Accessibility Requirements Specification
News Reader Mobile Application

1. Introduction

This specification outlines the accessibility requirements and success criteria for the News Reader mobile application to ensure equitable access for users with disabilities, in accordance with industry standards and guidelines.

2. Compliance Standards

- WCAG 2.2 Level AA
- Section 508 of the Rehabilitation Act (where applicable)
- Android Accessibility Guidelines
- iOS Human Interface Accessibility Guidelines

3. General Requirements

- All functionality must be operable through assistive technologies (e.g., screen readers such as TalkBack and VoiceOver).
- Information and UI controls must be perceivable, understandable, and operable by a wide range of users.

4. Success Criteria Overview

Requirement	Success Criteria
Text Alternatives	All images, icons, and non-text content have descriptive text alternatives.
Keyboard Navigation	All functions can be accessed and performed without gestures, using only keyboard or switch access.
Screen Reader Support	UI elements, labels, headings, and navigation regions are correctly announced and navigable by screen reader software.
Adjustable Text	Text scales according to system font size preferences without loss of content or functionality.
Contrast & Non-Reliance on Color	Information is not conveyed by color alone. Sufficient contrast is required between text and background.
Consistent Navigation	Navigation patterns and location of interactive elements are consistent across app screens.
Labels & Instructions	All form fields, controls, and buttons have clear labels and instructions, where necessary.

5. Functional Requirements

1. **Read News Articles**
   - Articles and headlines are accessible via screen reader navigation.
   - Images within articles have alternative descriptions.

2. **Navigation**
   - Tab order follows visual order.
   - Skip to content/landmark regions where applicable.

3. **Settings & Personalization**
   - Accessibility settings (e.g., dark mode, text resizing) are operable and persist across sessions.

4. **Multi-language Support**

- Application language is programmatically set for screen readers.

6. Non-Functional Requirements

- Loading indicators and error messages are accessible and descriptive.
- Animations and motion effects can be reduced or disabled following OS settings.
- App does not cause flashing or blinking that may provoke seizures.

7. Testing & Validation

- Manual testing using VoiceOver and TalkBack
- Automated linting tools for accessibility
- User testing with people with disabilities
- Conformance review prior to release

8. Revision History

Version	Date	Changes
0.1	2024-06-03	Initial draft