



# TEAM INTERNATIONAL

IT Solutions: On Time, On Target... Your TEAM



**Offshore Outsourcing Helps PDA Development  
Company Better Meet Its Client's Needs**



## Scope of Project

In initial discussions with TEAM, it was determined that the application for tracking POD will contain three separate parts:

- Management Interface Solution - The application needed to communicate with a back office system and dataset to correctly define the schedule for the delivery of fruit to schools. This element of the system also needed to account for missed PODs that could be collected the next time the driver returned on location. This application maintains constant communication with the PDA application for both provision of data and ensuring “completed” deliveries are processed to the secure website.
- Driver PDA Application – Driver-intuitive application for collecting PODs.
- Secure Website – the secure website whereby Clients are able to log on and check for PODs as well as able to download data for import into their own systems.

## The Engagement Model

Fixed Price (FP)

## The Approach

TEAM International chose a service-oriented architecture as the major project methodology. In addition to that, Agile methodology was utilized in regards to Project Management.

## Number of Resources

Business Analyst	1 (part-time)
Project Manager	1 (part-time)
Team Lead	1
Developer	1
Tester	1
<i>Total</i>	<i>5</i>

## Length of Project

471 man-hours / 74 days



## The Process (in chronological order)

### July 2008

TEAM International prepared and submitted the following to The Client: Requirements Analysis and Project Estimation, Rough Order of Magnitude (ROM), Project Management Plan, Scheduling, Software Requirement Specification (SRS), and Installation and User Manuals. Upon The Client's request TEAM did a Pilot Management Interface Application including Distribution System Interface, Delivery Data to PDA and Complete / Incomplete Delivery Data from PDA. Additionally, 1st and 2nd PDA application prototypes, an Installation package, a Web application core, an Implementation Solution Framework and an SRS were completed.

The Client's PM team visited TEAM's Offsite Development Center in Kharkov (Ukraine) to adjust communication with TEAM developers and monitor project execution process. .

### August 2008

TEAM International developed and delivered the Pilot Security Website, Pilot Sales Ledger, and Website and Ledger testing and rollout to 4 Depots. The Client approved 2 out of 4 Change Requests.

### September 2008

TEAM International finished development of the PDA application, tested and delivered it to The Client.

### December 2008 – January 2009

TEAM International conducted a PDA product audit

### January 2009 – present

TEAM provides ongoing application support



Welcome sa | [Logout](#)

Depot Ledger Deliveries Management Account

Information Drivers Routes Deliveries Driver notes Complaints Import Synchronization

Depot \ Delivery

Id: WRD0002630 State: Signed

Date: 10/09/2008

Name: WR194 Tan Lane Pre-School Nursery Depot: WQB

Order: 24 Route: WOR3 worcester 3

Children: 20 Driver: WRA001 Scott Hunt

(Add comment)

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Id	Time	Signed	Product Code	Product Name	Quantity	Post time	Consumption Date
WRL00006191	KS2	True	SNP	SugarSnap	2		11/09/2008
WRL00006272	KS2	True	BAN	Banana	2		12/09/2008

Arrival: 01/01/0001 00:00:00

Signed: 23/09/2008 17:08:20 by



## Platform / Technology Used

NET Framework 2.0	MS SQL 2005
NET Compact Framework 2.0	Oracle
ASP.NET 2.0	Windows Mobile
C#.Net 2.0	Internet Explorer 6.0/7.0, Firefox 3.0

## Dilemma and Creative Solution

TEAM's project team had to work under significant time constraints and with minimum initial requirements from the Client. To meet tight project deadlines, TEAM's developers had to create and submit PDA application prototypes in a very quick manner, all the while ensuring a high level of quality and commitment. As a result, nearly 80% of functionality shown in prototypes remained unchanged in the actual application development. Due to limited requirements specification from the customer, TEAM's project team had to be insightful and inventive to deliver a high-quality end product.

## The Results

- TEAM International delivered to The Client ready-to-use:
- WEB based management interface and data exchange web services:
- ASP.NET MVC
- Multi database engine
- SOAP based data exchange between WEB applications and PDA client
- Client PDA application:
- Compact Framework Windows Forms Application
- SOAP based data exchange with WEB server application
- 

All of the project deadlines and requirements were successfully met. Application has come through the full development cycle and is now in a production support phase.