



## Library Services through Mobile Technology

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Received 01<sup>st</sup> March 2021, Accepted 30<sup>th</sup> March 2021

### Abstract

*The basic aim of the paper is to show core competence of Mobile Library Services. The advancement of Information, Communication and Technology has brought a lot of changes. This paper discusses about Generations of Mobile, Mobile device used in Libraries, Mobile Library Services. Advantages and Disadvantage of Mobile Library.*

**Keywords:** Mobile Application, Library Services, Mobile device

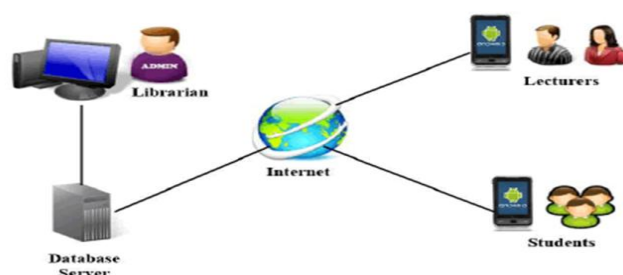
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### Introduction

Today Mobile Technology has made communication and information sharing effortless and timely to users and they can avail these services from the comfort of their libraries. Nowadays many Library Information Centres have digitized their collections to provide multiple and wide ranges of access through web mobile. It can be used as alternative for accessing digital collection. Mobile phone have become one of the major interfaces people use to accessing and sharing information.

### Definition

A mobile phone or mobile (also called cell phone and hand phone) is an electronic device used for mobile telecommunications (mobile telephone, textmessaging or data transmission) over a cellular network of specialized stations known as cell sites.



System Architecture of Mobile Library

### Features of Mobile:

- Internet Connectivity
- The ability to sync more than one email account to a device.
- Wireless synchronization with other devices, such as laptop or desktop computers.
- The ability to download applications and run them independently.
- Support for third-party applications.
- The ability to run multiple applications simultaneously.
- Touch screen.
- Wi-Fi.
- A digital camera, typically with video capability.
- Gaming.
- Unified messaging.
- GPS.

### Generations of Mobiles:

Mobile wireless industry has started its technology creation, revolution and evolution since early 1970s. In the past few decades, mobile wireless technologies have experienced 4 or 5 generations of technology revolution and evolution, namely from 1G to 5G.

### Mobile Devices Used In Libraries:

- PDAs (Personal Digital Assistant)
- Tablets
- I Pods and MP3 players
- Smart Phones
- The design of mobile
- Cell Phones

### Components:

- the users,
- the devices,

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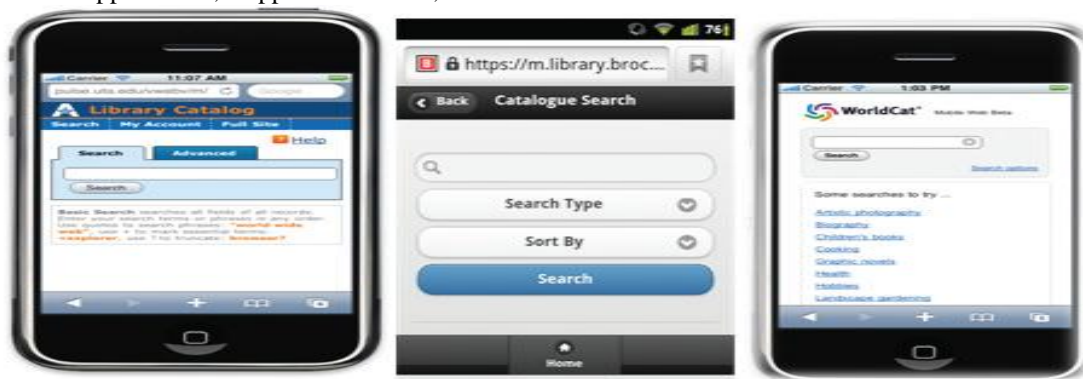
- the operating systems,
- the services,
- the content,

<b>Generations</b>	<b>Standards</b>	<b>Systems</b>	<b>Frequency</b>	<b>Transfer</b>	<b>Speed</b>
<b>1 G</b>	AMPS,TACS	Analog Cellular Telephony	Low Quality	Analog Voice	low
<b>2 G</b>	GSM,CDMA,EDGE,GPRS	Digital Mobile Communication	High Quality	Digital Voice	236.8 kbps
<b>3 G</b>	UTMS,CDMA2000, HSPDA, EVDO	Wideband Mobile Communication	Very High Quality	Digital Voice with data, Multimedia files	384kbps
<b>4 G</b>	ETE Advanced, IEEE 802.16 (WiMax)	Orthogonal Frequency Division Multiplexing (OFDM)	Very High Quality with Speedy Accession	Digital Voice, data and Multimedia	up to 1 Gbps
<b>5 G</b>	Single unified standard		Very High Quality with Speedy Accession	Unified IP and seamless combination of broadband (WWW)	1 Gbps and higher

### Mobile Library Services:

**Libraries can provide a wide array of mobile services to interested users:**

- 1. Library applications for Mobile phones:**  
Mobile applications, apps for short, are



dedicated pieces of software or web applications/site that enhance mobile devices capabilities and access information in an elegant, consistent ways, and are the means for creating new services for mobile patrons.

registration.

### 2. Mobile OPACs :

The Mobile OPAC Services will bring libraries one step ahead in the wireless information Technology world in meeting their patrons needs and providing quality resources. M-OPAC is a most important device now a day. Through this device the library users can search library data or collection any time anywhere. In M-OPAC device whatever data is available in library that all data we can see in one place. The library users can see the books, Journals and other library material in these devices and spouse they want the particular document they sent the request for the particular document. For access the M-OPAC the users should have

### 3. Alerting Services :Library Short messaging service(SMS)

Mobile Library provide alerting services to users mobile using social networking sites like whatsapp, hike, telegram, video message service. That enable library to deliver the content, alert new arrivals in Library, alert for meetings, various library Programs, Activities, alerts the books of overdue.

#### Libraries can use SMS services, e.g.:

- SMS if requested book is available (collect messages)
- SMS reminder if a book is due
- Requesting a list of loans via SMS

- Renewing books via SMS
- Requesting an overview of outstanding fines via SMS
- Checking the availability of books via SMS
- Requesting the opening hours of the library via SMS



- 4. Mobile Databases:** databases can be created which compatible for Mobile phones. For ex. PubMed for Handhelds is a mobile web portal for the National Library of Medicine.
- 5. Quick response Codes:** Libraries need to market their services. A Quick Response code is an alternate terminology for a “Quick Responses” or “2D” barcode that can be read by downloadable smart phone readers with camera – scanning capabilities. Libraries can enhance their own offerings to users with greater potential and possibilities. QR is good tool where library can market their services such as ; search, ask us, hour and locations, computer availability, video tutorials and social media using this code. User will take a picture of the code and then user can access any library services they want.



- 6. Mobile Collection:** libraries can also offer their patrons digital media collections that they can take to go, enabling them to benefit from library services remotely. These can include audio book collections, e- books, and video and music files.
- 7. Reference service :** Many times the researcher enquire for reference questions, they want some definitions, abstract services or useful reference sources now widely available as mobile reference tools for stakeholders.
- 8. Library Websites:** Information communication technology has revolutionized our society in a great manner. Libraries are required to redesign their web pages as mobile optimized interactive and participative library website to provide

dynamic information services to users on a 24x7 basis via mobile devices like mobile Smartphone.

- 9. Current Awareness Service:** Current Awareness Service is a form of service can be from different new latest e-journals articles. It can be made available to the users through wide range of mobile devices. They can access and search the same over their mobiles.
- 10. Mobile Circulation:** Circulation work is a repetitive and time consuming work in any library. Circulation work can be done easily with the help of a bar code or QR code scanner through a mobile library app. Many mobile apps also come into existence which provides such circulation work through mobile.

#### Advantages of Mobile Library Services:

1. User Friendly
2. 24\* 7 Access
3. Location Awareness
4. Time Saving
5. Personalized Service
6. Limitless Access
7. User Participation

#### Disadvantages of Mobile Library Services:

1. Limited /lacking contents
2. Copyright and piracy issues.
3. Lack of user awareness about mobile library services
4. Mobile Network Problem.
5. Slow Speed and Computational Speed, Less bandwidth speed
6. Limited memory of mobile devices
7. Limited computational power

#### Conclusion:

The main purpose of the library Centres is to provide quality services to satisfy users with the right information at the right time. It's a necessity of time for the library to upgrade with new technologies. New

technology like mobile app provides easy, fast and suitable information related library to users.

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Please cite this article as: Ms Heena Bavaskar & Rohini Kadam (2021). Library Services through Mobile Technology . International Journal of Recent Research and Applied Studies, 8, 3(14), 73-76.