User Stories
Sprint 3

<table>
<thead>
<tr>
<th>#</th>
<th>User Story</th>
<th>Velocity</th>
</tr>
</thead>
<tbody>
<tr>
<td>USFE10</td>
<td>Create search engine allowing user to search for tools</td>
<td>5</td>
</tr>
<tr>
<td>USFE16</td>
<td>Allow users to approve/deny a rentee’s request</td>
<td>2</td>
</tr>
<tr>
<td>USFE18</td>
<td>Allows users to sell their tools</td>
<td>2</td>
</tr>
<tr>
<td>USFE17</td>
<td>Create functionality for users to update their own inventory (CRUD)</td>
<td>2</td>
</tr>
<tr>
<td>USFE08</td>
<td>Implement map applet for “rentee finder”</td>
<td>3</td>
</tr>
<tr>
<td>USFE04</td>
<td>Validate fields for all forms using ASP.NET</td>
<td>1</td>
</tr>
<tr>
<td>USBE16</td>
<td>Customer Management</td>
<td>3</td>
</tr>
<tr>
<td>USBE14</td>
<td>Payment processing</td>
<td>3</td>
</tr>
<tr>
<td>USBE15</td>
<td>Booking and renting calculations</td>
<td>2</td>
</tr>
<tr>
<td>USBE07</td>
<td>Create database triggers</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Velocity for Sprint 3  25
USFE 17 Create functionality for users to change their own inventory

Adding to your personal inventory

Select from the list of tools and add them to your personal inventory. Once in your inventory, they can be rented.

Select from the following tools:

- [ ] Air Cooling Equipment

You have to login to add a tool in your inventory.

- [ ] 42" Belt Drive Portable Mancooler

- [ ] 48" Belt Drive Portable Mancooler

You have to login to add a tool in your inventory.
## Sprint 4

<table>
<thead>
<tr>
<th>#</th>
<th>User Story</th>
<th>Velocity</th>
</tr>
</thead>
<tbody>
<tr>
<td>USFE14</td>
<td>Error handling</td>
<td>4</td>
</tr>
<tr>
<td>USFE12</td>
<td>Create user forum</td>
<td>3</td>
</tr>
<tr>
<td>USFE13</td>
<td>Create user feedback rating system</td>
<td>4</td>
</tr>
<tr>
<td>USFE21</td>
<td>Facebook plug-in</td>
<td>2</td>
</tr>
<tr>
<td>USFE19</td>
<td>Retrieve user name/passwords when users forget</td>
<td>5</td>
</tr>
<tr>
<td>USBE10</td>
<td>Create test case scenarios</td>
<td>2</td>
</tr>
<tr>
<td>USBE11</td>
<td>Create work specs documents</td>
<td>2</td>
</tr>
<tr>
<td>USBE17</td>
<td>Rentee Management</td>
<td>3</td>
</tr>
<tr>
<td>USBE20</td>
<td>Create Database indexes</td>
<td>2</td>
</tr>
<tr>
<td>USBE19</td>
<td>Rating Management</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Velocity for Sprint 4</strong></td>
<td></td>
<td><strong>29</strong></td>
</tr>
</tbody>
</table>
USFE 14 Retrieve user name/password

Log in to your Account

E-Mail:  
Password:  

Log in  Reset  
Forgot your password?  New Customer? Start Here
E-Commerce Value Chain
Value Proposition

• **Lenders** - Provide a secure online exchange for power tools and construction equipment, where users can easily find individuals who are interested in renting tools that they own.

• **Renters** - provide a secure online exchange for users identify tools needed for a project and help them connect to individuals in their area who already are willing to lend these tools.
Attract

• Online
  – Digital marketing campaigns
    • SEM
    • Email Blasts (newsletter)
    • Banner Ads
  – Organic Search

• Offline
  – Trade publication ads
  – Trade shows
  – Word of mouth
Attract

• **Impulsive Buyers**
  – Promote different tools through on/offsite ads
    • Home page “slider”

• **Patient & Analytical Buyers**
  – Browse or search for tools
  – Compare tools prices, location, etc.
  – View lender/renter profiles and review
Interact

- **Product Search**
  - UPC numbers
  - product descriptions in order to easily find the items they are looking to rent.

- **Location Search (Map)**
  - browse by location.

- **Browse by Job Type**
  - bathroom remodel
  - kitchen remodel
  - automotive job

- **Reviews/Ratings**
Act

**Order Placement**
- Lenders and Renters create profiles
- Renters can place an order on available tool
  - Lenders notified via email and their admin page

**Payment**
- Transactions managed through Paypal
  - Lenders must have an account
  - Transaction not finalized till payment by renter
Act

• Delivery and Shipping
  – Renter responsible for pickup and return
    • “U-haul model”
    • Only after order has processed

• Returns
  – Paperwork must be completed protecting lender and renter
    • Late fees
    • Damaged goods
    • Tool Issues
  – Tool Exchange will facilitate and issues
React

- Renters/Lenders Review Process
  - Operates like eBay
  - Builds trust between parties
  - Drives repeat business
Design
Design

The navigation and page layout
Design

The languages we used to build our site:

- HTML/PHP
- JQUERY
- AJAX
- DOM/JS
- CSS
Design

Our ERD diagram:
Design

The validation process of our forms:
We used the DOM method to validate our forms and displaying dynamically error messages, instead of showing old-fashioned alerts.

http://ectweb.cs.depaul.edu/yellow48/qa/Register.html

```javascript
var stateList; var questionList; var sexList;

var matchValues = function ( value, constraints ) {
    var matchField = dijit.byId(constraints.matchId);
    if (matchField) {
        return this.attr("value") === matchField.attr("value");
    }
    return false;
}

var stateReset = function () {
    dijit.byId("state").attr("displayedValue", "");
}

var security_qReset = function () {
    dijit.byId("security_q").attr("displayedValue", "");
}

var sexReset = function () {
    dijit.byId("sex").attr("displayedValue", "");
}

dojo.addOnLoad( function () {
    var state = { identifier: 'state', items:
        [name:"Alabama", state:"AL"],
        [name:"Alaska", state:"AK"],
        [name:"American Samoa", state:"AS"],
        [name:"Arizona", state:"AZ"],
        [name:"Arkansas", state:"AR"],
        [name:"Armed Forces Europe", state:"AE"],
        [name:"Armed Forces Pacific", state:"AP"],
        [name:"Armed Forces the Americas", state:"AA"],
        [name:"California", state:"CA"],
        [name:"Colorado", state:"CO"],
        [name:"Connecticut", state:"CT"],
        [name:"Delaware", state:"DE"],
        [name:"District of Columbia", state:"DC"],
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        [name:"Virginia", state:"VA"],
        [name:"Washington", state:"WA"],
        [name:"Wayne", state:"WY"],
    ];
```
Usability
Personae

• **Primary (Renter)**
  - Young (21-45 year)
  - Low-Medium Income ($35K-$75 HHI)
  - Some College/2 year-college education
  - DIY (interesting in doing projects themselves)
  - Average computer skills
  - Blue-collar, trade, construction jobs
  - Own multiple tools

• **Primary (Rentee)**
  - Handee with powertools
  - Low-Medium Income, some college education
  - Looking for a specific tool for a specific project
  - Task oriented (not impulsive)
Personae

• **Secondary**
  - Looking for a cheaper way to rent a tool for a project
  - Not sure about what tool is needed, or how to use them
  - DIY is a hobby, not primary occupation
  - Moderate/Below average familiarity with tools
  - Above average computer/internet skills
  - Researching tools
Test Scenarios

- **Register as a Seller/Lender (Rentee) of Tools**
  - Click REGISTER -or- LOGIN > RENT MY TOOL
  - Fill out Web Form
  - Submit the Form
  - Login

![Register for an Account](image-url)
Test Scenarios

*Rent a tool as a registered user*

- LOGIN
- Click RENT A TOOL
- Select POWER TOOLS > Make a tool selection
- Fill out required information
- Submit rental request
Test Scenarios

- Load a new product to the Rentee Inventory
  - LOGIN
  - Click ADD TO MY PERSONAL INVENTORY
  - Fill out information
  - SUBMIT
User Test Results

• **User Feedback**

- Positive!
- Navigation Not consistent throughout the site
- Layout is lacking
- Slider not working correctly
- Hard to see the product - images are too small
- Issues logging in - getting error messages when filling out the form
- Price is not clearly showing when renting a tool
Implemented Changes

• Pages layout, CSS changes, button change
Implemented Changes

- Front Page slider layout, CSS changes, button change

Before

After
Implemented Changes

- The size of the picture of each product
Implemented Changes

- **Show the price of each available tool.**
Implemented Changes

• Show the price of specific tool.
Implemented Changes

• Navigation improvement, carrying header consistently throughout the site

** More Changes **
Demo Website
Demo

http://ectweb.cs.depaul.edu/yellow48/qa/home.html

UserName: rania@hotmail.com
Password: Ar1234
Contributions of members

Name: Hermain Rios
Contribution: --

Name: Pavel Solyak
Contribution: Usability testing portion, personas, test scenarios, before/after section.

Name: Chris Reed
Contribution: Built out the ecommerce value chain slides

Name: Alex DelaRosa
Contribution: Added screenshots for user stories section of the presentation.

Name: Rania Almajalid
Contribution: Design section and built the scenarios for the site demo.