

FUNCTIONAL AND SECURITY REQUIREMENTS FOR MOBILE APPLICATION

1. **Data Integrity:** Ensure that each data is recorded as intended and cannot be tampered with in any manner, once recorded (i.e., data should not be modified, forgotten or deleted without detection).
2. **Availability:** Ensure that app is protected against accidental and malicious denial of service attacks. Also, setup redundant communication paths so that availability is ensured.
3. **Simplicity:** The app shall be designed to be extremely simple, as complexity is the enemy of security.
4. **Testing and Certification:** The app should be tested by experts with respect to all of the security considerations, so that election officials have the confidence that the system meets the necessary criteria.
5. **System Accountability:** Ensure that app's operations are logged and audited.
6. **Platforms:** Mobile application should be developed both for IOS and Android platforms.
7. **Types:** The app should be native or hybrid. Please advise which is the optimal for your solution.
8. **Hardware:** The application should be suitable for smartphone and tablet.
9. **Connectivity:** The application should be tested for data connectivity – 2G, 3G, LTE, WiFi.
10. **Storage:** There should be an opportunity for store data both in local server and in cloud.
11. **Integration:** Application should have the opportunity of integration with other softwares via standard connections (such as FIX protocol or web-service).
12. **Authenticity:** Ensure that the user must identify himself (with respect to the registration database) to be entitled to get the required information (Two-factor authentication).
13. **User-Interface:** The app shall provide an easy-to-use user-interface.
14. **Content:** The admin should have rights to change UI data.
15. **Design:** UI design tools should be available for change by admin (colors, logo, etc.).
16. **Orientation:** The app should work both with portrait and landscape orientations.
17. **Store:** The app should be complying with Apple app store and Google play market requirements.
18. **Language:** The app should be multilingual (minimum 2 languages: Armenian and English) and tools for adding the languages.
19. **Interruption:** The application should auto save its information in case of interrupting events (such as incoming call, Low battery, etc.)
20. **Notification:** Event notification opportunity.
21. **Security:** All ISO security protocols should be ensured.