



MADELABS
TECHNOLOGY

Vessel Vanguard

VV360
iPad Application

Statement of Work

11/10/2025

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Introduction

MadeLabs is pleased to submit this Statement of Work to Vessel Vanguard in response to a request from Brian Hagan. This Statement of Work describes the activities to be performed to design and develop an iPad application that mirrors the web application functionality (excluding internal admin features) of VV 360. The application will be built and tested for iOS iPad specifically, but will be architected in a way that allows future cross-platform support for Android tablets with limited new work needed. The application will leverage existing AWS cloud services and architecture as well as the current API.

This is an estimate, and though we do our due diligence in estimating software development it is notoriously fluid based on changes in scope as new opportunities present themselves.

Key assumptions:

- Team size: 2.5 full time developers
- Technology: React Native for iPad
- Backend: Existing AWS Amplify GraphQL API (no or limited backend changes required)
- Authentication: Existing AWS Cognito integration with new implementation for iPad
- Offline Capability: AWS Amplify DataStore for offline-first sync and conflict resolution
- Native Features: Camera, photo library, video recording
- Post Go-Live Support: 4-6 weeks of testing, bug fixes, and optimization at client discretion

Phasing Strategy

MadeLabs recommends a phased approach to launch a viable iPad application to the market as soon as possible to begin satisfying existing customers, enticing new leads, and demonstrating a commitment and execution of progress rather than waiting for all possible features to be complete as such:

Phase 1: Core Maintenance Operations - including vessels, fleet view, vessel dashboard and profile views, maintenance tasks, checklists, logs, documents and media.

Phase 2: Enhanced Operations - including equipment, inventory, work orders, contacts and crew, and messaging.

Phase 3: Complete Web Parity - including SMS, test results, in-app notifications and alert management, user profile management, reporting, and existing dynamic form operations.

Post-Launch: Testing and Optimization

Activities and Deliverables

During this focused engagement, MadeLabs will work closely with Vessel Vanguard to ensure that all work and deliverables are provided in a timely manner in accordance with this agreement as outlined below.

MadeLabs will provide architecture, engineering, dev-ops, project management and UI/UX design services as part of this engagement.

Scope of Work

Included features:

- Vessel and fleet views
- Maintenance task tracking and completion
- Equipment and component management
- Checklists
- Inventory management with barcode scanning
- Safety management system and deficiency tracking
- Documents and media management
- Logs
- Work orders
- Contact management
- Messaging and notifications
- User profiles and settings
- Reporting

Excluded features:

- Any functionality used by admin-only Vessel Vanguard staff, examples being:
 - Template management
 - Vessel setup wizard
 - Organization onboarding
 - Etc.
- Form builder authoring (viewing and completing forms is included)

Phase 1

Activities & Scope

Foundation and Infrastructure:

- Configure React Native development environment and Expo account
- Integrate AWS Amplify services (authentication, data sync, storage)
- Implement user authentication for iPad
- Set up offline-first data synchronization
- Establish navigation framework and UI design components
- Configure error tracking and monitoring (Sentry)

Vessel Management

- Build vessel selection and fleet view
- Create dashboard with key operational metrics
- Implement vessel profile viewing

Maintenance Operations

- Development maintenance task list (upcoming, overdue, completed)
- Build task completion workflow with digital signatures
- Enable task rescheduling and deferral
- Integrate photo/video capture for documentation
- Implement offline task operations

Checklists

- Create checklist viewing and completion interface
- Support all checklist types (one-time, recurring, pre-trip, post-trip)
- Enable task-level completion tracking
- Add photo/video documentation capability
- Implement digital signatures for checklist completion

Logging & Documentation

- Build log entry creation for all types (cruising, fuel, water, oil, coolant)
- Capture environmental data (weather, sea state, navigation)
- Enable marina and dock information recording
- Support photo/video documentation

Documents & Media

- Create document viewing with folder navigation
- Enable photo and video capture with upload

- Implement PDF viewing
- Set up offline media queue for delayed uploads

Deliverables

1. Functional iPad application deployable to TestFlight and eventually App Store
2. Users can perform maintenance and vessel operations online/offline
3. Native camera integration for photos and videos
4. Digital signature capability
5. Automatic data synchronization to/from existing API
6. Weekly progress reports
7. Bi-weekly visual demonstrations and feedback sessions
8. Technical documentation of Application Phase 1

Phase 2:

Activities & Scope

Equipment Management

- Build equipment list with system hierarchy
- Create equipment detail views with specifications
- Implement QR code scanning for equipment lookup
- Enable equipment photo documentation
- Link equipment to maintenance tasks

Inventory Management

- Develop inventory viewing and updates
- Implement location hierarchy navigation
- Add barcode scanning for parts
- Create low stock alerts
- Support quantity adjustments and expiration tracking

Work Orders

- Build work order list and detail views
- Enable work order creation and status updates
- Implement task linking
- Add photo/video documentation
- Support digital signatures for completion
- Track costs (estimated and actual)

Contacts & Crew

- Create contact management interface
- Support all contact types
- Enable profile photo uploads
- Implement contact search and filtering
- Flag emergency contacts

Messaging System

- Build conversation list and message threads
- Enable message composition with media attachments
- Implement push notifications for new messages
- Support deep linking to vessel resources
- Enable offline message composition

Deliverables

- Enhanced iPad Application with extended operations
- Equipment and inventory management
- Work order tracking and creation
- Team messaging and collaboration
- Barcode/QR code scanning
- Weekly progress reports
- Bi-weekly visual demonstrations and feedback sessions
- Technical documentation of Application Phase 2

Phase 3

Activities & Scope

Safety Management System (SMS)

- Build safety management system interface
- Implement correction report workflows
- Support multi-step approval chains
- Enable photo/video evidence capture
- Link corrective actions to tasks

Test Results Management (Confirm with Brian if out of scope)

- Create test results tracking
- Enable lab report uploads
- Support test history and trends

- Implement severity assessment

Notifications & Alerts

- Build notification center
- Configure notification preferences
- Set up push notifications across all features
- Implement deep linking from notifications through app-links

User Profile & Settings

- Create profile management interface
- Enable signature setup and capture
- Configure app preferences
- Support multi-vessel assignments

Reporting & Export

- *Further discussion needed before engaging in this area but including time for it*
- Generate PDF reports on device
- Enable report sharing (email, AirDrop)
- Create report history viewing

Form Builder Responses

- Render dynamic forms to be filled out (does not include authoring the dynamic forms)
- Enable form validation
- Allow form completion

Deliverables

- Complete iPad Application with full feature parity
- Safety Management System
- Comprehensive reporting with PDF export
- Push notifications across all features
- Custom form completion
- Weekly progress reports
- Bi-weekly visual demonstrations and feedback sessions
- Technical documentation of Application Phase 3

Roles and Responsibilities

Vessel Vanguard Responsibilities

Vessel Vanguard shall afford MadeLabs access to the necessary staff at various times throughout this engagement to allow MadeLabs to fulfill the commitment of the services specified. MadeLabs will make every reasonable effort to limit the demands on Vessel Vanguard personnel's time.

Obligations:

- Assign a primary point of contact from Vessel Vanguard to manage the engagement (currently, this is Brian Hagan).
- Notify MadeLabs of any changes to key personnel from Vessel Vanguard who are responsible for the engagement.
- Provide appropriate access to systems, networks, tools, or personnel to fulfill the commitment of services specified.
- Ensure timely review and feedback of all deliverables provided by MadeLabs to fulfill the commitment of services specified.

Mutual Responsibilities

In support of the success of this engagement:

- Both parties will conduct meetings at mutually agreed upon times.
- Support and provide sufficient representation at these meetings to move the work and deliverables forward.
- Collaborate to adjust the schedule in the event of a newly discovered requirement, change, or significant technical discovery.
- Meet periodically throughout this engagement, either in person or through electronic means, to ensure expectations are being met, resolve any issues, and plan for the next phase of development.

MadeLabs Responsibilities

- Provide qualified resources to complete the upgrades and development and provide recommendations on the current state of development and future iterations.
- Perform the duties as outlined in the Activities and Deliverables.
- Provide, at minimum, weekly progress updates in addition to ad-hoc discussions regarding work.

Estimated Schedule

Activity	Date
Phase 1 (6-8 weeks)	Dec. 1, 2025
Phase 2 (4-6 weeks)	TBD
Phase 3 (3-4 weeks)	TBD
Final Testing (4-6 weeks)	TBD

Location

MadeLabs will conduct all work remotely.

Fees and Expenses

This engagement is based on **time and material for an estimated 17-24 weeks**. MadeLabs resources will be used to leverage various skill sets based on the agreed-upon scope at a discounted rate of \$115/hour. The total estimate ranges between \$195,000 to \$276,000.

Any change in scope will be discussed beforehand and agreed upon by all parties. *Scope can be reduced to directly reduce cost.* These estimates are based on the feature set currently available in VV 360. New features and functionality added to VV 360 may increase the scope above. Any changes that will increase the scope or timeline will be approved by Vessel Vanguard prior to conducting work if not already specified in this document.

Vessel Vanguard will be invoiced each month for work conducted during that month and shall pay within 30 days of invoice.

Signatures

Agreement

MadeLabs and Vessel Vanguard agree to the Statement of Work outlined above and the associated costs.

Accepted By:

Madelabs LLC

Vessel Vanguard

By:

By:

Print Name:

Print Name:

Brian Hagan

Title:

Title:

CEO

Date:

Date:
