Efficient Workforce Management Application

About The Client

A renowned supplier of sophisticated and easy to use workforce management solutions. Expert in providing solutions for scheduling, rostering, timesheet & attendance to a wide range of industries and companies in Australia.

Product Offerings

The client approached PSI to build the mobile app in order to support the existing web app for online workforce management solution. The app has to be developed for both iOS and Android platforms and accommodate various existing solutions provided by the client. Moreover, the app has to configure itself depending upon configuration and resource file, when connected with specific product.

Key Challenges

- The mobile application is required to connect with some of the client products to assist in production specific branding and functionalities

- To integrate complex roster, timesheet designs for smaller screens, including daily/weekly/calendar view

- To design the application which can accommodate and handle heavy enterprise data properly and in efficient manner

- To develop a user friendly and attractive but professional design for the application

Solution Approach & Methodology

The foremost requirement is to develop iOS and Android application for workforce management system, allowing the user to view and plan the team's and personal availability based on certain roles. To ensure reusability of the interface calendar view was created. The application also allows users to swap shifts with other selected employees and view timesheets and associated status. The respective supervisor provides approval for the requests by the users. The application supports various solutions for different companies via configuration files.

Key Highlights of the Approach

- The application has configurability features to help client customize the application

- Use of resource and configuration files to bind data to user interface

- The application provides support for managing different companies via a single interface

- Created calendar view to visualize daily and weekly schedule

Achievements

1 Created dynamic application configuration and downloading resource and configuration to handle unique product based features

2 Handled API communication carrying complex and heavy data properly

3 Professional and complex UI design was created with efficient usage of gesture events

Technology Deployed

Framework	: Xamarin.iOS, Xamarin.Android
Platform	: iOS, Android
Language	: C# for mobile app, .NET for web services
Front End	: Storyboard, XML
Development Tool	: Xamarin Studio, Visual Studio
Design Tools	: Photoshop

Project Highlights

Client	Workforce management solution provider
Location	Australia
Project Duration	6 months
Team Size	3 people
Delivery Model	Offshore
Engagement Model	Turnkey

About PSI

Pratham Software (PSI) is a global IT services company (with established ISO 9001:2015 & ISO/IEC 27001:2013 practices) providing software product development, consulting and outsourcing solutions to enterprises world-wide. While providing a wide range of solutions, we focus on Outsourced Product Develoment (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. 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.