

e-Commerce 101



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Introduction

- General Concepts
- Not too technical
- More than an “Install zenCart” talk
- Less than “Here's How to Be(at) Amazon”
- Wild Frontier Remains
- Ask Questions

Prerequisites

- **Understanding the Credit Card System**
- **Business Plan**
- Two Servers
 - Co-located Production Server
 - Internal Development Server
- Merchant Account
- Credit Card Gateway/Processor Account

Prerequisites (Continued)

- Server Setup (Security, Software)
- Designer
- Developer

The Credit Card System



www.americanexpress.com



www.dinersclubus.com



www.discoverbiz.com



www.jcbusa.com



www.mastercardmerchant.com



www.visa.com

- Deep impact upon your success
- Depends on Merchant Account
- Security Compliances for **ALL** merchants

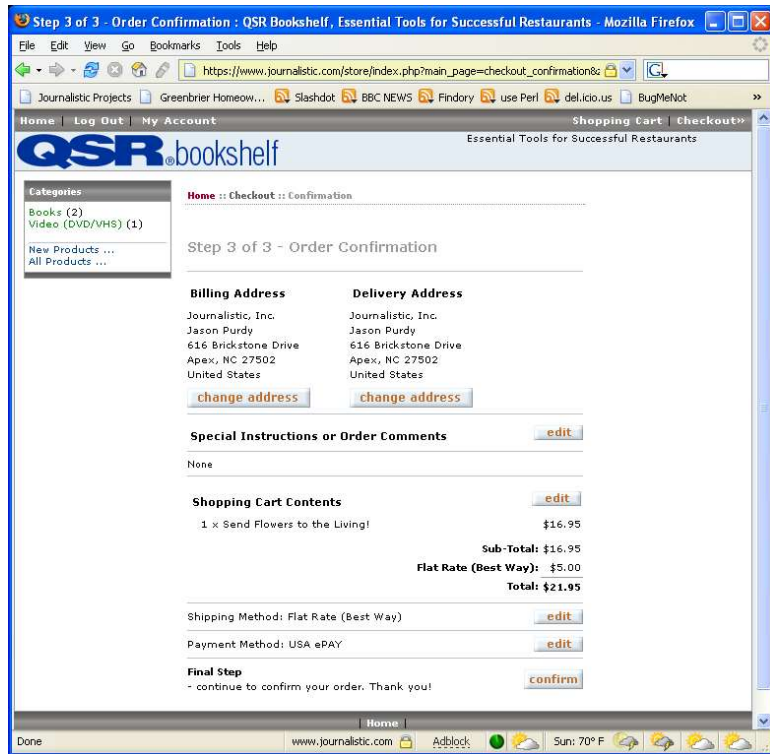
Credit Card Security Compliances

- Broken up into the “Dirty Dozen”
- **VERY** costly to comply (est. \$200k+)
- Incidents are liable to fines of \$500k each
- **Highly** recommend that you **NOT** receive, retrieve, store and/or transmit cardholder data

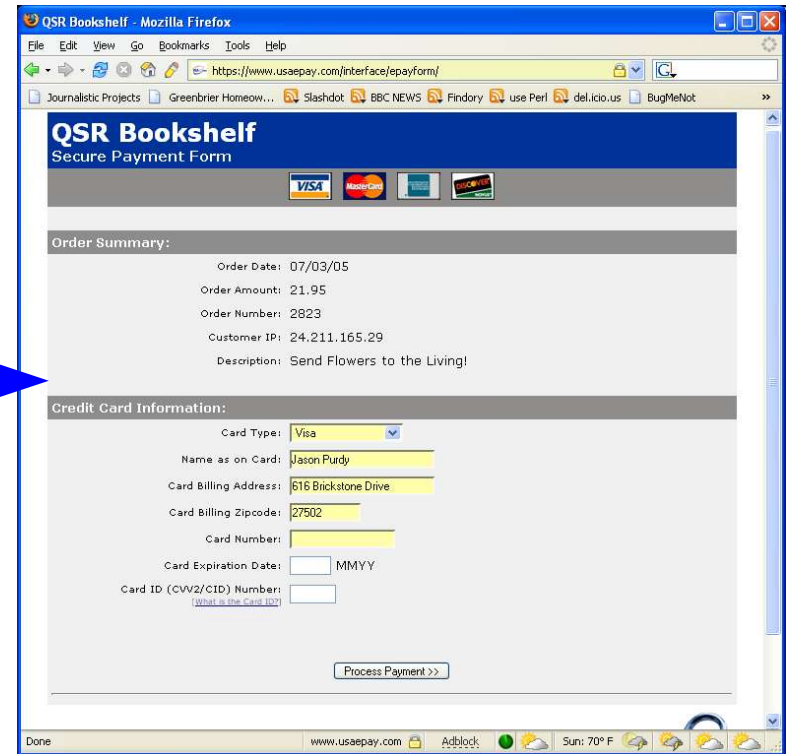
So What Else Should I Do?

- Redirect user to third party (credit card gateway/processor) for credit card processing

Compliance-Free User Flow



QSR Site



USA ePay Site

MasterCard's Latest Commercial

New Computer	\$1,100.00
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An Internet guidebook to writing computer viruses	Free
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Easily stealing 40 million credit card accounts	Priceless
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There are some things money can't buy.
For everything else there's MasterCard.

Last Little Credit Card Bits

- Different Card Transaction Types
 - Auth and PostAuth
 - Sale
 - Credit
 - Void
- Card Numbers are Checksums

Last Little Credit Card Bits (Con't.)

- This should help formulate your revenue model
- Also – Identify solution to Identify Merchant Bank

The Business Plan

- **HIGHLY** important
- Continually refined

Before Writing The Plan

- Consider Four Core Questions:
 - What service or product does your business provide and what needs does it fill?
 - Who are the potential customers for your product or service and why will they purchase it from you?
 - How will you reach your potential customers?
 - Where will you get the financial resources to start your business?

Business Plan Outline

- Cover Sheet, Statement of Purpose, TOC
- The Business
- Financial Data
- Supporting Documents

Passing around example

- My example is a good point that feedback is important
- Survey potential users
- Plenty of other examples out there

Last Bit on Plan

- Expect to revise plan over time, even after you're in business
- Think about/plan for incubator space if you're independent

Servers

- Ideally, two:
 - Production: Something stable (FreeBSD or Debian)
 - Development: Exact clone of Production

Co-Location Provider

- Provides Peace of Mind
 - Fast Internet
 - Guaranteed Uptime
 - Business IP Separation
- Read SLA
- Know what you need

Ready to Build?

- Design First: write out Functional and Technical Specifications
- Will save you a lot of time in the long run

Functional Specification

- High-level overview of application
- Spec Outline:
 - Overview
 - Usage Scenarios
 - Flowchart
 - Screen-by-Screen Specifications

Technical Specification

- Translating the functional specification into the technical tasks.

Now It's Time To Work!

- Everyone should have a copy of the specifications
- MVC Model / Work Split
 - Model: Database
 - View: Design
 - Controller: Core code

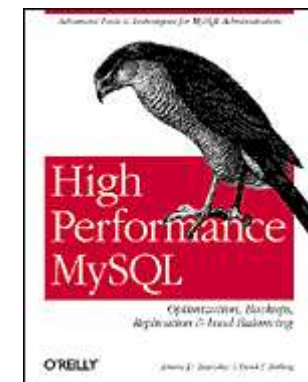
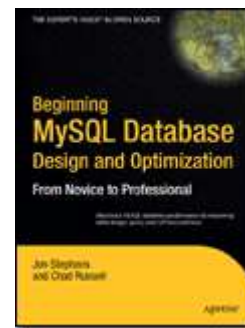
Designer Notes

- Caveat: I'm not a designer
- Peruse the web
- Two books come to mind:



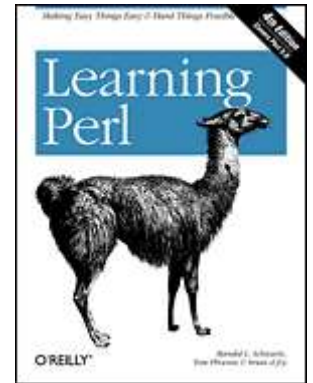
Development: Database

- I recommend MySQL
- Things to Keep in Mind:
 - Normalization / Optimization
 - Data Liability
 - Flexibility



Development: Code

- Recommend Perl
 - Fun language
 - Large/Friendly Community
 - Built-in Security / Tons of Features
 - CPAN: >8,000 modules



+ CPAN =

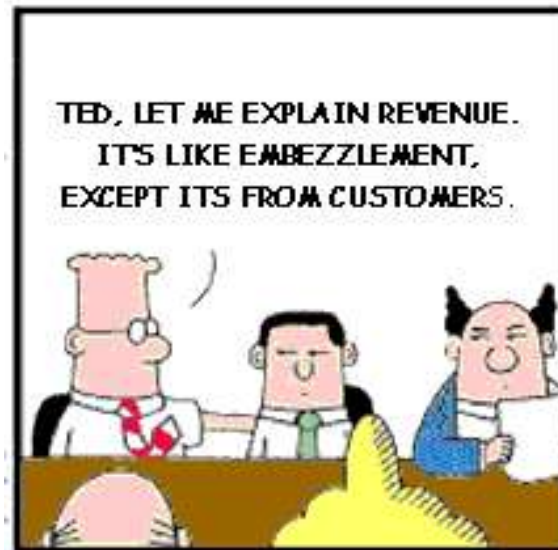
Most of
your
code/work!

Thursdays Talks

- Check out my talks on Thursday for more technical frameworks:
 - CGI::Application
 - Data::FormValidator
- Links in Handout Appendix

Five Possible Revenue Models

- Sales
- Commissions
- Advertising
- Subscriptions
- Transaction Fees



Sales Model

- Pretty Easy to Grasp: Selling products or services in a one-off manor
- Don't miss out on this as an additional revenue source

Commission Model

- Partnering with other e-Commerce sites in affiliate relationships
- Under-utilized – find appropriate partners!
- Consider offering affiliate relations for your company
- Monitor closely!



Advertising Model

- Supply > Demand
- Online advertising offers impressive value
- Behavior-Driven Advertising is latest buzzword
- Think Outside the Box!



Subscription Model

- Lucrative, but overused
- Watch success factors:
 - Competitive Offerings
 - Customer Mindsets
 - Your perceived value
 - Ownership Worth
- Harder Technical Hurdle

Example: WritingForMoney.com

- Sell monthly access for \$7.95/month
- Close to 200 subscribers
- ~ \$1600/month
- Minimal Expenses
- Lots of potential

The logo for WritingForMoney.com features the words "WRITING" and "FOR MONEY" stacked vertically. The text is rendered in a bold, green, sans-serif font. The letters are filled with a pattern of US dollar bills, giving the logo a financial and writing-related aesthetic.

WSJ.com

- A slightly bigger example
- >700,000 subscribers
- \$49 or \$99 annual fee
- Revenue between \$34.3 and \$69.3 MM (and that's just subscription revenue!)
- Built on Value



Transaction Fee Model

- Providing an underlying service
- Also can be quite lucrative

Mix & Match

- Experiment with additional revenue models
- Setting Price Points
 - Thoughtfully
 - With lots of (potential) customer feedback

Lessons from The Apprentice

- Talk to your customers
 - What do they need?
 - What's it worth?
 - What are they currently using?
 - What do they like/dislike about that?



Fulfillment & The Golden Rule

- Ensure payment before fulfilling product
- Pay close attention to orders where shipping & billing information differ



Customer Service

- Develop Good Policies
 - Terms & Conditions
 - Privacy Policy
 - Returns Policy

As Bill Cosby said:

“I don’t know the key to success, but the key to failure is trying to please everybody.”



More on Customer Service

- Get to know your Gateway's capabilities
- Automate as much as possible
- Use **ONE** userid for everything

Marketing

- Ignoring all typical marketing stuff...
- Optimize Your Site
- Learn/Understand Search Engine Optimization
 - But don't go to extremes (spamming)

Legalese

- Those policies should cover you, but...
- Look into incorporating (personal asset protection)

So that's it...

- Your Business in a Box...





Questions