

Project Plan Enterprise Features for eCommerce

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CSE 498, Collaborative Design

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Project Overview

- Offline version of online eCommerce store
- Enhance Search
- Replace 3rd party image viewing software
- PDF generation
- Synchronization



Functional Specifications



- Viewing Pane
 - Display Images, PDF files, XML files
- Navigation Pane
 - Traverse through the parts hierarchy
- PDF Manual Creation
 - Create PDF Manuals in real-time
- Advanced Search
 - Search through part IDs, legacy PDF documents, and XML documents
- Synchronization
 - Submit cart and update DB



Design Specifications



- Launching Application
- 3 Pane UI architecture
- Advance Search
- Synchronization
- Manual Generation

Screen Mockups

TA9 & TA10 4.W.D Dumper

- [Centre Pivot](#)
- [Rear Frame](#)
- [Front Frame](#)
- [Rear Panels](#)
- [Acoustic Panels](#)
- [Floorplate and Steering Cokane](#)
- [Transmission](#)
- [Axle - Maincase Assembly](#)
 - [Screw](#)
 - [Lock Washer](#)
 - [Bearing Adjuster Nut](#)
 - [Bearing Carrier](#)
- [Transfer Box](#)
- [Gear Box](#)
- [Wheels](#)
- [Transfer Box](#)
- [Gear Box](#)
- [Wheels](#)

Qty	Item	Cost	
3	Screw	\$2.00	Add to Cart
1	Lock Washer	\$56.00	Add to Cart
4	Bearing Adjuster Nut	\$12.00	Add to Cart
4	Bearing Carrier	\$3.60	Add to Cart

Manual Operate v12_front.wmv

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Advanced Search

Search Terms:

Include: Parts Manuals Other Documents

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Advanced Search for query "axle screw", 21 results shown or [Refine Search](#)

[Axle - Maincase Assembly > Screw](#)
Part No. 0040604P Qty In Axle - Maincase Assembly: 2

[Axle-Ropin-Reference.pdf](#)
"1 0040604P 2 Screw Vis Sechskantschraube Tornillo..." on page 21. Also matched on pages 24, 35, 71.

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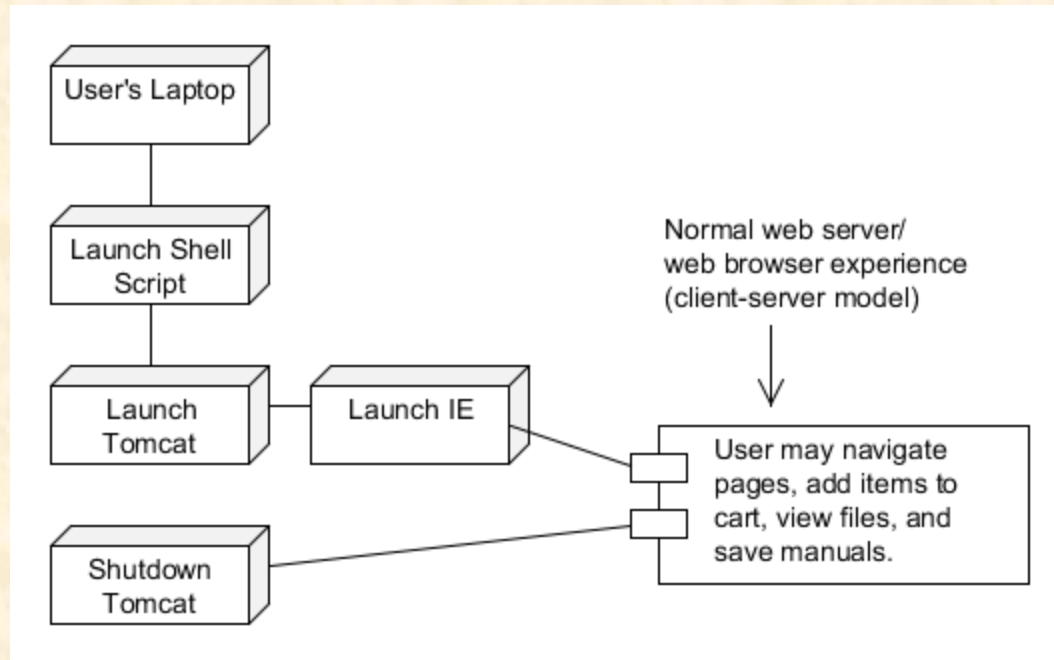
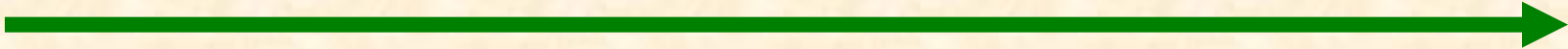


Technical Specifications

- Apache Tomcat
- Lucene
- PDFBox
- Derby
- JSP/Java Servlet



Architecture Illustrated





System Components

- Hardware Platforms
 - Any User's Laptop/Computer
- Software Platforms / Technologies
 - Windows XP or above
 - IE or Firefox (JavaScript for viewpane)
 - Adobe Reader
 - Adobe Flash Player

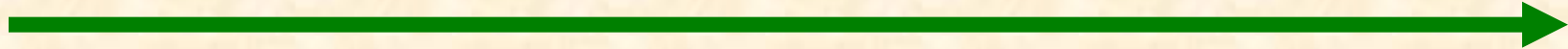


Testing

- Unit testing at the features level (PDF Generation)
- UI testing
 - Devoted last few weeks
 - Rely heavily on feedback from Terex



Risks



- Lucene
- PDFBox
- AJAX viewpane
- Synchronization
- Generating PDFs
 - Serve from memory or disk?
- Client Contact
 - Moving target