Progress Pacific: A Technical Overview

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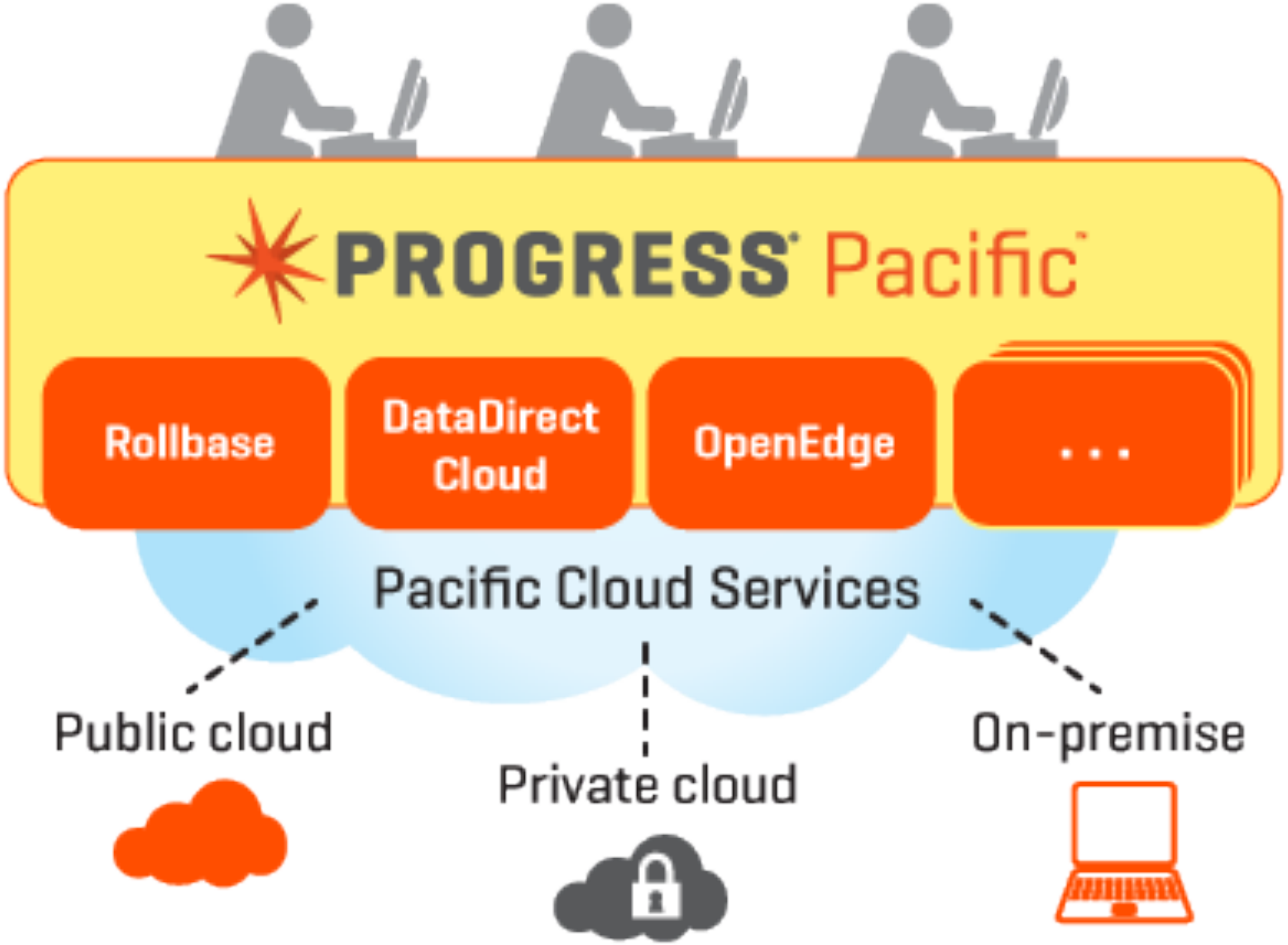
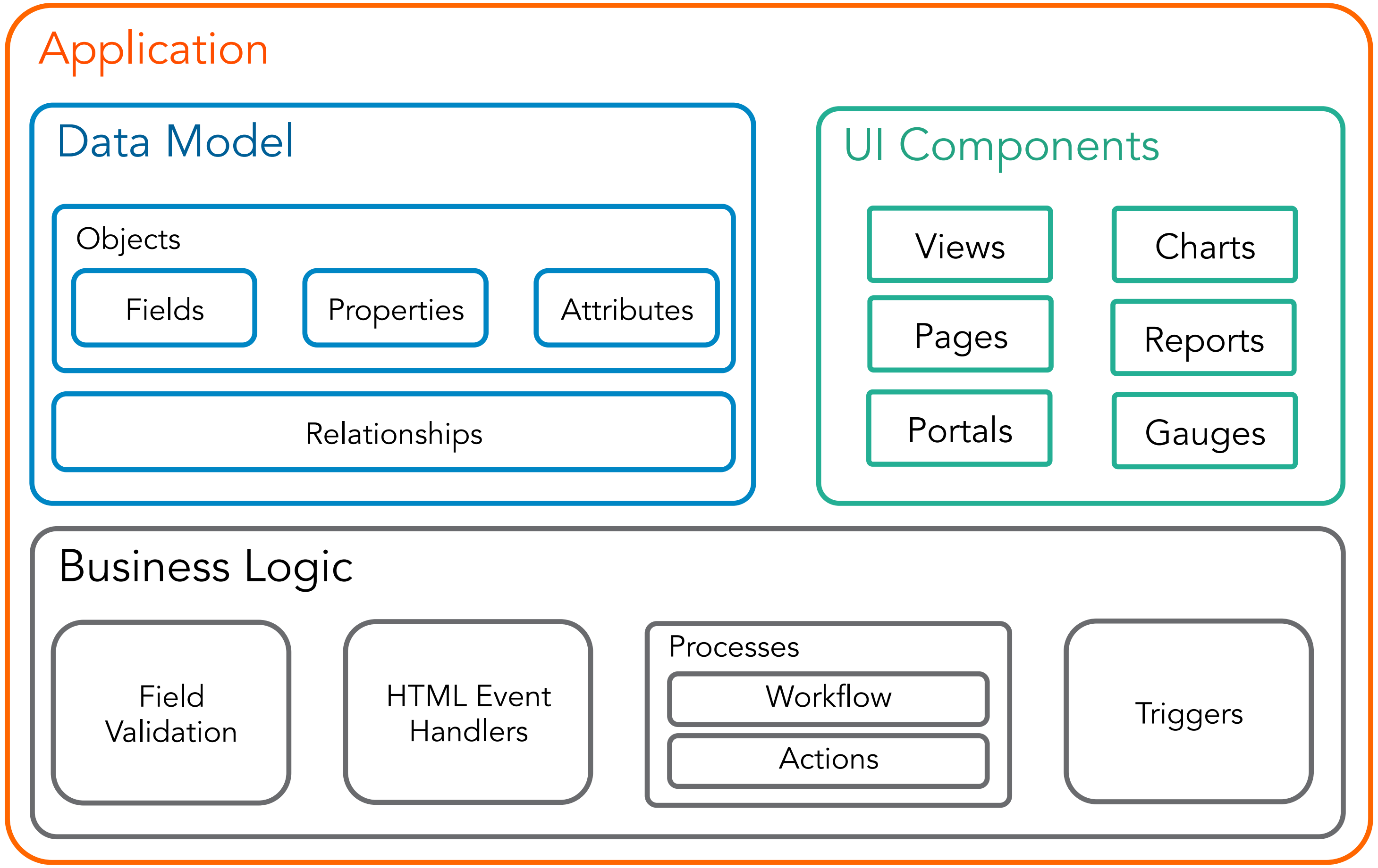
PROGRESS EXCHANGE 2013
DISCOVER. DEVELOP. DELIVER.

To power the **rapid creation and deployment** of powerful business applications that are **driven by data** and **unlimited by device or cloud**

Progress Pacific



Pacific Rollbase Application Components



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The Data Model

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Objects

- Basic building block of applications
- May represent any kind of business data: Customers, Employees, Products, etc.
- Records are actual instances of Objects, for example, for an Object called Employee each record would represent an actual employee in your company

Components of an Object

Fields

- Specifies what type of data is stored with each Object record

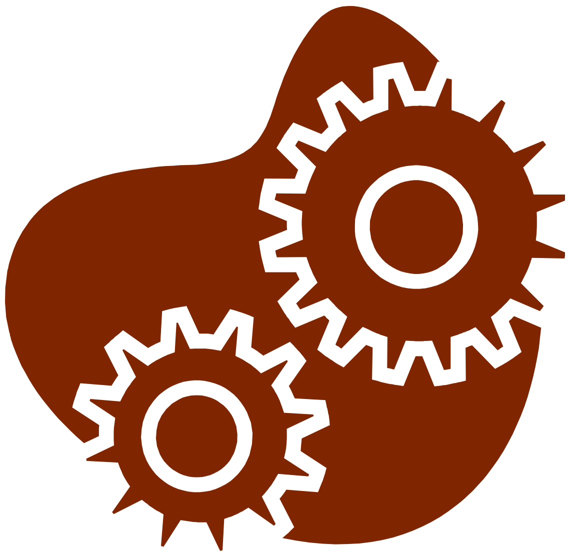
Properties

- Define the characteristics and basic behavior of the record

Attributes

- Control specific Object behavior and contain a default set of fields

Two Ways to Create Objects



From Scratch

Based on External Data

UI Components

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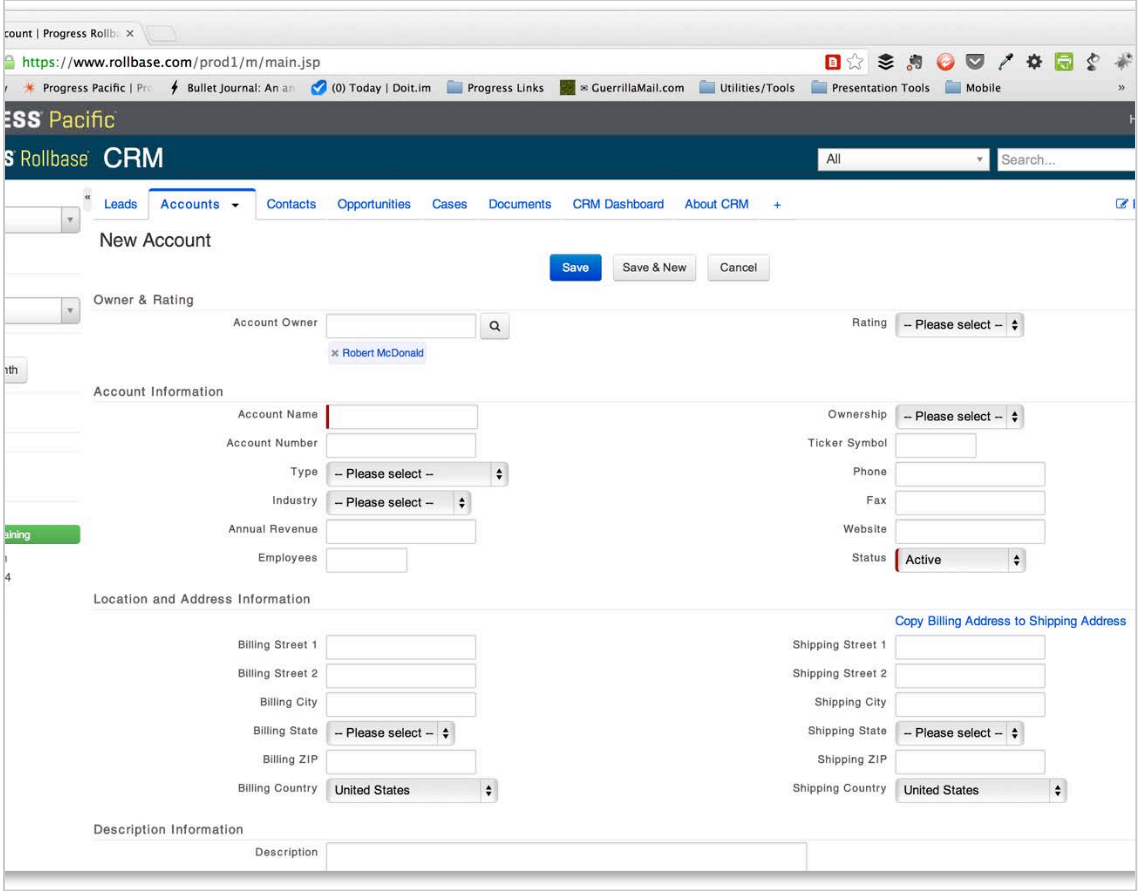
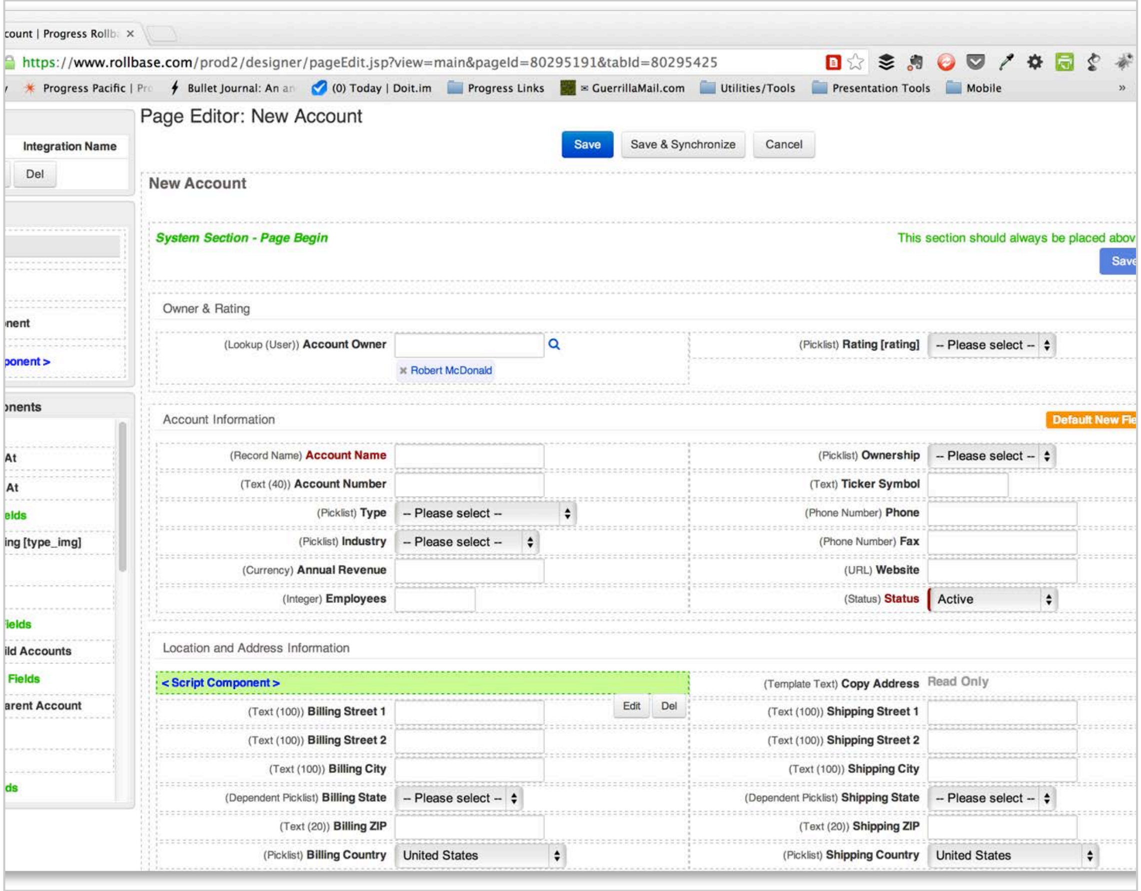
Pages

Application Page

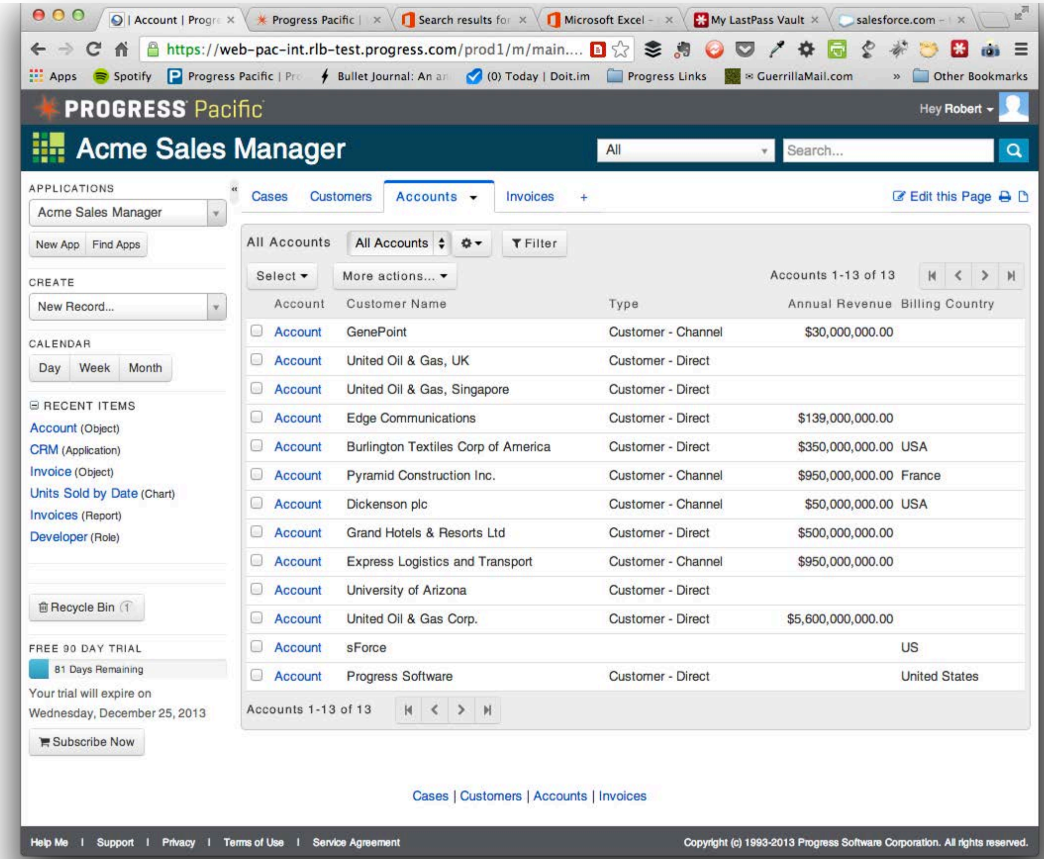


Page Editor

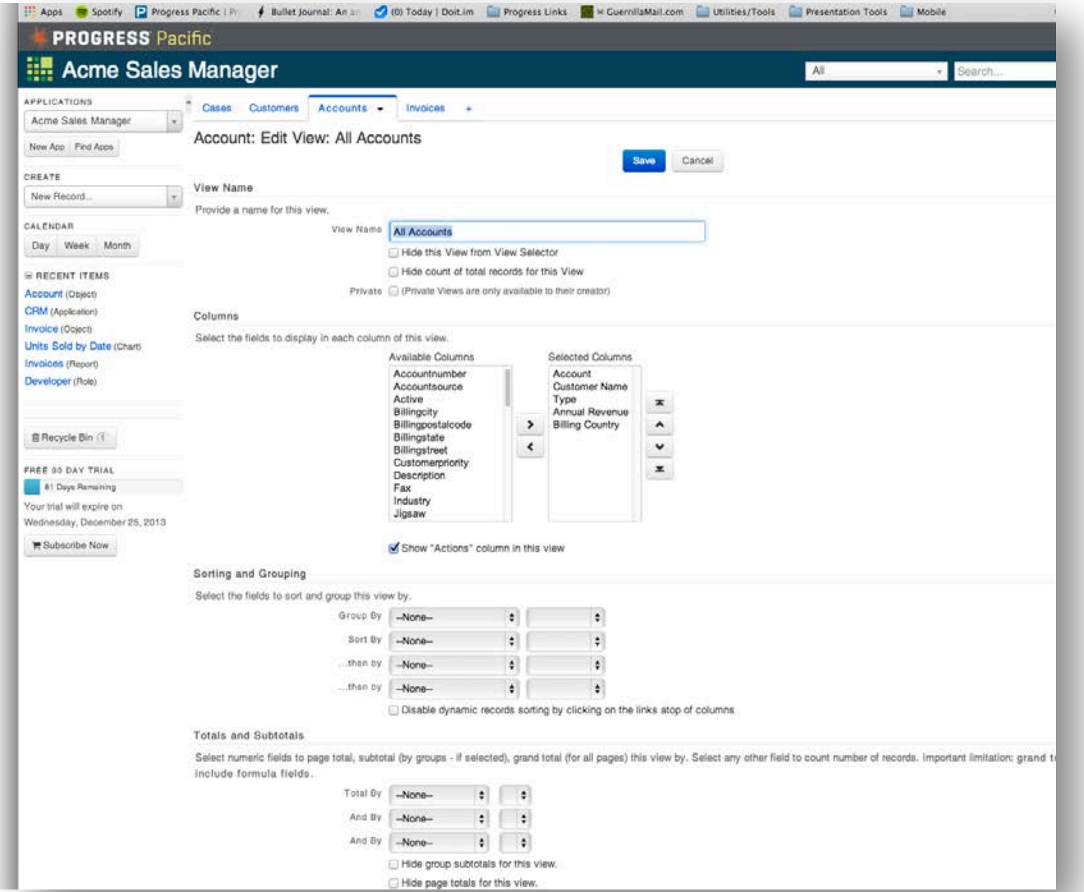


Views

View Page



View Editor



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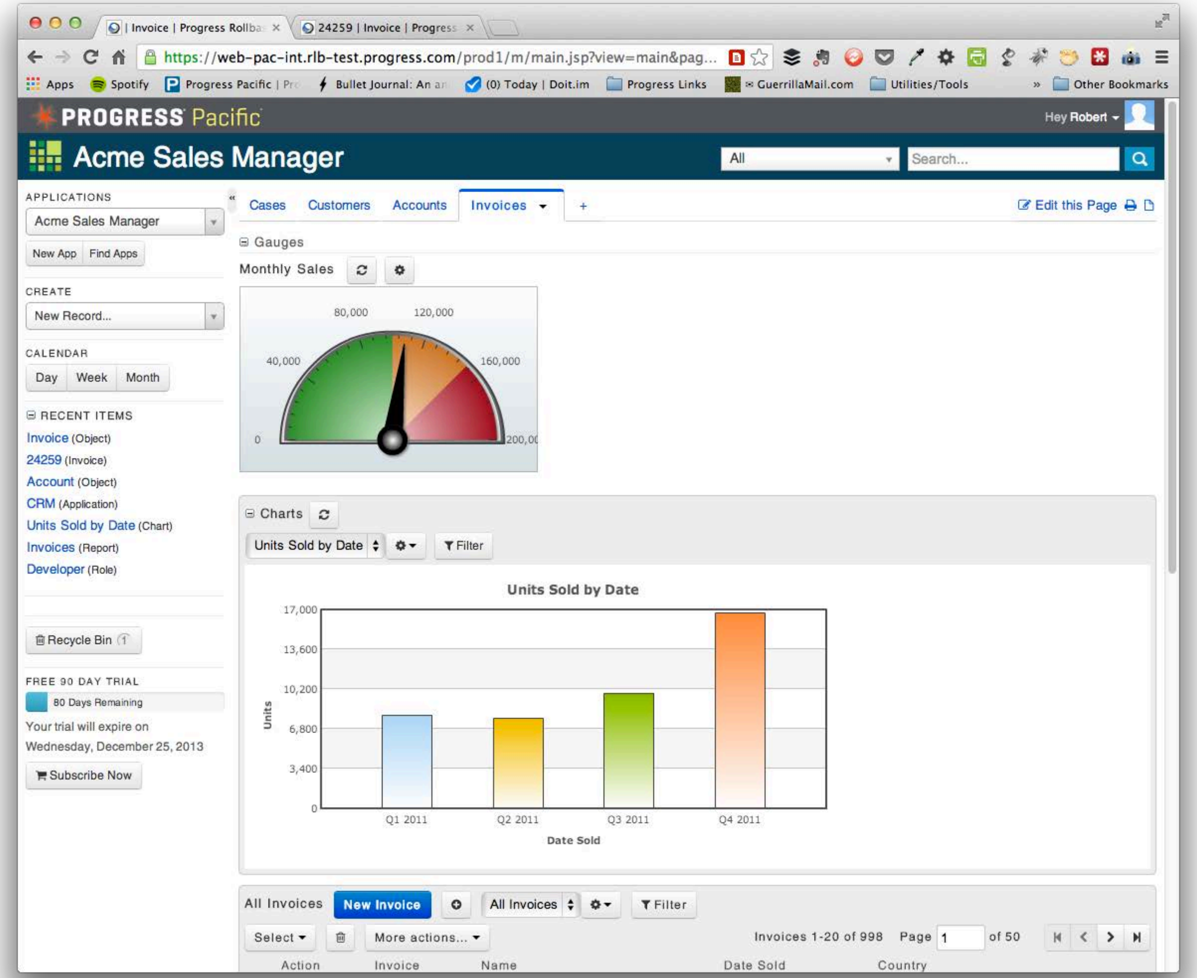
Charts and Gauges



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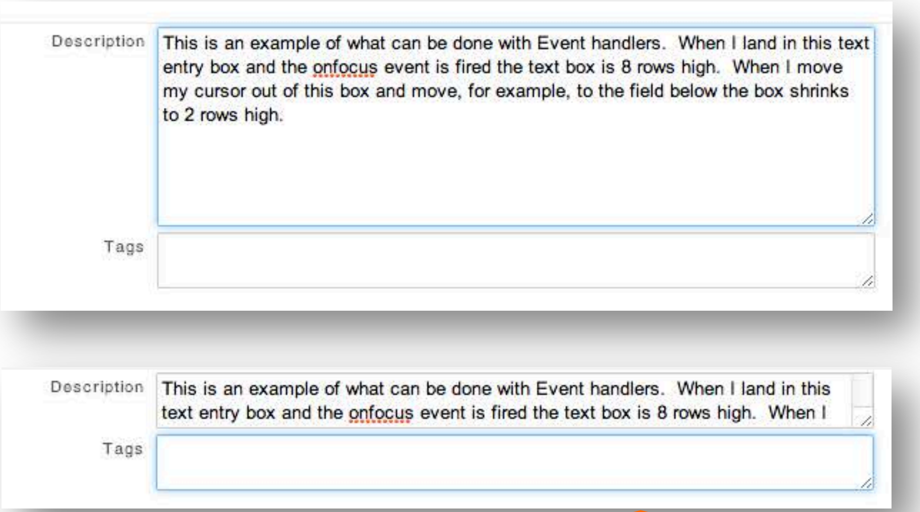
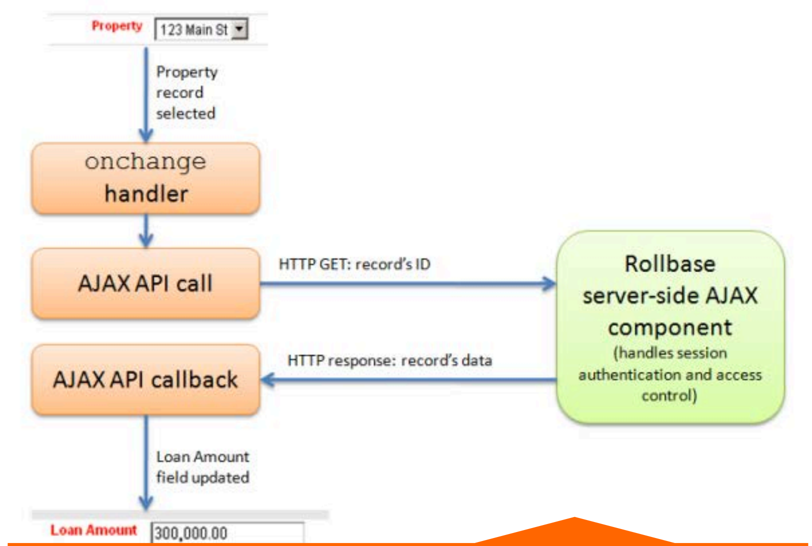
Business Logic

Field Event Handlers

- Customize behavior of HTML components
- May use AJAX API when you need to add/update/retrieve data from other Rollbase records
- Examples:



Change the size of the text area when the user enters enters and leaves the text box



Look up the appraised value of a selected property record to prepopulate the loan value of a mortgage application

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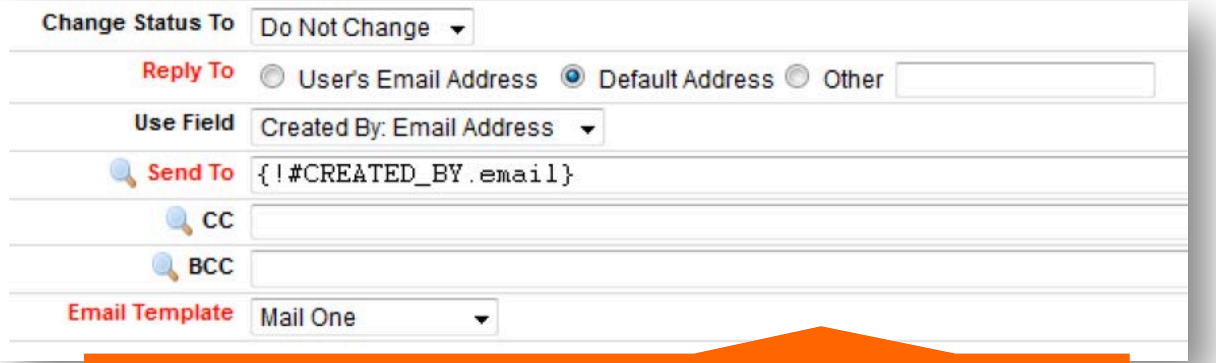
Statuses

- Indicate current state of a record
- Similar to picklist values, with a special meaning in Workflow
- Determines the set of currently available Workflow Actions
- May be assigned through Workflow Actions, or explicitly by editing an object record.

Actions

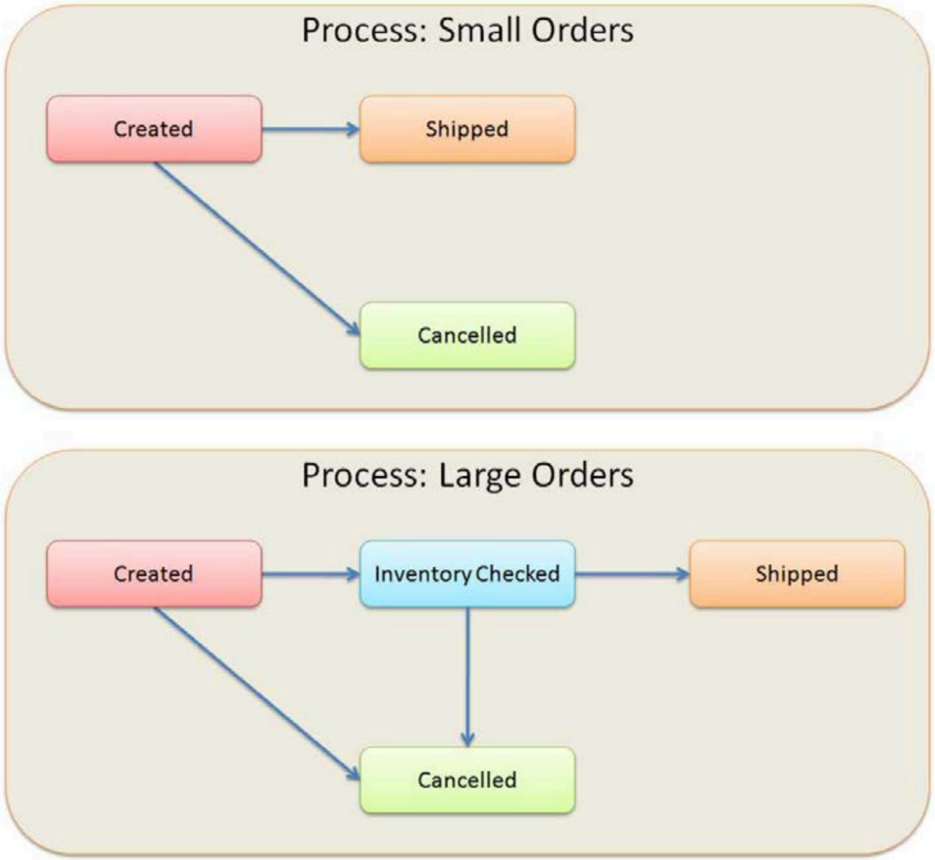
- An operation that a user can perform on a record
- You can use Actions to
  - Change Workflow status
  - Create A Related Record
  - Send Email
  - Generate A Template-based Document
  - Run a group of triggers
- May be limited only to certain roles or users
- Group Actions: Allows the action to be performed on a group of records in a list View



Setting up a Send Email Action

Processes

- A container for a set of statuses and actions, that as a whole make up a particular workflow process
- May define more than one process



Triggers

- Enables automatic workflow upon record creation, update or deletion
- Can configure any number of Triggers to perform:
  - Automated validation
  - Programmatic validation
  - Notification
  - Data manipulation and other activities
- All triggers may be conditional, i.e. Run triggers on orders > $10,000

Timing Options
Before/After Create
Before/After Update
Before/After Delete
On Finalize
On Login
On Logout

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