enterprise customers, in addition to Process Automation, we also offer development and support services in BI and DWH.

PSI
Global IT Solutions