



RainCatcher, Field Workforce Management

Conor O'Neill Product Manager, Red Hat Mobile

Mobile is Driving Digital Transformation

2010-13 CONSUMERIZATION

2013-16 MOBILE ENTERPRISE 2016+ DIGITAL ENTERPRISE

- iOS Support
- Experiment Apps
- Point Solution
- Risk Management

- Multi-Device
- Targeted Apps
- Dev Platform
- Business Enablement

- Wearables
- Internet of Things
- Mobile Architecture
- Business Transformation

Device-centric

App-centric

Information-centric





BUSINESS DRIVERS TO START A MOBILE STRATEGY

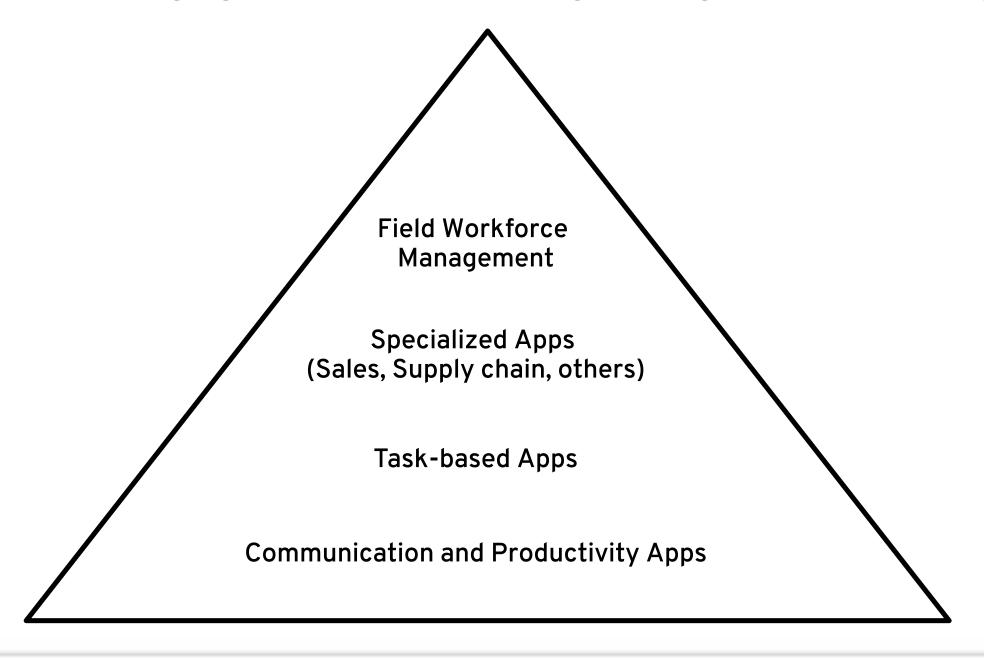
B2E, INTERNAL APPS

- Improve workforce productivity
- Streamline operations and reduce cost
- Quicker response with real-time information
- Replace paper-based processes
- Reduce travel time
- Add location and context to all processes
- Increase sales and services revenue
- Improve customer satisfaction





TYPES OF ENTERPRISE MOBILE APPS



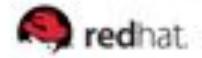




TASK-BASED ENTERPRISE MOBILE APPS

- Operations status for Management, dashboards
- Time entry
- Contact information and escalations path
- Mobile brochure or catalogue
- Sales quotes
- Alerting
- Data entry, forms and submissions
- Way finder

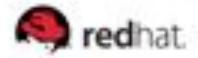




SPECIALIZED ENTERPRISE MOBILE APPS

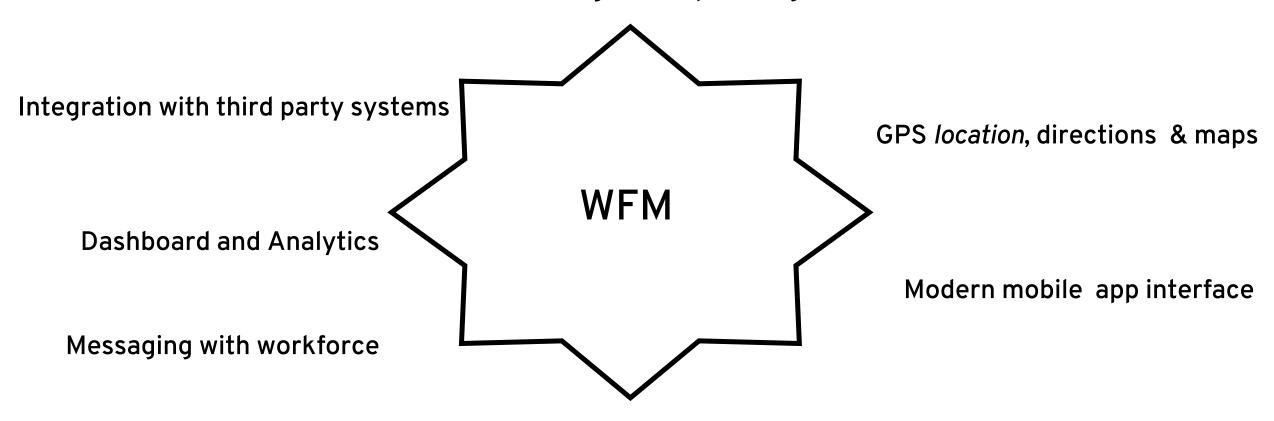
- Inventory and procurement
- Claim submission
- Supply chain management
- Geo-fencing solutions
- Inspections, risk assessments
- Document approvals
- Sales process management
- Business intelligence and analytics





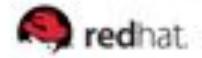
FIELD WORKFORCE MANAGEMENT APPS

Job scheduling and dispatching of orders



Flexible configuration to define your workflow





DECIDE ON MOBILE TECHNOLOGY

Native Apps	Hybrid Apps	Web Apps
 Different programming languages, platform specific Higher cost and time for development Usability with latest device features 	 Build with HTML5 (CSS, HTML & Javascript) Multiple open source frameworks Cross-platform Plugins for extensibility 	Mobile browser based Fewer mobile device features Often not an optimal mobile experience Progressive Web Apps a leap forward



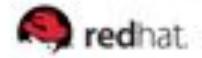


DECIDE ON MOBILE TECHNOLOGY

OTHER CONSIDERATIONS

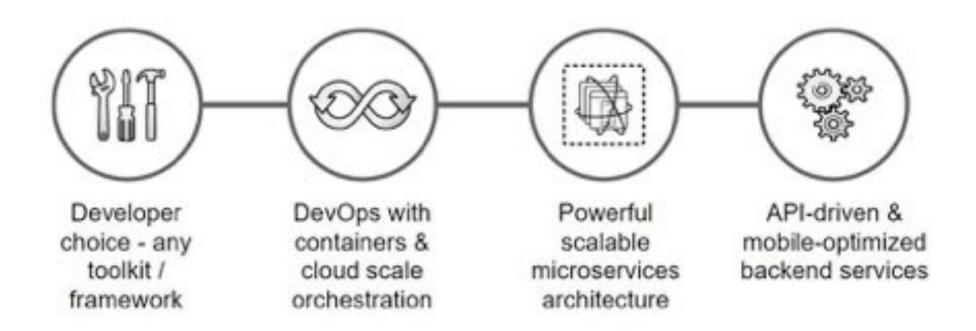
- Backend integrations (Web Services, RESTful APIs, legacy)
- Use of third party services (cloud services for storage, analytics, etc.)
- BYOD or device specific (iOS, Android, Windows Universal)
- Form factors for phones and tablets
- App distribution (MDM, MAM, other)
- Security policies





Red Hat Mobile Application Platform

Accelerates the development of mobile projects by providing a full stack, collaborative development & runtime environment with secure integration and ready-to-use backend services



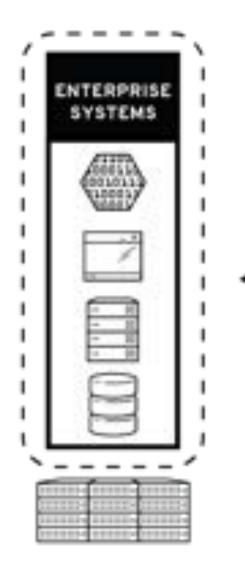




V3.x



RED HAT® MOBILE APPLICATION PLATFORM





CORE APP DEVELOPMENT LIFECYCLE MANAGEMENT TEMPLATES **ANALYTICS & ALERTS** NATIVE & HYBRID SDKs PRIVATE APP STORE FORMS BUILDER GIT REPOSITORIES TUTORIALS UNIFIED PUSH SERVER DOCUMENTATION USER MANAGEMENT CREDENTIALS MGMT TEAMS **DEVELOPMENT TOOLS** COLLABORATION COMMAND LINE (CLI)

STUDIO

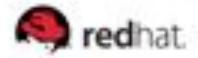


BUILD FARM

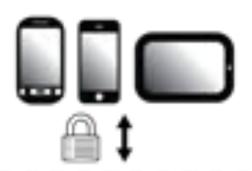
MULTI-DEVICE

APP BUILDS

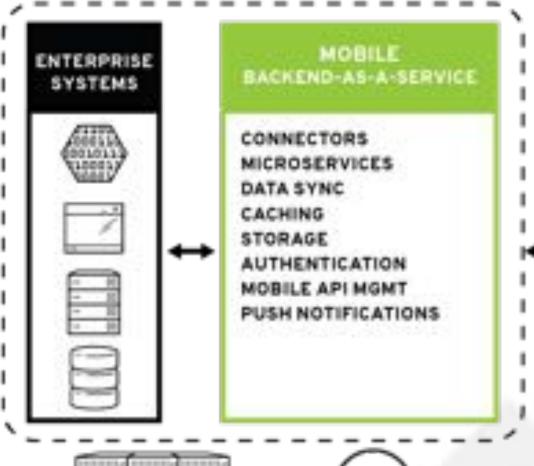


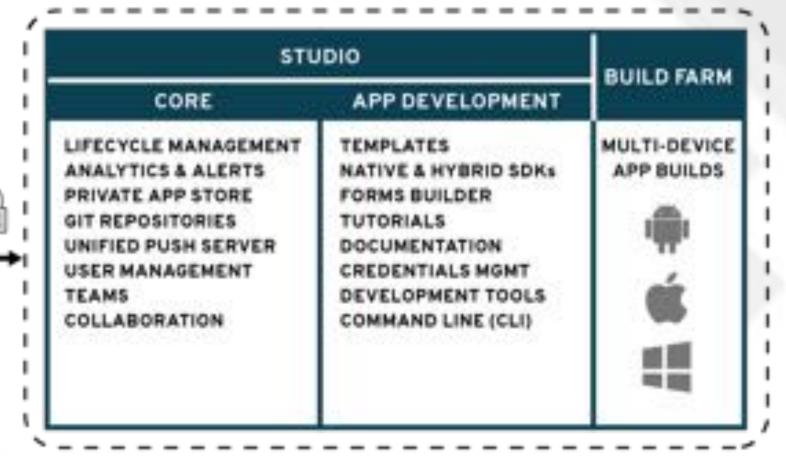


V4.1



RED HAT* MOBILE APPLICATION PLATFORM





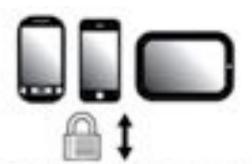






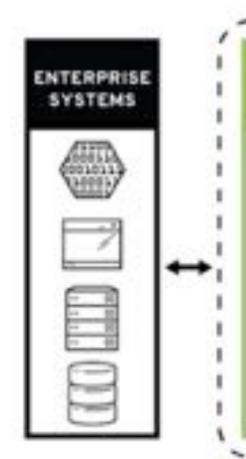






MOBILE APPLICATION PLATFORM

4.2



MOBILE BACKEND-AS-A-SERVICE

CONNECTORS
MICROSERVICES
DATA SYNC
CACHING
STORAGE
AUTHENTICATION
MOBILE API MGMT
PUSH NOTIFICATIONS

STUDIO

APP DEVELOPMENT

LIFECYCLE MANAGEMENT
ANALYTICS & ALERTS
PRIVATE APP STORE
GIT REPOSITORIES
UNIFIED PUSH SERVER
USER MANAGEMENT
TEAMS
COLLABORATION

CORE

TEMPLATES
NATIVE & HYBRID SDKs
FORMS BUILDER
TUTORIALS
DOCUMENTATION
CREDENTIALS MGMT
DEVELOPMENT TOOLS
COMMAND LINE (CLI)





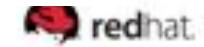




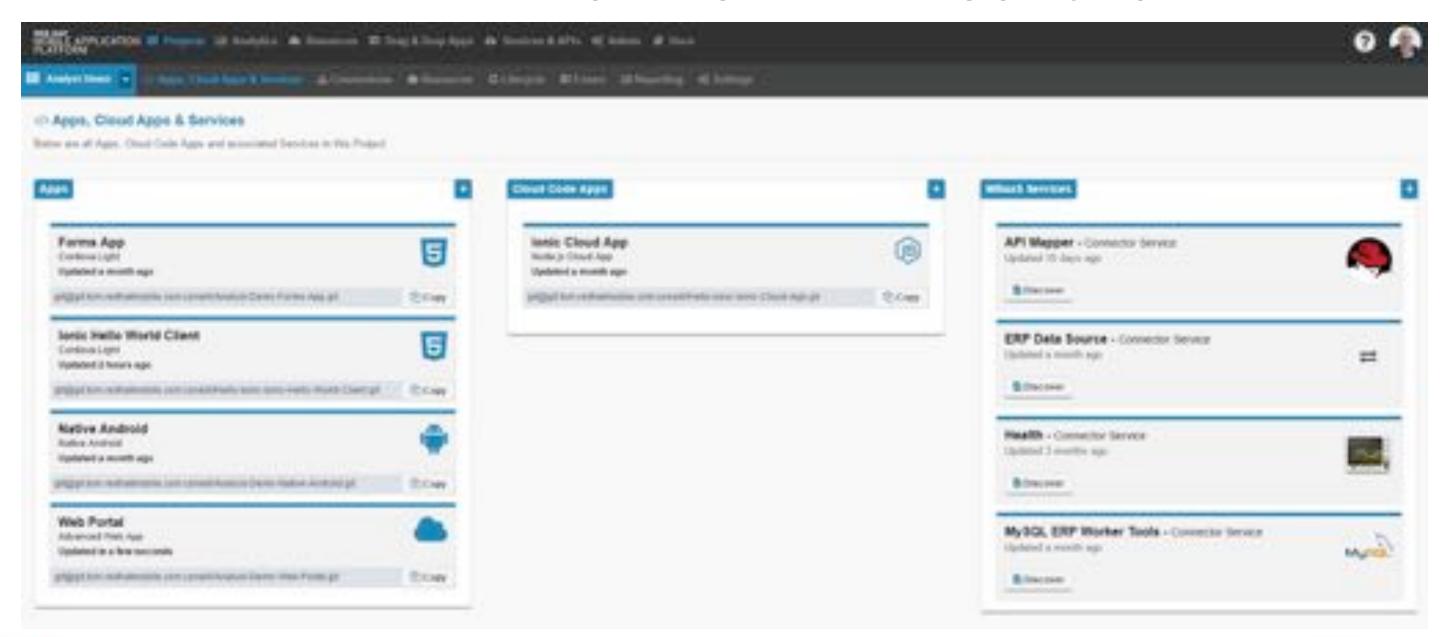








ENTERPRISE MOBILE PROJECTS

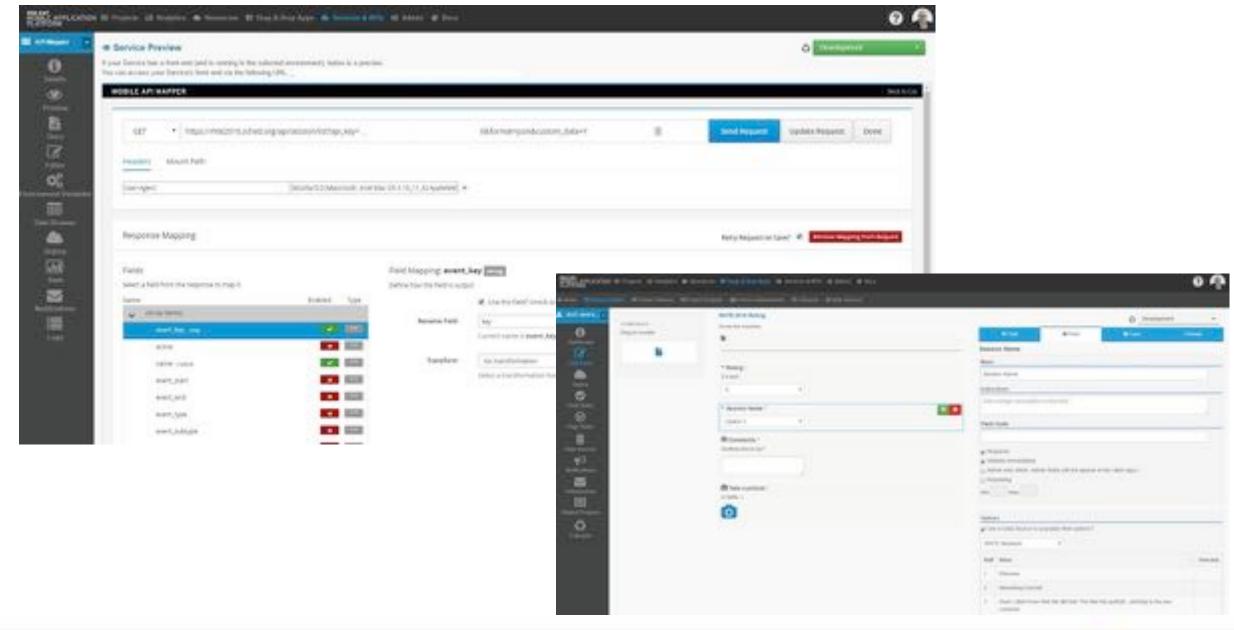






RAPID MOBILE APPLICATION DEVELOPMENT









WFM / RainCatcher







WORKFORCE MANAGEMENT APPS WITH RHMAP

- Make it easier for developers to build Workforce Management apps
- Take advantage of key features of the Red Hat Mobile Application Platform:
 - Multi-platform support
 - Mobile and Cloud SDKs
 - Reusable Services
 - Forms Builder
 - Offline Data sync
 - Cloud storage
 - Caching
 - Web portal
 - Messaging
- Pre-built Node.js and JavaScript modules for developers to use





NPM



What can you make with 300,000 building blocks?

The right registry hosts over a quarter indice packages of restable code — the largest code registry in the world.



Find

Popolar Ibraries Illie (Query, Bootstrap, React, and Angular, and components from Itemeworks Including Polymer.



Discover

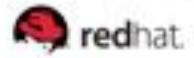
Packages for mobile, loft, from end, back end, rebotos... everything you need to start building amount dings.



Build

Assemble packages like building blocks to quickly develop asemune new projects.





WORKFORCE MANAGEMENT MODULES

- Set of re-usable NPM modules (Node.js and JavaScript)
- Open Source
- Available in Red Hat Mobile Application Platform
- Template Mobile App and Web Portal
- AngularJS
- Material Design
- Mediator Pattern

Visual modules

- fh-wfm-workflow
- fh-wfm-workorder
- fh-wfm-user
- fh-wfm-component-signature
- fh-wfm-results
- fh-wfm-message
- fh-wfm-schedule
- fh-wfm-file
- fh-wfm-camera
- fh-wfm-analytics
- fh-wfm-risk-assessment
- fh-wfm-vehicle-inspection

Low-level modules

- fh-wfm-sync
- fh-wfm-appform
- fh-wfm-mediator
- · fh-wfm-template-build





WORKFORCE MANAGEMENT SAMPLE PROJECT



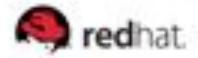




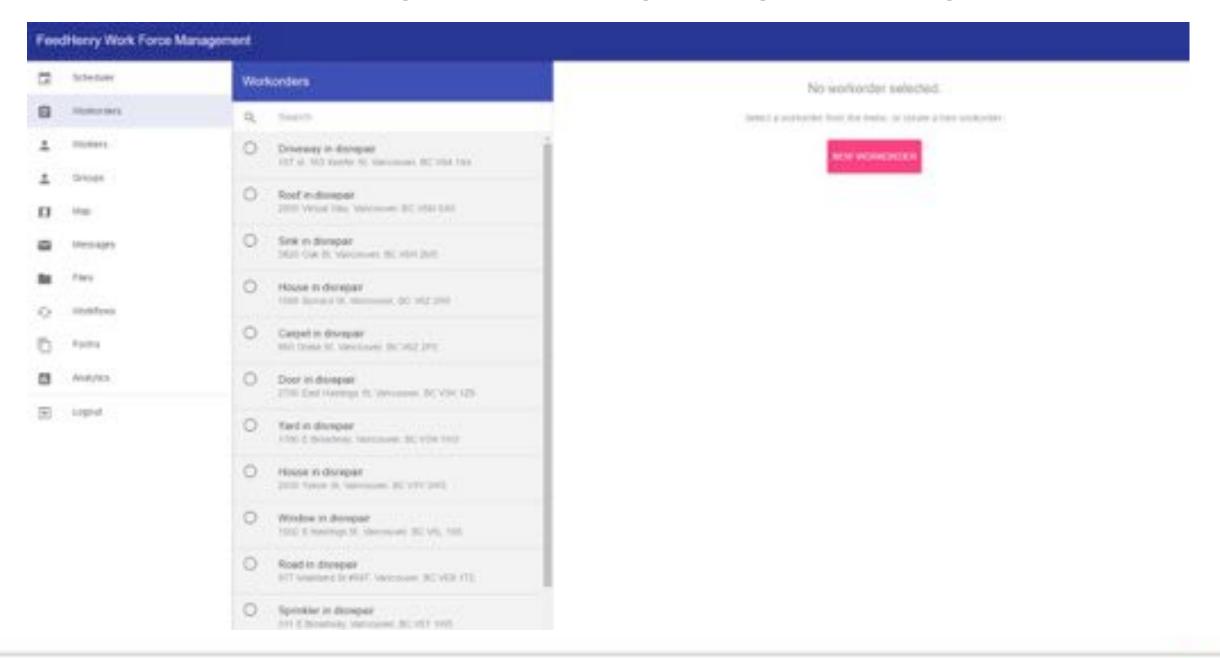
SAMPLE WEB PORTAL FEATURES

- Dispatch work orders to workers in the field
- Define workflows for different jobs
- Manage, organize and create work orders, workflows and information
- Real-time reporting
- Live messaging
- Geo-location, maps of jobs and workers on the field
- User creation and authorization
- Visibility of all jobs content from photos to scanned barcodes and signatures





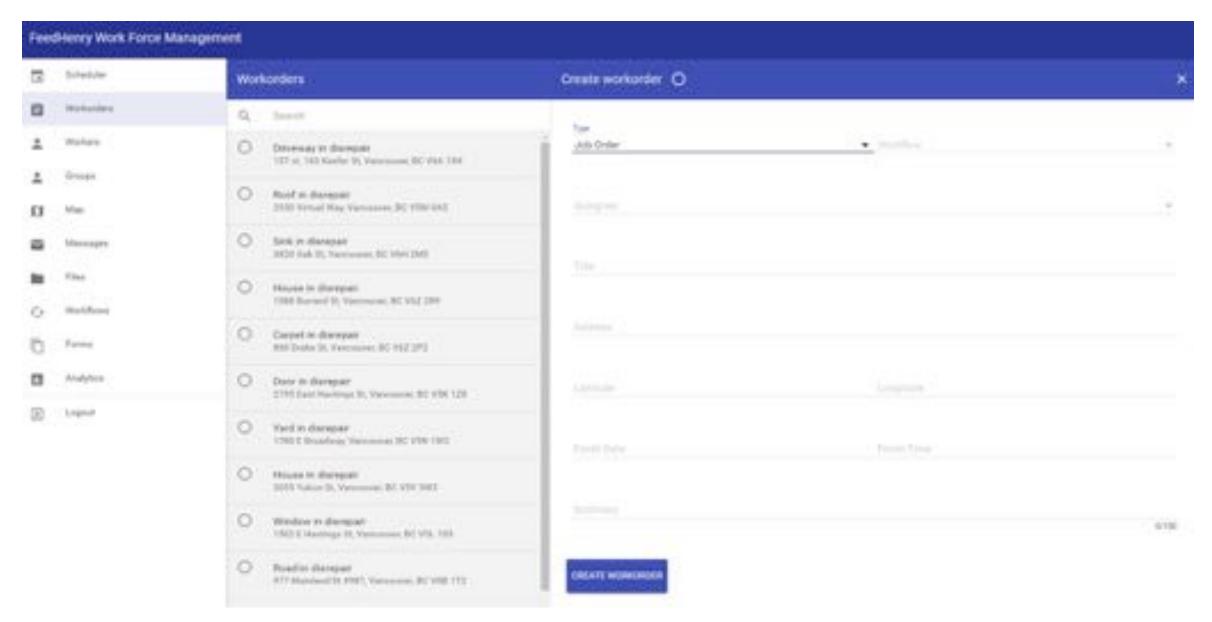
WEB PORTAL WORKORDERS







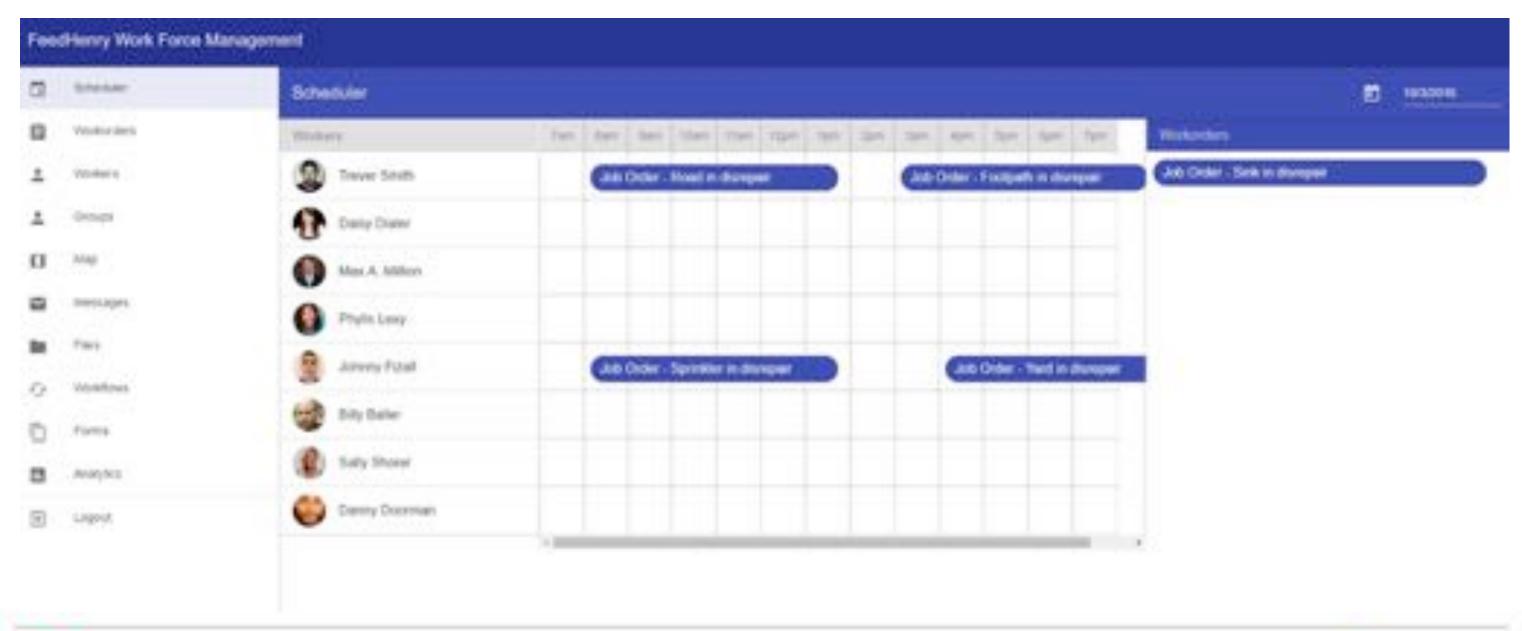
WEB PORTAL NEW WORKORDER







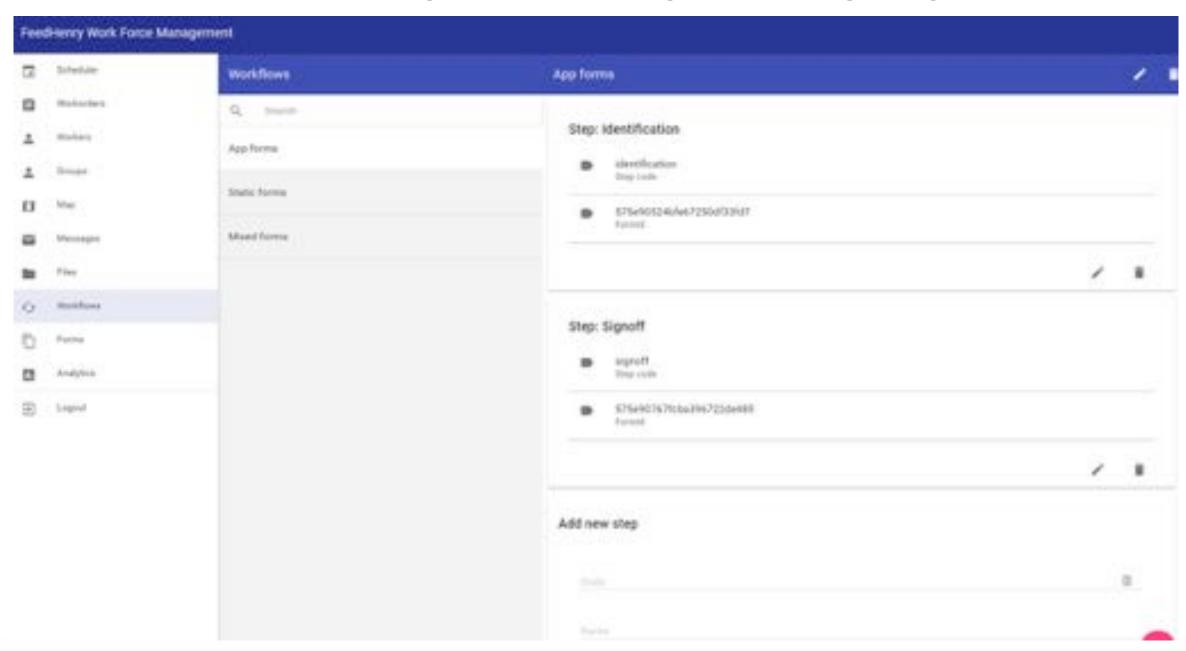
WEB PORTAL SCHEDULER



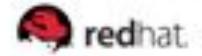




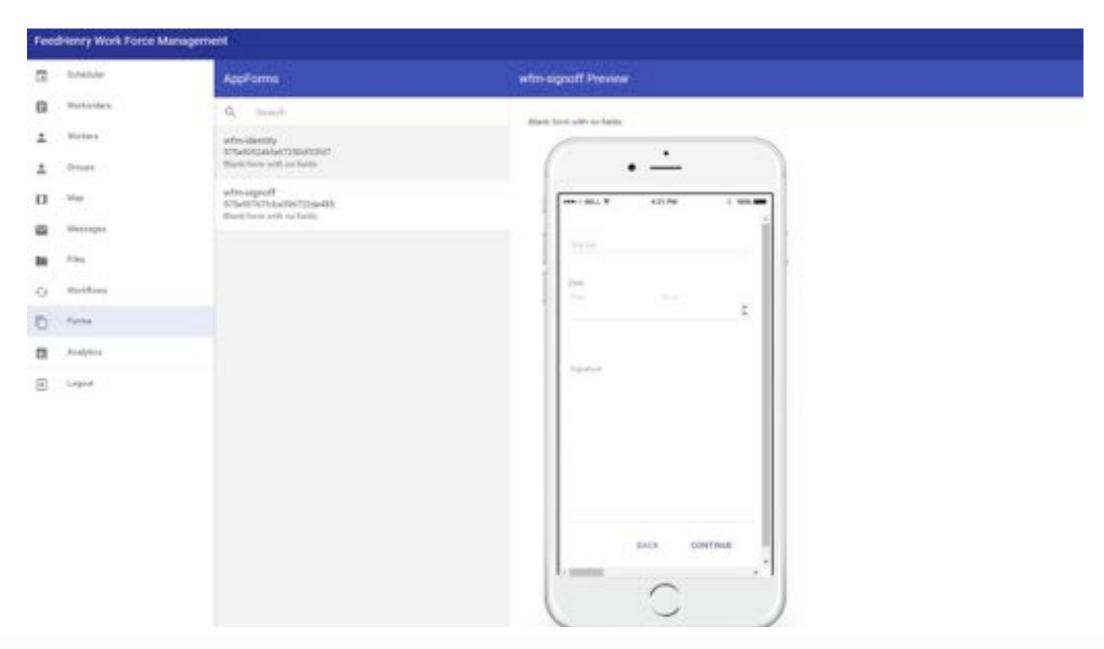
WEB PORTAL WORKFLOWS



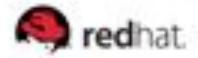




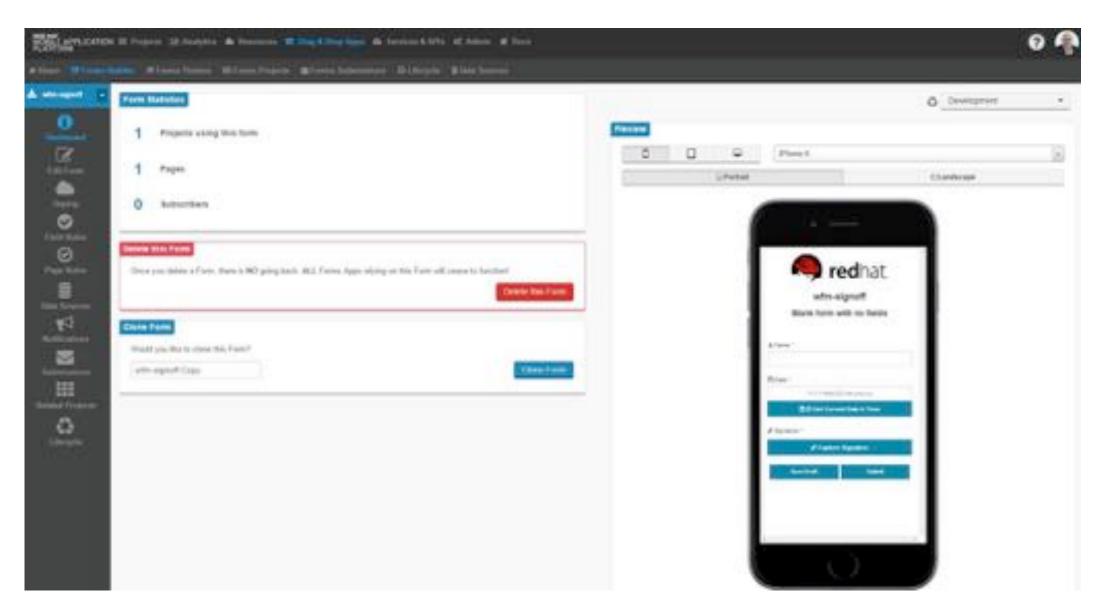
WEB PORTAL WORKFLOW FORMS







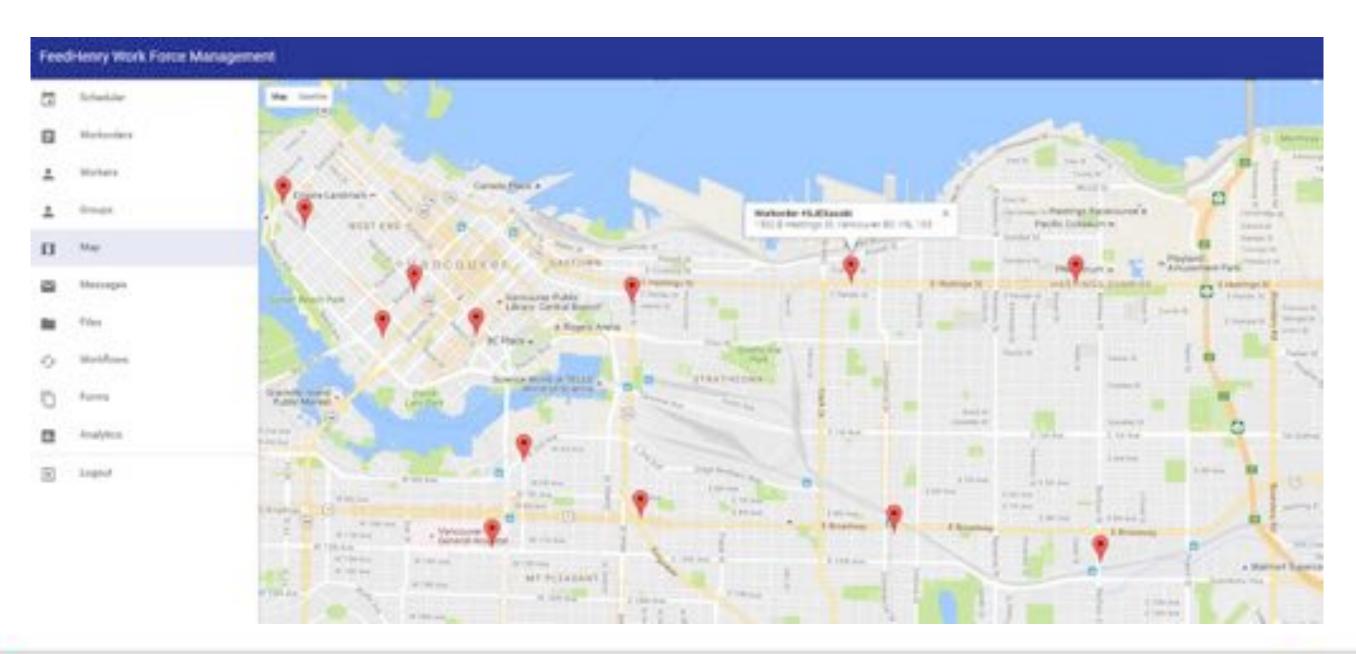
FORMS INTEGRATION







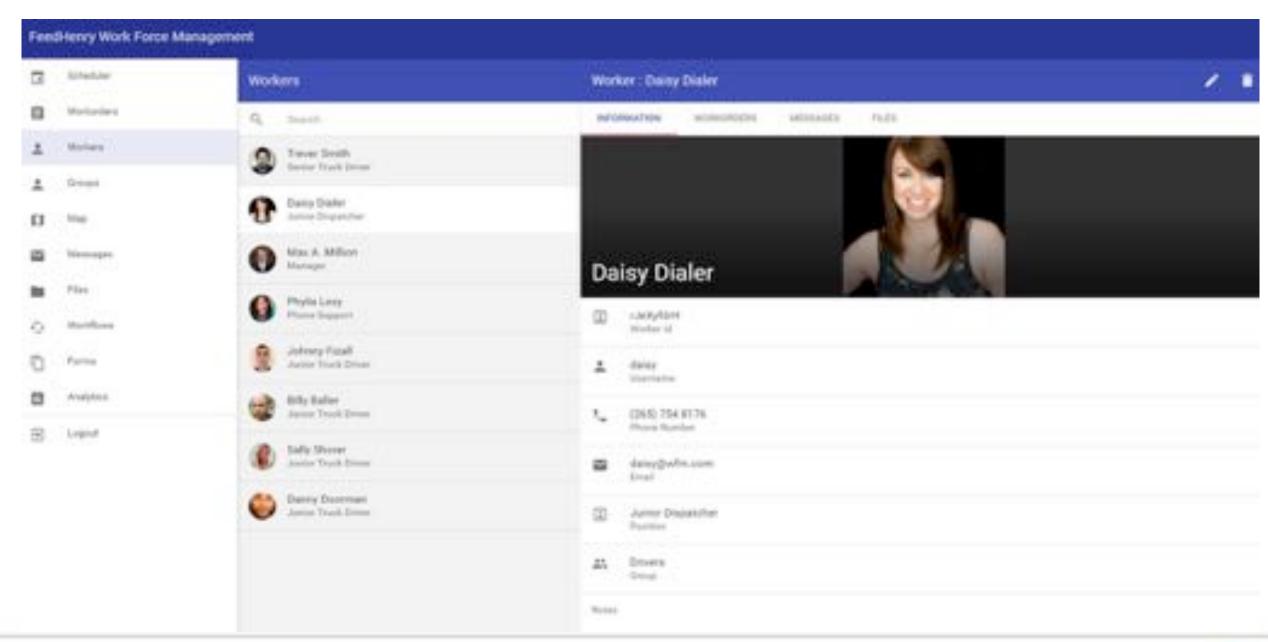
WEB PORTAL MAPS







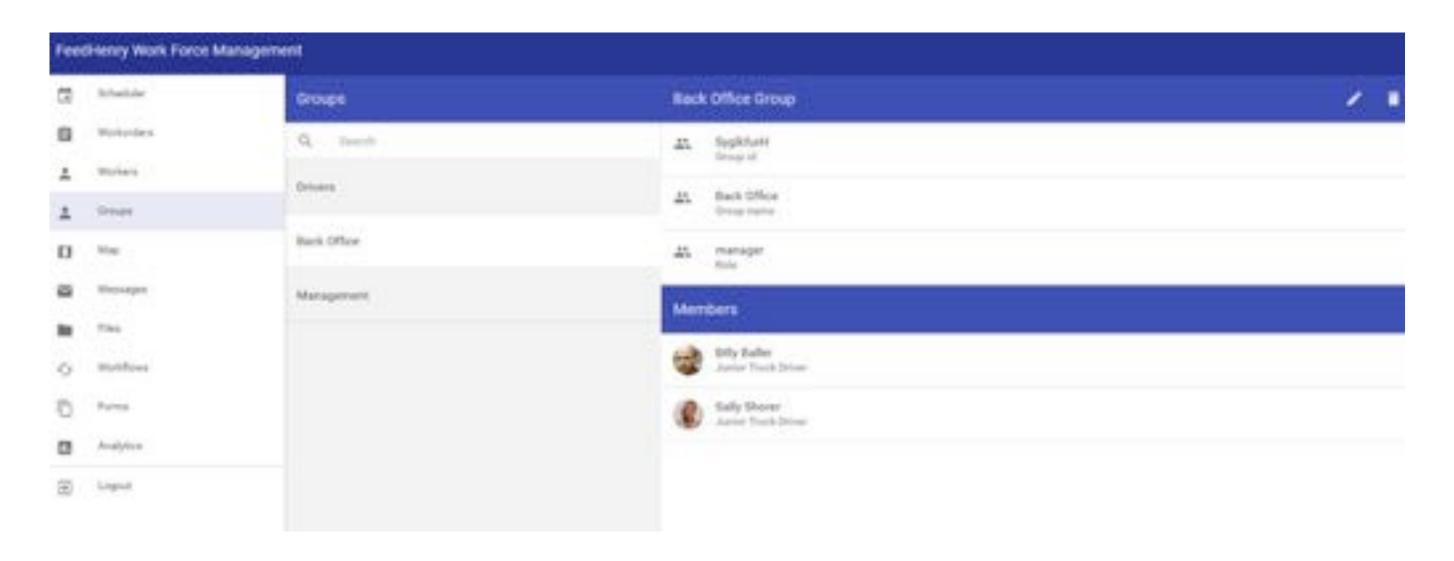
WEB PORTAL WORKERS







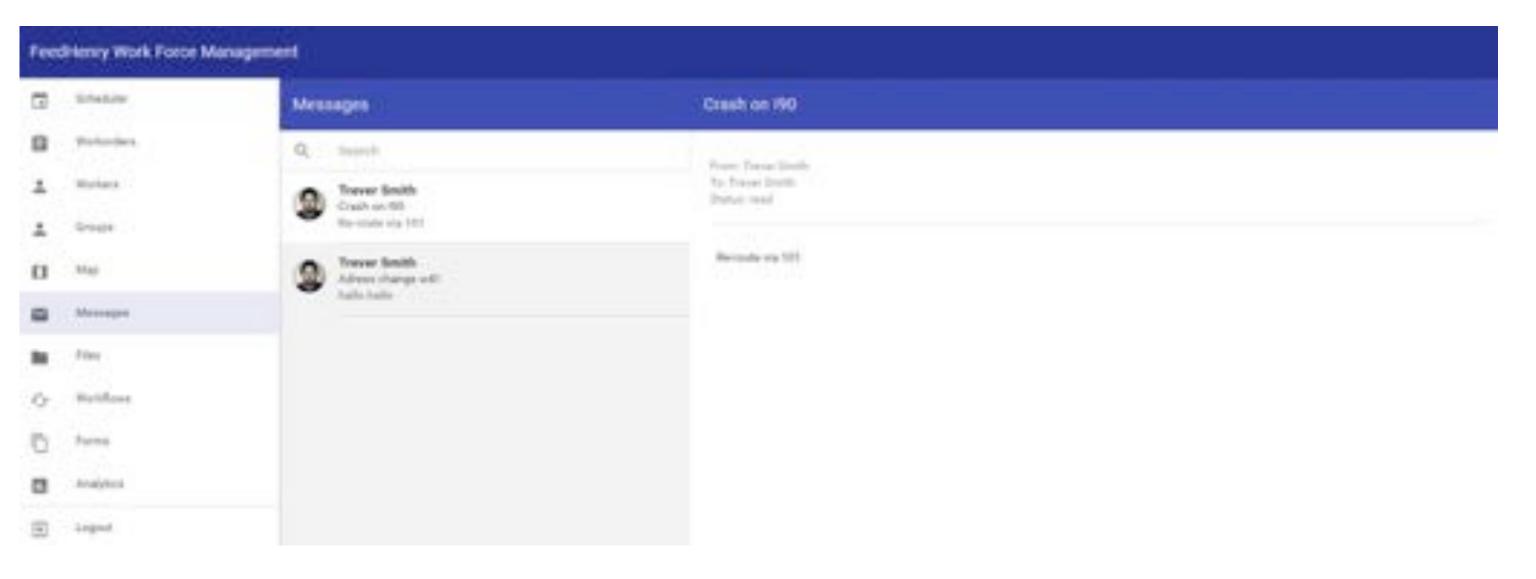
WEB PORTAL GROUPS



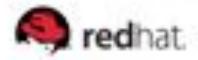




WEB PORTAL MESSAGING







WEB PORTAL ANALYTICS

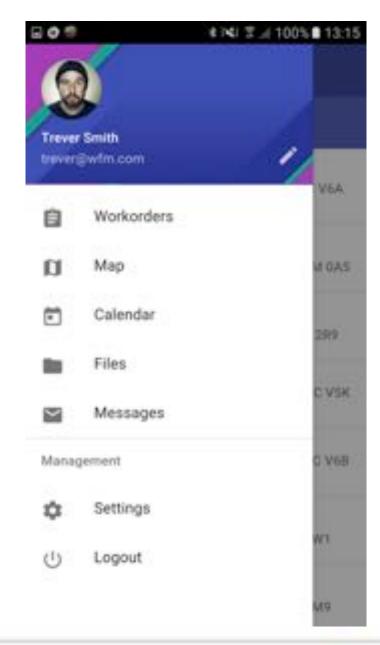






SAMPLE MOBILE APP FEATURES

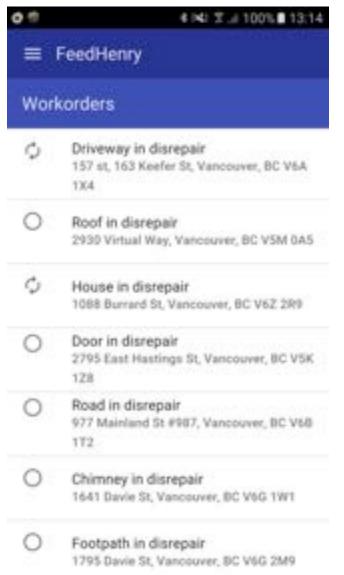
- Capture text, files, photos and signatures
- Add geo location and time stamps
- Retrieve the latest customer and order information
- Complete and assign new job and tasks
- Functions online and offline, real-time sync
- Messaging to communicate with workers

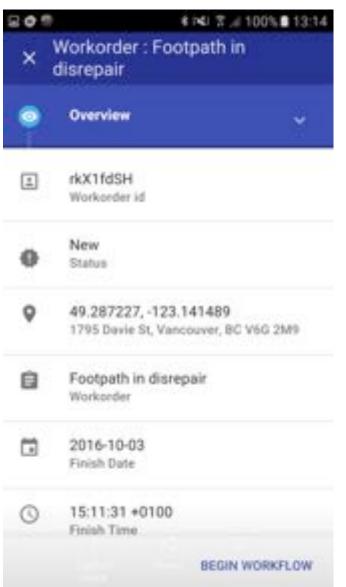




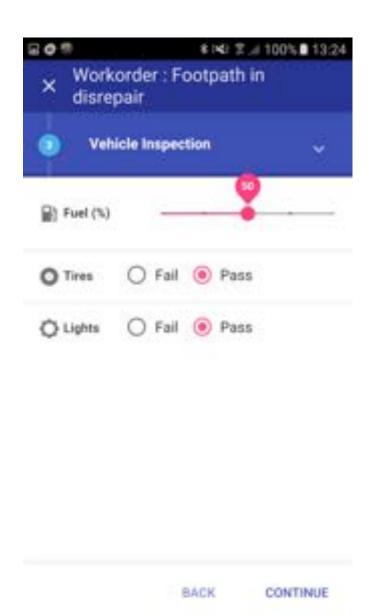


MOBILE APP WORKORDERS







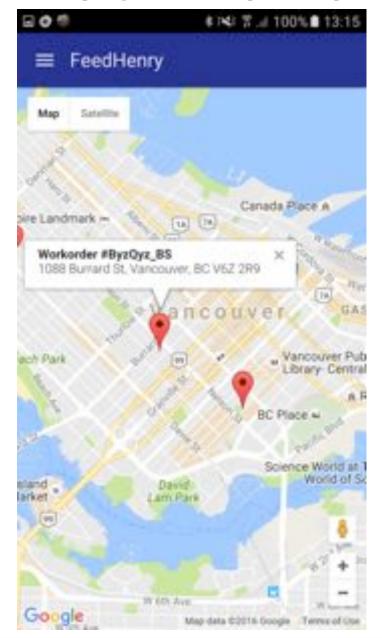


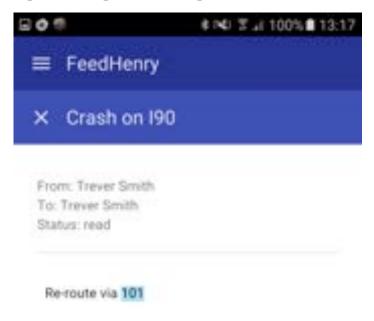




MOBILE APP LOCATION & MESSAGING











OPEN SOURCE RainCatcher MODULES





- Community driven project
- NPM modules
- Build your own modules
- Subset of community becomes part of RHMAP supported modules

feedhenry.org







sedhat.