Build E-commerce Web Application with Credit Card Processing Capability

Ravi Ganta, Ansh Labs LLC

rganta@anshlabs.com

## Aim

To design and develop:

1. A secure **e-commerce web application** with credit-card processing capability using ASP.NET to enable selling of our company’s products online in a simple and safe manner.
2. Utilizing **agile development** practices.

## Use Cases

* View Products
	+ By Type
	+ By Technology
	+ By Alphabetical Listing
* Add Product(s) to Shopping Cart
* View Shopping Cart
* Process Check Out
	+ Acquire Shipping Information
	+ Acquire Payment Information
	+ Process Payment
		- Credit Card Payment
		- PayPal Payment
	+ Create Order

## Tools and Technology

* Microsoft Visual Studio 2010
* Microsoft ASP.NET MVC 2.0
* Microsoft C#
* Microsoft SQL Server 2008 R2
* CSS, Java Script, AJAX, etc.

## Benefits to participants

* Gain insights in building production quality web application development using modern methodologies
* Benefit from learning Industry’s leading technology platform – ASP.NET
* Benefit from domain knowledge gained through interactions with our company
* Being part of an aggressive start-up culture

## Approach

* Use cases will be provided with detailed requirements by Ansh Labs
* Students will analyze requirements and create a high-level architecture (Architecture Diagram)
* Students will design components based on the architecture above such as Payment Module, Shopping Cart Module, etc. (Design Diagram)
* Students will then start development along with test cases based on the design created above. (Code)
* Using CruiseControl.Net, each build will be tested and report will be generated.

## Meetings

* Students can meet their mentor once a week to discuss progress and any questions pertaining to the project or domain knowledge.
* Student’s active participation in providing ideas and resolutions will see benefit in final grading.