
Machete User Manual

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INTRODUCTION

Machete is a web application customized to manage a day labor referral service. Machete tracks work order requests made by employers looking for short term, casual labor. It also provides a means for matching laborers with specific skillsets to requests made by employers for skilled casual labor.

Machete performs the following tasks:

1. Stores basic contact information for all persons associated with the Machete system
2. Stores biographical and membership information on for all members associated with the organization
3. Records daily member attendance using an identification number through either a bar code scanner or the keyboard
4. Captures employer, work order, and work assignment details into a relational database
5. Provides a fast, flexible method of dispatching workers to work orders based on English level, skill level, and employer requests
6. Captures class, assembly, and special activity attendance

1.1 How does Machete work?

Machete is a client/server web application that supports most major web browsers (Firefox, Chrome, Safari, and Internet Explorer). Machete is installed on an IIS web server and connected to a MS-SQL database. Many clients can simultaneously use Machete as long as they have reliable network connectivity between the web client and the server. The web client/server framework provides a great deal of flexibility, but also comes with it's own quirks and restraints.

1.2 How do I login to Machete?

To access Machete, use a compliant web browser and go to the Machete web server URL. Your site administrator will be able to tell you the URL to access your instance of Machete.

You will need a login and password to sign in to Machete. You can register for an account by clicking in the Logon link in the upper right hand corner of the Machete page. A manager or dispatcher will need to give your account permission to use Machete.

1.3 User Accounts

To access Machete, a user must create a user account AND an administrator must grant privileges to access certain facets of the system.

There are two methods of creating a Machete account:

1. The user may click on the Register link. This link will prompt the user to give their email and create a password, as well as give their first and last name. Using a real first and last name is important because the name of the user will be logged whenever he or she makes a change to a record.
2. A user may also click on the Google or Microsoft buttons at the bottom of the Register page. This will allow the user to automatically sign in with the contact information and details of their Google or Microsoft accounts.

Machete User Log-On Page

More detailed user account management information is available in the Configurations Page section.

1.4 Bilingual Support

Machete has the capability to support multiple display languages. As of 2013, it supports English and Spanish. More languages can be added in future updates.

The links to switch between English and Spanish are in the upper right hand corner of every page. A user can switch between English and Spanish anywhere in the application.

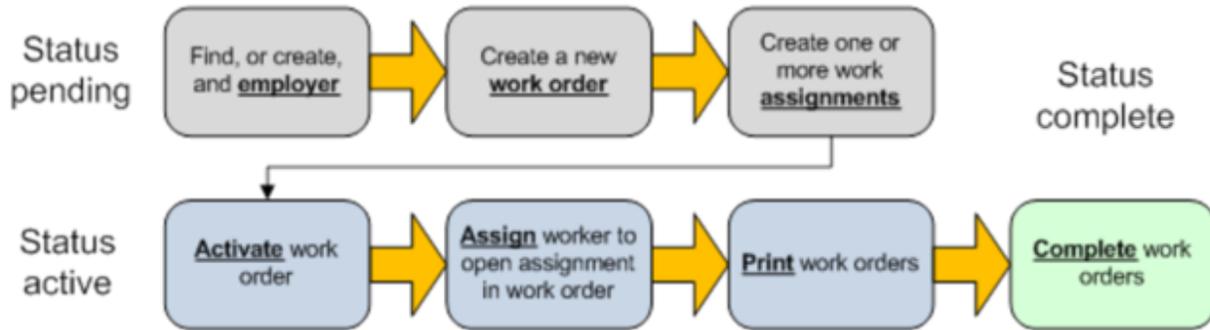
1.5 Work flow

Machete manages work orders through a simple work flow process. Work orders start the process marked as Pending until they have sufficient information to proceed. Once orders are ready, they are marked Active, making their assignments visible on the Dispatch Page. From the Dispatch Page, workers are assigned to assignments for a given day. Print-outs of the orders are given to the workers, who travel to the work site and perform work for the employer.

Managers and Dispatchers review the orders and mark them Complete or Cancelled. The information is captured in Machete's database and used for reporting.

The diagram below illustrates the basic work flow of creating orders in Machete. At the end of the process, the Manager marks that the order is complete by activating the order.

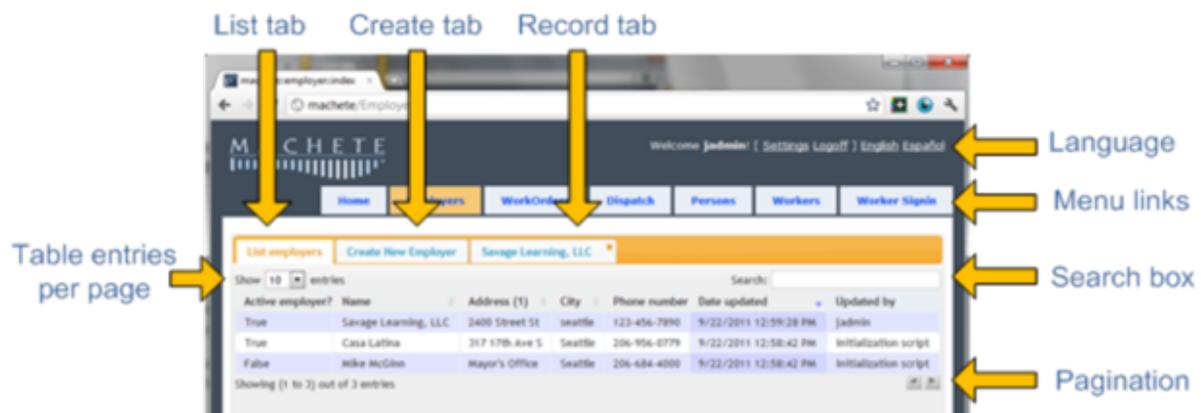
Active orders are visible in the Dispatch page and are able to be assigned workers.



Machete workflow

INTERFACE OVERVIEW

The Machete interface is a combination of multiple technologies: HTML, jQuery, and DataTables. A lot of functionality is packed into the page, so to describe it properly, the following diagram identifies and labels the various functional points. The subsequent paragraphs describe the functions in more detail.



2.1 Navigation Menu

Every Machete page has a row of gray boxes which is known as the Navigation Menu. Each box contains an HTML link to a different Machete page, providing access to various areas of the application.

The links cause the browser to load a new HTML page. This refreshes all the information on the page from the server. Clicking on the link for the page you are already viewing will cause the page to be re-loaded and refreshed.

2.1.1 Reports Page

The Reports Page includes a variety of internal reports on amount of jobs dispatched, average wages, total earnings, activity attendance, and others. Reports are categorized by time period: Daily, Weekly, Monthly, and Yearly.

Reports on the data that Machete collects are also available through any SQL-compliant tool. Administrators and Managers may use SQL Server Reporting Services (SSRS), but this is a separate component, not available with the free version of SQL Server.

2.1.2 Employers Page

The Employers Page provides access for searching, creating, editing, and deleting employer records. The Employers Page is also the primary location for users to create work orders and work assignments. The work order and work assignment creation is embedded in the employer page because work orders and assignments are always associated with a particular employer.

2.1.3 Work Orders Page

The Work Order Page provides summary and management functionality for work orders. It does not provide creation functionality - see the [Employers Page](#) for more information.

2.1.4 Dispatch Page

The Dispatch Page show side-by-side the list of workers signed in to Machete for the day and the list of work assignments that need to be filled. The page provides several methods of filtering the lists to find workers with skills necessary for an assignment. It also provides an interface for recording lottery selections using a bar code scanner.

2.1.5 Persons Page

The Persons Page provides access for searching, creating, editing, and deleting person records. It also provides access for creating worker records, events, and managing a person's activity attendance. This functionality is located in the Persons Page (and not the Workers Page) because a person record must be created first. A worker record is created afterward.

2.1.6 Workers Page

The Workers Page provides access for searching, editing, and deleting worker records. The Worker Page allows users to search by worker name and membership number, and the list can be sorted in various ways.

2.1.7 Activities Page

The Activities Page manages activities within Machete. Users can create, edit, and delete Activity records. The Activities Page also registers members' attendance for a given activity. Activity registration works in the same manner as the daily attendance registration on the Worker Sign-in Page.

2.1.8 Worker Sign-In Page

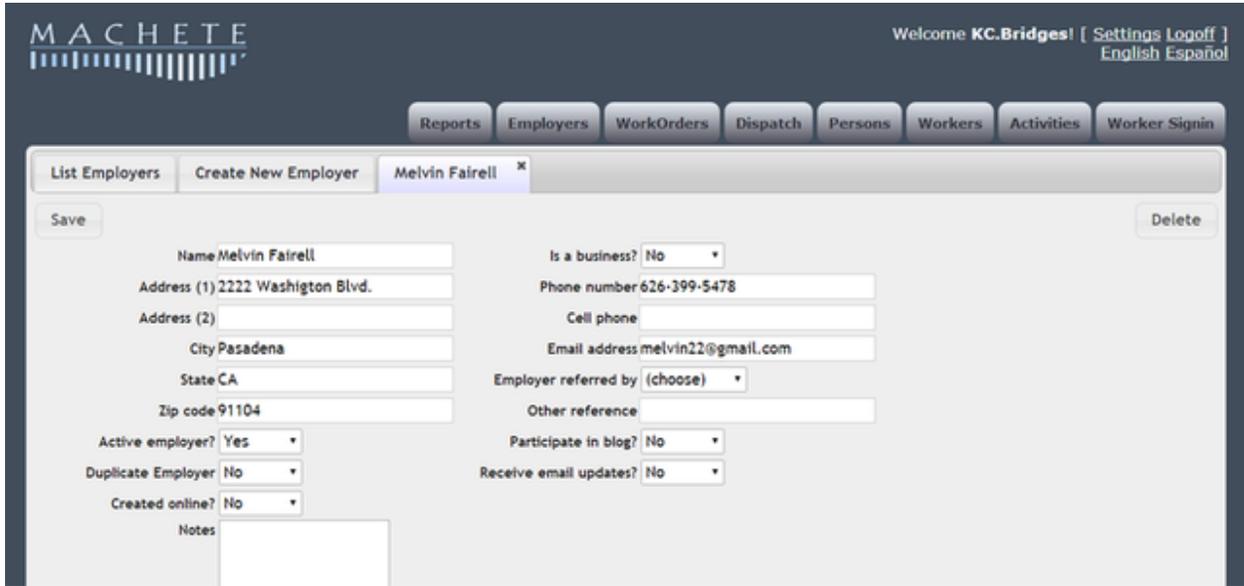
The Worker Sign-In Page records daily registration of workers into Machete using either a bar-code scanner or the membership number of the worker, entered manually by keyboard. Each worker must sign-in to Machete to be eligible to participate in activities and receive work assignments.

2.2 Page Tabs

Within each page, Machete uses tabs to divide different areas of functionality. Each page in Machete has its own tabs with functions specific to the page. Subsequent sections of the User's Manual will define and discuss page-specific tabs.

Tabs are intentionally designed to reload automatically so that information is current. Employer and work order lists will refresh automatically to include newly created records as soon as the user has saved the record. When the user returns to a previous tab, that tab will also be re-loaded.

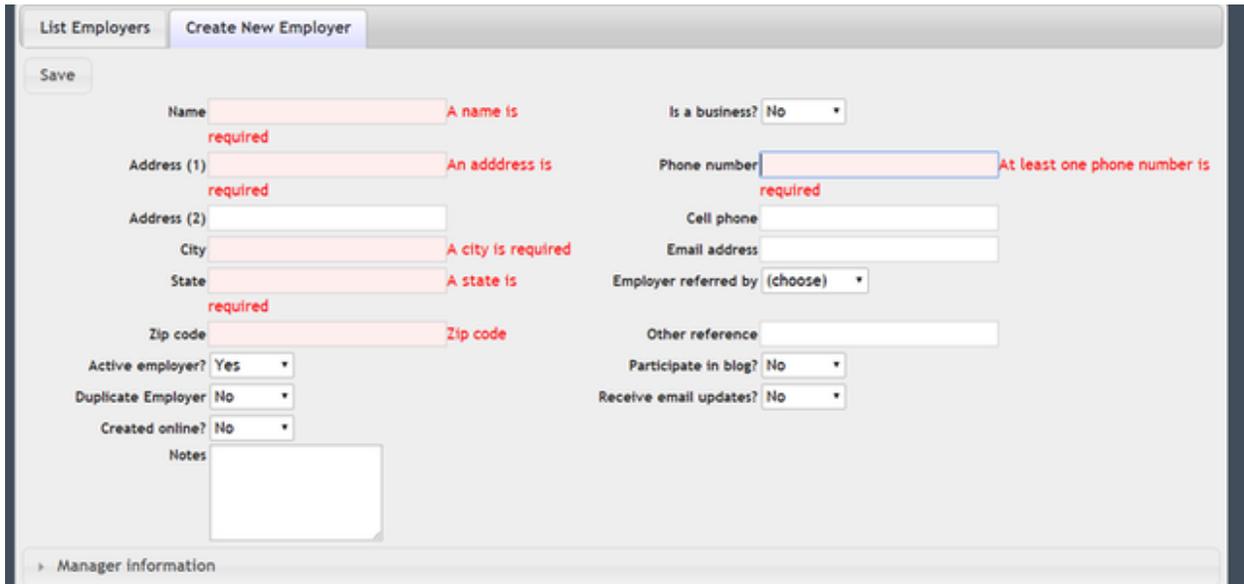
Each page has a set of default tabs that cannot be closed, as well as contingent tabs that temporarily display records for particular work orders, employers, people, and activities.



Machete page tabs on the Employers Page. Note that the List Employers and Create New Employers tabs are active.

2.3 Required Fields

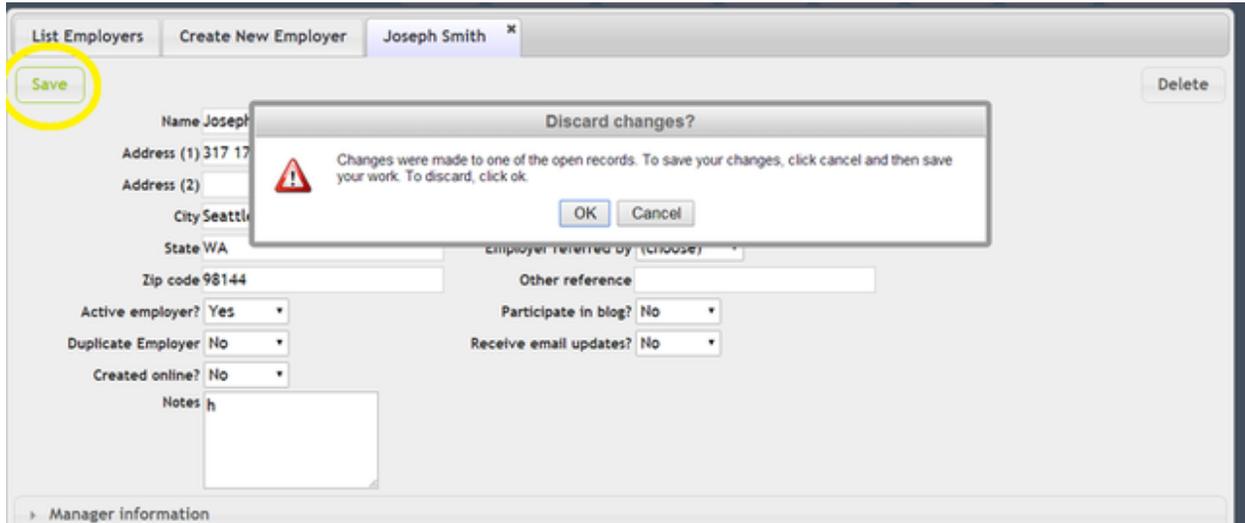
Some fields are required in order to save a record. If a user attempts to save the record without filling out a required field, the field is highlighted in red and an error message is displayed.



Required fields exist to ensure that all necessary information for processing an order or managing a worker is collected.

2.4 Discard Changes Warning

All pages in Machete detect when changes are made to a record and warn you if you attempt to leave a page without saving the record.



When a change is detected, the Save button changes color from blue to green, indicating a Save is necessary. If the user attempts to leave the page, a dialog box asks the user to verify if they really intended to leave without saving the changes.

Note: This dialogue box does NOT allow users to save their changes. The user must click “Cancel” and then click the save button, located on the top-left part of the tab.

2.5 Data Tables

Machete includes specialized functions that were created using the DataTables technology.

2.5.1 Search Box

Each page in Machete includes a search box, which automatically searches the page’s list of records for text as it is being entered. There is a 400 ms second delay on searching, to reduce the load on the Machete database. Most fields displayed in the list will be searched, with the exception of ‘Updated by’ fields. These fields are seldom searched and increase search load for all searches, so they are excluded.

2.5.2 Table Entries Per Page

This option controls how many rows are displayed in a table at a given time. The default number is set relatively low because it reduces processing load and time on the server.

The screenshot shows the 'List Employers' interface. At the top, there are navigation tabs: Reports, Employers, WorkOrders, Dispatch, Persons, Workers, Activities, and Worker Signin. Below these, there are two buttons: 'List Employers' and 'Create New Employer'. A search bar is located on the right side of the interface. The main content is a table of employers. The 'Show 10 entries' dropdown menu is highlighted with a yellow circle. The table has the following columns: Active employment?, Name, Address (1), City, Phone number, Date updated, Updated by, and Created online?. The table contains 10 rows of data.

Active employment?	Name	Address (1)	City	Phone number	Date updated	Updated by	Created online?
True	Gonzo Marco	1546 Castleton Ave.	Staten Island	718-420-6466	7/31/2013 1:36:08 AM	jadmin	False
True	Hilda Strom	317 17th Ave. S	Seattle	206-956-0779	7/31/2013 1:39:00 AM	jadmin	False
True	Chris Lubbs	2981 Bowen St	Graton	707-829-1864	7/31/2013 1:40:18 AM	jadmin	False
True	Blue Red	11888 Bel Red Rd	Bellevue	206-555-1212	8/17/2013 5:54:45 PM	chaim.eliyah	False
True	Jose Girardo	123 Any Street	Graton	702-123-4567	9/4/2013 11:48:01 AM	chaim.eliyah	False
True	Heather Spin	44 Sunny St	Seattle	555-555-5555	9/10/2013 2:59:41 PM	chaim.eliyah	False
True	Julie Villaire	138 Toy boat Ave	Santa Cruz	831-566-0411	9/11/2013 5:32:03 PM	jadmin	False
True	Oscar Meyer	10 Hotdog Way	Mountain View	650-555-5555	9/12/2013 4:56:34 PM	Robin.Goka	False
True	Rich Smith	25 S. El Camino Real	Mountain View	650-902-1189	9/12/2013 4:56:45 PM	Ana.Cruz	False
True	Jerry Louis	456 Blah St.	Seattle	867-768-8768	9/12/2013 5:13:06 PM	chaim.eliyah	False

Showing (1 to 10) out of 22 entries

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2.5.3 Pagination

The pagination arrows move through pages of table data. Each click will make a call to the database to fetch a new set of records to display in the table.

HOME PAGE

The Home Page offers a landing page for Machete news and information when a user logs into their account. The Home Page can also be accessed at any time during a Machete session by clicking on the Machete logo at the top-left corner of the interface.

3.1 Home Page Tabs

The home page contains a number of tabs that provide general information on Machete.

3.1.1 Machete News

The Machete News Tab contains information about the latest updates to Machete. This information is static HTML and is updated by editing the `/Views/Home/Index.cshtml` file in the IIS Machete directory.

3.1.2 Issue Tracker

The issue tracker tab is a simple tab that contains an external link to an open source issue tracker page. Internet access is required to access this link.

3.1.3 Wiki

The Wiki tab contains an external link to this User Manual's Wiki page, hosted on github.com.

3.1.4 Documentation

The documentation tab contains links to PDF and Zip versions of this documentation, generated using automated tools from the Machete Wiki.

3.1.5 About

The about tab contains basic information about Machete including the technology used to create it and the origin of the name.

TERMINOLOGY

Within Machete there are some terms that have a specific meaning.

4.1 Person Record

A person record contains basic information about an individual in Machete.

4.2 Worker Record

A worker record is a companion to the person record and is linked to the person record.

4.3 Employer Record

An employer record is a person or business that calls to hire a worker.

4.4 Work Order Record

A work order record is a request by an employer for one or more workers.

4.5 Pending Orders

A pending order is a new order, or an incomplete order, or an order not yet marked active.

4.6 Active Orders

An active order is an order that has at least one work assignment and has been marked *active*.

4.7 Complete Orders

A complete order has had all of its assignments filled with workers and marked as complete.

4.8 Cancelled Orders

Orders cancelled by the employer

4.9 Expired Orders

Orders that could not be fulfilled (either because no worker was available, or no worker with the specific skill required could be found in time for the job).

4.10 Work Assignment

A work assignment is part of a work order. One assignment is created for each worker needed.

4.11 Dispatch

Dispatch is the process of assigning a worker who has signed-in for the day to an active work assignment.

4.12 Worker Sign-in Record

A sign-in occurs when a worker signs in to Machete. A sign-in is required for the worker to appear in the Machete Dispatch page.

4.13 Skills

Every work assignment requires the selection of the skills necessary to complete the work. Some skills are general skills, such as digging, that any worker can fulfill. Other skills are specialty skills, which limit which workers are eligible to be assigned to the work assignment.