TECHNICAL SPECIFICATIONS

Project Title:	**Upgrading of STARBOOKS Mobile Apps Enhancing User Experience (UX) Design**
Duration:	**7 months**
Project Cost:	**Php 1,250,000.00**
Fund Source:	**STARBOOKS GAA**

SPECIFICATIONS:

The Service Provider shall:

- Develop two (2) STARBOOKS mobile app using an open source framework, preferably Xamarin forms with the following system requirements:
    - It must run online/offline on Android-Powered Devices (Smartphones/Tablets) with Android API level 19 and later installed and iOS-Powered Devices (Iphones/IPads) with iOS 9 and later installed

- Develop the *STARBOOKS GO!* app using Xamarin Forms with the following modules, functions, and security features:

    - Design and develop improved UI/UX for easier navigation and more optimized usage
    - Develop Android and IOS versions
    - Develop Own Integrated Video Player (MediaElement) or any better, PDF reader and image viewer with data caching feature for offline viewing. Use monkey-cache library or any better data caching library for this. (Developed from scratch specifically for STARBOOKS application use).
    - Develop pages for about us, Contact Us, and User's Feedback.
    - Develop search engine with fuzzy matching which can match nearest result (ranking) even the keyword is misspelled (see Full-text-search or SOUNDEX).
    - Develop push notification for announcement, new added content, etc.
    - Design and develop own backend Content Management System with UI (End-user able to update video/content of the STARBOOKS

DOST Complex, Gen. Santos Avenue, Bicutan
1631 Taguig City, Philippines
P.O. Box 3596 Manila
www.stii.dost.gov.ph

Tel. Nos.: +63 2 837 2071 to 82
Telefax : +63 2 837 2071 to 82 Local 2131

application)
- o Create on demand features of video/content (can download, stream, can save favorite content for later viewing)

- o Provide third-party One-Time Login authentication (Log-in using Google, Facebook, etc.)
- o Integrate a feedback system (Comments feedback on contents)
- o Integrate a rating system (Star Rating for content)
- o Improve and secure Login system
- o Security features: integrate system protection from SSL and DoS attacks

- Develop the *STARBOOKS Finder* app using Xamarin Forms with the following modules, functions, and security features:

  - o Design and develop improved UI/UX for easier navigation and more optimized usage
  - o Develop Android and IOS versions
  - o Display a map with institution detail, number of installed STARBOOKS by region, and the sum of all STARBOOKS installed of all region using google maps API.
  - o Integrate a rating system (Star Rating for the application)
  - o Security features: integrate system protection from SSL and DoS attacks

- Deliver/provide/perform the following documents/deliverables for the two upgraded STARBOOKS mobile applications:
  - System Requirements Specifications
  - System Design Specification
  - Design and development of the system
  - Code review
  - Test Plan and Test Cases Creation
  - Test Plan Review
  - Progress Review / monthly accomplishment report
  - Quality Assurance/Audit
  - Mobile App Admin Manual
  - Hands-on training
  - Technical Support during development and within 60 calendar days after turn-over and acceptance
  - Terminal report at the end of the project;

DOST-STII shall:

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- Provide point person for proper coordination and supervision of the project;

- Pay the provider in 4 (four) tranches after submission of required output within the development period.

Other Requirements:

- The Copyright of the *STARBOOKS GO!* and *STARBOOKS Finder* apps including all the assets used by the provider shall be 100% owned by DOST-STII.
- The development period will be seven months long.
- Upon completion and acceptance of the developed apps, all files, codes, and assets shall be turned over to DOST-STII.

**Technical Working Group
for IT**

ALFON B. NARQUITA
Chairperson, TWG

LLOYD FREDERICK R. MANDAPAT
Member

MA. HERSHEY B. CASTRO
Member