Specification/ ToRs

Title of work: ASER Pakistan 2023

Location: Across Pakistan (151 districts with good access to Internet)

Duration: 6 months (2023)

Implemented by: Idara-e-Taleem-o-Aagahi (ITA)

Supported by: UNICEF

ASER - The Annual Status of Education Report is the largest citizen led; household-based initiative that aims to fill a gap in learning outcomes and provide reliable estimates on the schooling status of children aged 5-16 years residing in the rural districts of Pakistan. By using an innovative citizen driven approach, ASER Pakistan intends to mobilize policy makers as well as ordinary citizens/parents, students, local communities and the public at large – to become aware of actual levels of children's literacy and numeracy, and build on that awareness to stimulate practical community and policy change across Pakistan. The survey's stated objectives are three-fold:

- To get reliable estimates of the status of children's schooling and basic learning (reading and arithmetic level) at the district level.
- To measure the change in these basic learning and school statistics from last year.
- To interpret these results and use them to affect policy decisions at various levels.

As part of the push to enshrine accountability, knowledge sharing, efficiency and trust-building, ITA aims to adopt next generation platform by translating ASER pen and paper tools to a webbased/mobile open platform. The proposed ASER mobile application will not only provide instant information regarding the data collected but also will allow GPS tracking.

OBJECTIVES OF THE ASSIGNMENT:

- Work with ITA's IT department to build an application that can be used across Pakistan.
- The primary objective of the assignment is to design and develop the Android, iOS applications for phones and tablets for internal and external/public use. The designed survey tool should work online and offline either, so if the internet is not available the stored data on App can be synched on online server.
- Develop a Business Intelligence dashboard to monitor and track the activities of enumerators, apply data validation checks, Assessments and generate reports.
- Follow the basic protocols of the survey as described by the ASER Research Team.
- Pre-testing of the application developed and removing the problems later identified to ensure compliance. We recommend the Agile methodology for achieving the milestones
- Release/Launch the App on Google Play and Apple App Store.
- Post release monitor application performance, assist in analysis, gather feedback, re- Page 7 of 10 design, release and manage the life cycle of the mobile applications.
- Frequent Knowledge sharing with the team members and colleagues on the development.
- Produce monthly reports for mobile application performance and recommendations for improvements and updates.

- Streamline the historical ASER data and make it presentable on the Business Intelligence tool. Make historical data synchronous for longitudinal comparison.
- Self-driven application with all the ASER tools.
- Will maintain records of all the students who have been registered and it will encourage the parents and teachers to assess the children's progress.

TIMELINE ACCORDING TO MILESTONES

Milestones	Description	Time Required
M1	**Planning and Analysis**	
	A report for a mobile application and its workflows is a comprehensive document that outlines the initial phase of the development process. It should delineate a detailed overview of the proposed mobile application, including its objectives, scope, and key features. The report also describes the various workflows involved in the application, highlighting the sequence of activities and interactions between different components or users. Additionally, the inception report may include a project timeline, resource allocation plan, and an assessment of potential risks and challenges. It will serve as a foundation for the project, providing stakeholders with a clear understanding of the mobile application's concept, functionalities, and implementation strategy.	
M2	**Design or UI/UX**	1.5 Month
	It focuses on designing the layout, visual elements, and interactions within the application to ensure ease of use and engagement for the target audience. The Design document should include User Research, Information Architecture, Wireframing and Prototyping, Visual Design, Responsiveness, Interaction, Design, Usability Testing, Accessibility and other factors.	
M3	**Implementations**	8 Day
	The Developer should give a walkthrough of end-to-end workflows, front-end and back-end components of the developed application, webpage, business intelligence reports	
M4	**Pre-pilot test of the application or Testing and Integration**	15 Days
	In this process, we will be verifying and validating whether an application is bug-free meets the technical requirements as guided by its design and development, and meets the ITA requirements effectively and efficiently by handling all the exceptional and boundary cases.	
M5	Final launch & Maintenance	

QUALIFICATIONS EXPERIENCE REQUIRED

The ideal company should have strong experience in Mobile/Tab Application as well as Web Application Development, Hybrid and Native, flutter and Application life cycle management along with working experience with national/international organizations.