
FEATURES

Forms Design

- Forms designer - Rapidly build new forms
 - Lay out controls and setup options for them
 - How they're rendered
 - Bind them to datasets and give them specifications and scores
 - Make them able to fire actions
 - Setup form properties
 - Set up the workflow
 - Control how the summary grid functions
- Rich Control Set
 - Label (which can be used for math and calculations)
 - Text Entry
 - Dropdown (can be bound to a fixed list or a cache)
 - Pass/Fail
 - Date Picker
 - Tally
 - Picture (upload pictures)
 - Sample (record arbitrary number of sample records)
 - Button Bar
 - Quantity Control (with optional UOM)
 - Digital Signature
 - Section Header (for grouping)
 - List
 - Dynamic Include - insert contents of other form
 - Dynamic Control - build controls based on cache contents
- Workflow
 - Break parts of form up by role
 - Change form appearance based on what phase it's in
 - Control what roles can finish or promote forms (a line user might can start and fill out the beginning of a form, but a supervisor must finish it -- equivalent of signing off on it)
- Actions
 - Send an email
 - Process an arbitrary SQL statement
 - Launch another form (such as a CAR)
 - Hide/Show fields
 - Adjust task frequency
 - Form group setup

- Tasks
 - Generate a form which needs to be filled out and assign it to someone
 - Automatically create tasks based at a given interval or on workflow completion
- Commenting - allow comments to be added (with photos)
- Documentation - allow user readable documentation to be added to form
- Header Grid Customization - specify how the summary grids will appear
- Detailed specifications:
 - Types
 - Pass/Fail
 - Specification, Control and Validation limits
 - Simple Defect Count
 - Fire Custom actions
 - Evaluation of specification can calculate a score (see below)
 - Custom or fixed binding to cache databases with filtering (can be made to allow specs to be per item for example, or base them on any other field on the form)
 - Specifications and scores can all be bound to the same record of a dynamic control
- Scoring Engine
 - Assign scores with any of the above specification types
 - Score values can also be bound onto a cache

- Service Integration
 - MQTT and AMQP Integration
 - Ability to log in/out terminal with MQTT messages (eg: from RFID reader tags)
 - Scale/Device integration via MQTT
 - Form data publication via AMQP (and MQTT)
 - SQL Persistence - automatic persistence to SQL database
 - Schema is automatically managed and adjusted when the form design changes
- Security/Authentication
 - Create local user accounts
 - Integrate with AD server
 - Role based security model
 - Menu visibility can be role based
 - Field visibility within form can be role based
 - Workflow can be role based
 - Enrollment System
 - Email Invitation
 - User customizable enrollment form on setup
 - Kiosk mode
 - Station automatically logs in to a fixed set of forms
 - Contexts - for organization management - company/warehouse, etc

- Robust Infrastructure
 - Uses the Meteor/NodeJs framework
 - Can be run in Docker Virtualization
 - Real-Time Co-browsing for data entry - immediate updates
 - Can be Clustered for Failover/Load-Balancing
 - Automatic Styles for Desktop Browsers, Tablet and Mobile Devices
 - Can be deployed in an Enterprise Data Center or on the Cloud
 - Has Error Telemetry and easy to use system status screen
 - Designed to continue operating during temporary network faults