

# Ryans Mobile App Development Project

## Project Description

The Ryans Mobile App Development Project is aimed at creating a digital solution to improve construction site safety. My project will develop a mobile application (for both iOS and Android) along with a web dashboard to manage tailgate meetings, field hazard assessments, safety inspections, and audits. The solution will streamline safety communications, reduce errors from manual record-keeping, and ensure regulatory compliance.

The purpose of my project is to enhance on-site safety by digitizing safety documentation and communication processes. The business need arises from the current reliance on paper-based methods, which contribute to inefficiencies, increased administrative costs, and higher risks of safety incidents. By developing this solution, the organization will reduce accidents, improve compliance, and ultimately generate long-term operational savings.

## Project Objective & Deliverables

Develop and deploy the Ryans Mobile App and accompanying web dashboard to improve construction safety management by July 1, 2025.

### Objectives:

#### 1. Mobile App Development:

1. Create a fully functional mobile application (iOS and Android) that enables safety meeting management, hazard assessments, and inspections.
2. *Measurement:* Application must pass quality assurance and achieve a user acceptance rate of at least 90% during the pilot phase.
3. *Timeline:* Complete by July 1, 2025.

#### 2. Web Dashboard Integration:

1. Develop a secure web-based dashboard for supervisors to review, print, and manage safety reports.
2. *Measurement:* Dashboard functionality confirmed through stakeholder sign-off and integration tests.
3. *Timeline:* Complete by June 25, 2025.

#### 3. User Training & Adoption:

1. Provide comprehensive training sessions and in-app tutorials to ensure effective use of the application.
2. *Measurement:* At least 90% of end users proficient within one month of deployment.
3. *Timeline:* Training completed by pilot deployment.

### Deliverables:

- **Deliverable 1:** Functional mobile application for iOS and Android with key safety management features.
- **Deliverable 2:** Integrated web dashboard for report management and analysis.
- **Deliverable 3:** User training sessions, tutorials, and comprehensive documentation to support application adoption.

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## Scope Requirements & Constraints

### What will the project deliver?

- A fully developed and tested mobile app and web dashboard.
- Complete documentation including training materials and user guides.
- A post-deployment support plan for the first 60 days.

### What will the project exclude and why?

- **Excluded Items:**
  - Development of hardware devices or external sensor integrations.
  - Customizations for industries other than construction.
  - Long-term support beyond the initial 60 days.
- **Rationale:** Focusing on core safety management functionality allows for timely delivery within budget and ensures clear deliverables for the construction industry.

### What is the result after deliverables are met?

- A streamlined digital solution that improves safety communications, reduces administrative overhead, and increases regulatory compliance, resulting in fewer onsite incidents and long-term cost savings.

### Key Stakeholders

<b>Customer or Client</b>	<b>Construction companies seeking enhanced safety management solutions.</b>
<b>Project Sponsor</b>	Ross Michael, Director of Construction Safety.
<b>Project Manager</b>	Ryan Joseph , Senior IT Project Manager.
<b>Project team members</b>	Mobile developers, web developers, QA testers, user training specialists, and IT support personnel.

### Project Milestones

	<i>Description</i>	<i>Date 00/00/0000</i>
<i>Project Start</i>	Onboarding	02/10/2025
<i>Milestone 1</i>	Requirements Completion	03/01/2025
<i>Milestone 2</i>	Design Approval	03/20/2025
<i>Milestone 3</i>	Core Development Complete	05/01/2025
<i>Project Completion</i>	Official Launch	07/01/2025

### Project Budget or Cost Benefit Analysis

**Estimated Total Cost: \$150,000**

- **Application Development:** \$70,000
- **Web Dashboard Development:** \$30,000
- **Testing and QA:** \$20,000
- **User Training and Documentation:** \$10,000
- **Project Management and Overheads:** \$20,000

### Return on Investment:

My project is expected to reduce safety incidents and administrative overhead, leading to lower operational costs and improved compliance. The enhanced efficiency and reduced risk of onsite accidents will provide a measurable return on investment through decreased downtime and avoidance of regulatory fines.

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**Project Risks**

<i>Project Risks</i>	<b><i>Identify any potential risks of this project</i></b>
<i>Risk #1</i>	<b>Scope Creep:</b> Unauthorized feature requests may extend the timeline and increase costs.
<i>Risk #2</i>	<b>Development Delays:</b> Potential delays in development or testing phases could impact the project schedule.

**Approval Signatures**

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Customer or Client	Project Manager	Project Sponsor