

##### AR LIBRARY BASED APP USING UNITY 3D

##### A PROJECT REPORT

###### ***Submitted by***

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**BONAFIDE CERTIFICATE**

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**ABSTRACT**

Augmented reality could be a relatively new field of technology, only in recent years, it has become so popular on account of recent development platforms. Augmented reality like most the established technologies will be utilized in every field of day-to-day life. The attraction of augmented reality is its simplicity; most AR applications are very easy to use with no difficulty. Here we propose an interactive library management system that may be used to make the library more appealing. This application will be created in two sections one section acts as a server that holds information about each book available in the library and the second section could be a mobile application that will access this database. This application should be installed on every library user’s phone. The phone camera is wont to see the AR interface within the library, phone application can scan different visual markers in numerous parts of the library. This scanning result will show the sort of books therein section of the library in detail, this can be more convenient compared to a note that may only give little information. This result also will contain a listing of all books available therein section. This application can reduce the complexity of managing a library by many folds.

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**LIST OF ABBREVATIONS**

**1.Beautiful UI**

Android OS basic screen provides a beautiful and intuitive user interface.

**2.Connectivity**

GSM/EDGE, IDEN, CDMA, EV-DO, UMTS, Bluetooth, Wi-Fi,LTE,NFC and WiMAX.

**3. Storage**

SQLite, a lightweight relational database, is used for data storage purposes.

**4. Media support**

H.263, H.264, MPEG-4 SP, AMR, AMR-WB, AAC, HE-AAC, AAC 5.1, MP3, MIDI, Ogg Vorbis, WAV, JPEG, PNG, GIF, and BMP.

5. **Multi-touch**

Android has native support for multi-touch which was initially made available in handsets such as the HTC Hero.

**6. Multi-tasking**

User can jump from one task to another and same time various application can run simultaneously.

**7. Multi-Language**

Supports single direction and bi-directional text.

**8. Android Beam**

A popular NFC-based technology that lets users instantly share, just by touching two NFC-enabled phones together.