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KLIB: A new mobile app for reserving and managing library seats and facilities at Korea University

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Mobile



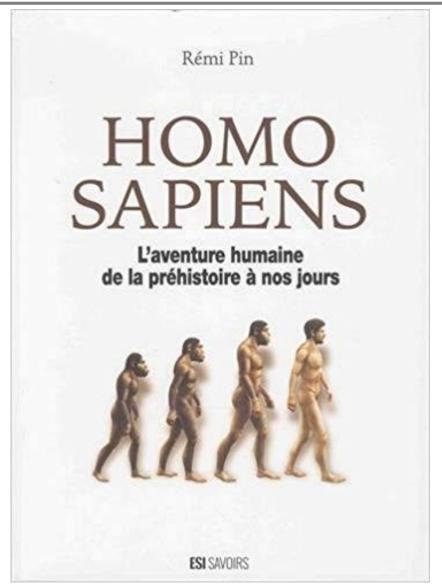
Mobile



Mobile



Homo sapiens



Phono sapiens

Nomophobia is the fear of being out of mobile phone contact. The term, an abbreviation for "no-mobile-phone phobia".

diduknow-facts.com

Image source : blog.doubleslash.de

(Source: http://diduknow-facts.com/nomophobia/)



Planet



Planet of the phones



Mobile networks and devices



(Source: http://info-graphics.kr/?p=2859)







(Source: http://blog.nskinc.com/it-services-boston/topic/mobile-device-management)

Mobile media in daily life





(Source: http://www.talkandroid.com/235039-samsungsmilk-music-service-now-accessible-through-the-galaxy-tab-4-and-note-tablets/)



(Source: http://www.honestech.com/main/nScreen Deluxe.asp)

(Source: http://telecomblogs.in/wpcontent/uploads/2013/06/Idea-Facebook-Messenger.jpg)





(Source: http://blogsimages.forbes.com/stevefaktor/files/2013/0 3/mobile-payments-safe1.jpeg)



(Source: http://crackberry.com/foursquareblackberry-v1-8-2-now-available)

(Source: http://planetivy.com/gaming/2590/could-mobile-gaming-bekilling-off-consoles/)

Mobile users



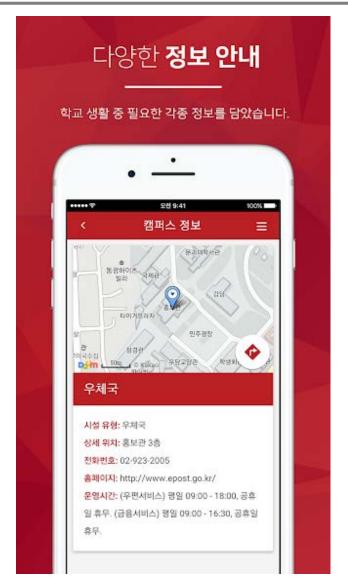
(Source: http://www.toonpool.com/user/250/files/the_mo bile_office_19575.jpg)

Korea as mobile power house

- Land: 0.1 Million Km² (U.S.A.: 9.83 Million km²)
- Population: 51.8 Million (U.S.A.: 308 Million)
- 11th largest economy in the world
- Broadband Internet speed: World No.1
- High speed Internet subscribers: 17.2 Million Households (99%)
- 4G LTE mobile phone subscribers: 53.4 Million (more than 100%)
- Smartphone users: 50.1 Million (97%)

Mobile app used by Korea Univ. students





Then, why not mobile app for library?



for



Why a mobile app for library

- Change from collection to service
- User first

New wine (new goal)

New bottle (new tool)



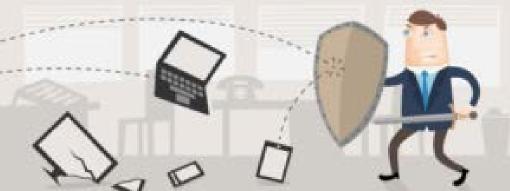
(Source: http://www.thegreenhead.com/201 5/01/wine2go-foldable-winebottle-flask.php)

- Space renovation: CJ Creator Library
- Mobile technologies replace outdated kiosks

Any hurdle? Resistance to change



(Source: http://rachaelseda.com/post/927363235/resistance-to-change)



What is KLIB?



It is a mobile application for KU Library users with smartphone

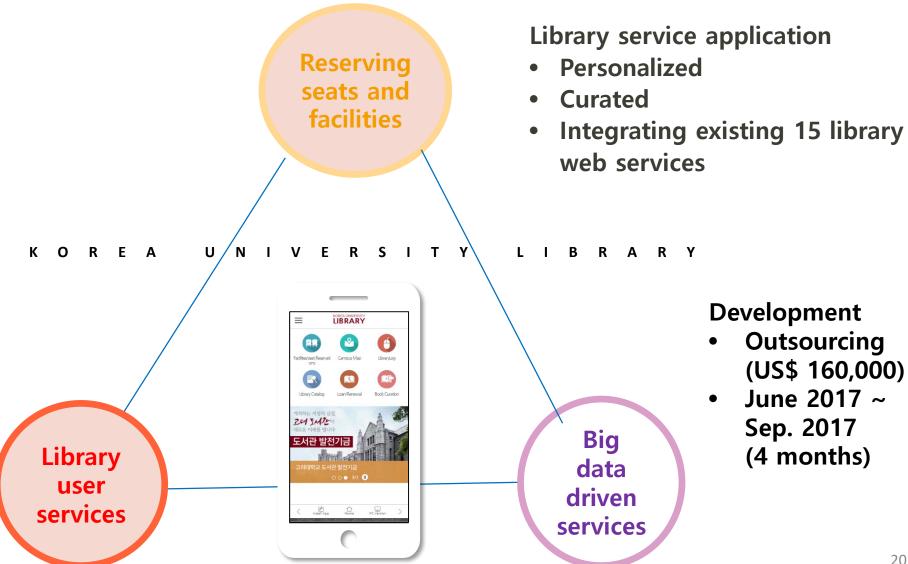




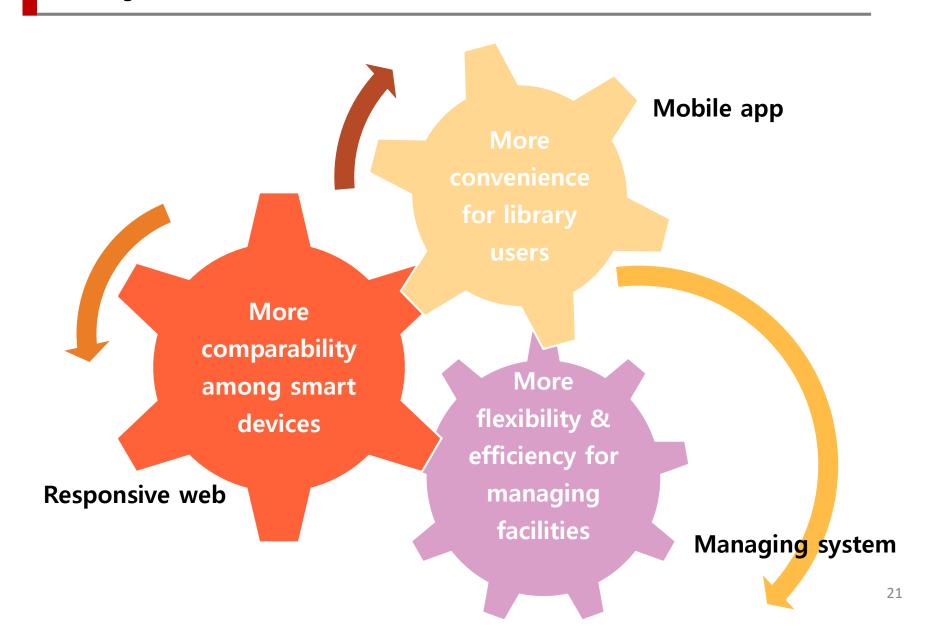
It is a responsive web page for KU Library users with tablet PC

Let's watch KLIP video

What is KLIB?

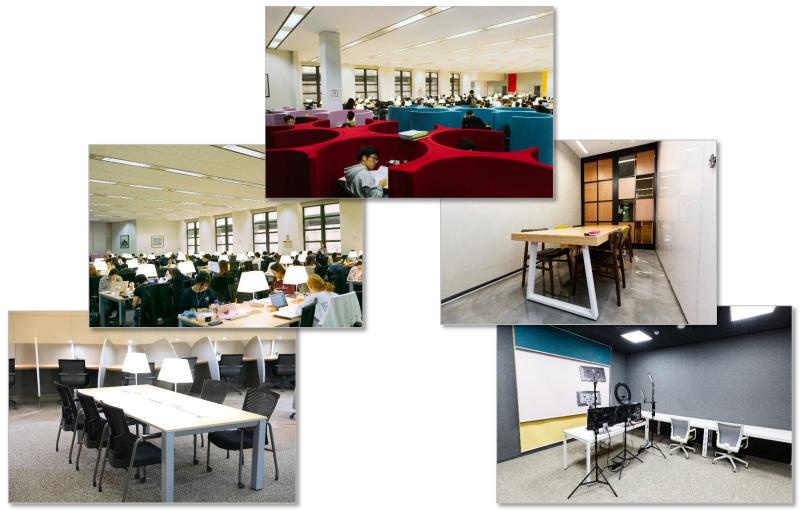


Why KLIB?



Reservations - Library seats and facilities

- 5,000 seats in 6 branches
- 70 facilities: group study rooms, studios and conferences rooms



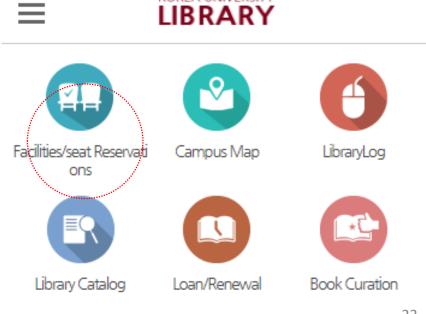
Reservations - Library seats

- Seat assignment at kiosk
- Seat QR code (iOS), NFC (Android) authentication

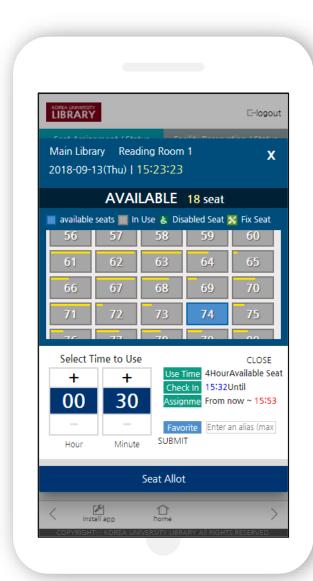
- App/Web reservation
- Automatic authentication through communication by beacons







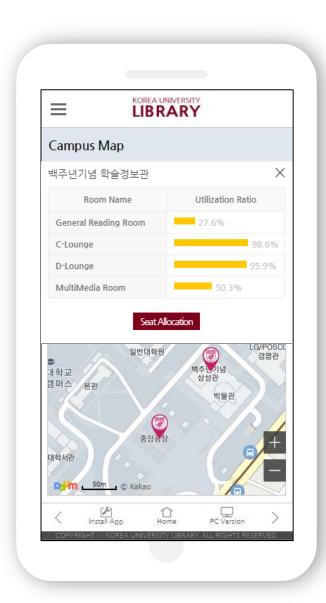
Reservations - Library seats



- App or web reservation
- Selecting library
- Selecting room
- Selecting seat
- Selecting time to use
- Authentication (beacon)

 Design of app icons reflect the characteristics of each room and seat

Reservations - Library seats



- See campus map based on user's location
- Check real-time usage statistics on near rooms and seats



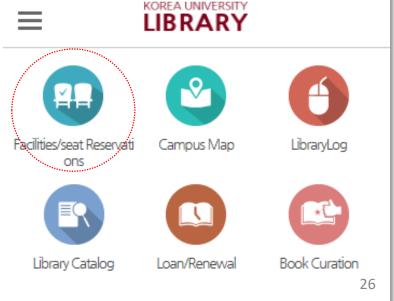
Reservations - Library facilities

- Web reservation
- Personal authentication at the desk
- Check-out at the desk

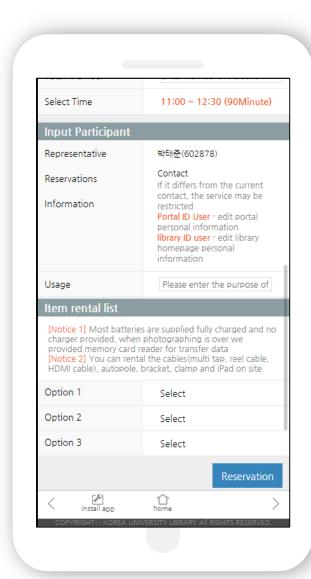


- App/Web reservation
- Automatic authentication through communication by beacons



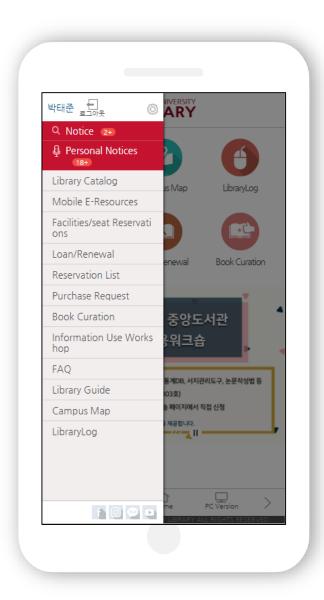


Reservations - Library facilities



- Selecting the date
- Selecting library
- Selecting facility
- Confirming current reservation status and availability
- Selecting facility and putting time to use
- Authentication (beacon)
- Design of app icons reflect the characteristics of each facility
- Special requirements: Notebook computer, beam projector, TV, studio equipment

Library user services



- Personalized services
 - Searching library catalog (collections an data)
 - Using mobile electronic resources
 - Loan, renewal
 - Reservation list
 - Purchase request

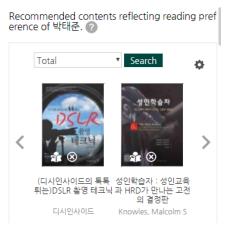


Big data driven services

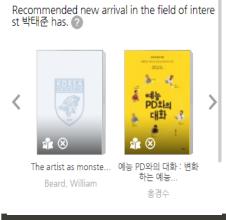
Book curation service using big data

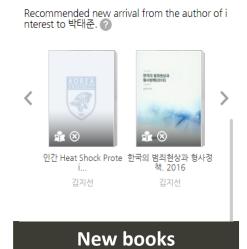


Personalized recommendation based on 10-year loan data



Recommended books





on favorite authors

New books on favorite topics

Big data driven services

LibraryLog service using big data



- Usage statistics
 - Loan/seat assignment/facility reservation/workshop/library visit/home page visit/ILL, DDS
 - Statistics on 7 services
- My KLIB Usage
 - Library usage index
 - Relative evaluation score



KLIB usages

Changes after KLIP (5 months' statistics)



- Most users are freshmen and sophomores
- High usages among engineering and science students
- The percentage of app access is growing fast

KLIB usages

	# of app downloads	# of app access	# of using facilities
2017-09	5,357	17,373	4,260
2017-10	7,708	90,415	45,064
2017-11	2,320	90,301	49,347
2017-12	2,452	119,975	62,180
2018-01	1,385	60,288	29,098
2018-02	1,595	43,051	20,182
2018-03	4,176	103,847	47,754
2018-04	3,656	186,106	88,099
2018-05	1,358	171,698	59,499
2018-06	1,499	302,897	78,287
2018-07	1,039	109,235	29,702
2018-08	1,185	94,122	25,435
2018-09	970	58,703	17,392
합계	34,700	1,448,011	556,299 32

KLIB usages

Profile	% of app access	Percentage
Undergraduate students	1,208,852	83.5
Graduate students	214,678	14.8
Faculties/staffs	17,206	1.2
Others	7,275	0.5
	1,448,011	

So what? A few important questions

- Should university library go mobile?
 - Yes
 - It's a matter of time
- Are there clear value propositions for university library to go mobile?
 - Users: More convenience
 - Technology: More compatibility
 - Service managers (librarians): More flexibility and efficiency
- Then, how to go mobile?
 - Benchmark the case of KLIP at Korea University Library
 - Visit Korea University next year

Who we are: KOREA UNIVERSITY

- One of the Top 3 Universities in Korea (SKY club)
 - Seoul National University, Korea University, Yonsei University
 - Top private university in Korea
- #16 in QS-Asia University Ranking (2018 QS AUR)
 - Top private university in Asia
- #86 in QS-World University Ranking (2018 QS WUR)





Who we are: KOREA UNIV. LIBRARY

- Korea's Best Academic Library with tradition and future
 - The oldest academic library in Korea
 - Designated as the Seoul City Historical Relics No. 286
- Holds the most numerous academic materials
 - 3.5 millions books, 419,000 e-books, 70,000 e-journals, lots of digital collections etc.
- Provide high quality facilities and networked resources in 6 branch libraries and online libraries













See you in Seoul

- To be in Seoul or not to be is not the question
- You should come to PRRLA meeting in Seoul
- Please mark "September
 2019" on your calendar
- See you at KU next year
- Thank you

