

# HEBELEGUBELEGOM

## MOBILE LIBRARY



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# OUTLINE

- Problems – Solutions
- Differences
- Difficulties
- What have done up to date ?
- Technology used
- What will be done ?



# PROBLEMS - SOLUTIONS

- Lack of Mobile Application
  - Extend deadline of borrowed materials
  - Hold a materials
  - Search a material
  - Send a recommendation
  - Follow Announcements
  - ...
- Pay debts by paypal or directly
- Location of materials



## ○ Libraries

- Barcode reader (zxing)
- Data transfer( json, curl)

## ○ GUI features

## ○ METU library users

- Students
- Staff
- Guests



## ○ User Features

- Login
- Pay debt
- Read announcements
- Send a recommendation
- Check availability of carells



## ○ Material Features

- Read a summary of the book
- Borrow an material
- Hold a material
- Search a material
- Extend dateline
- Find location of the material



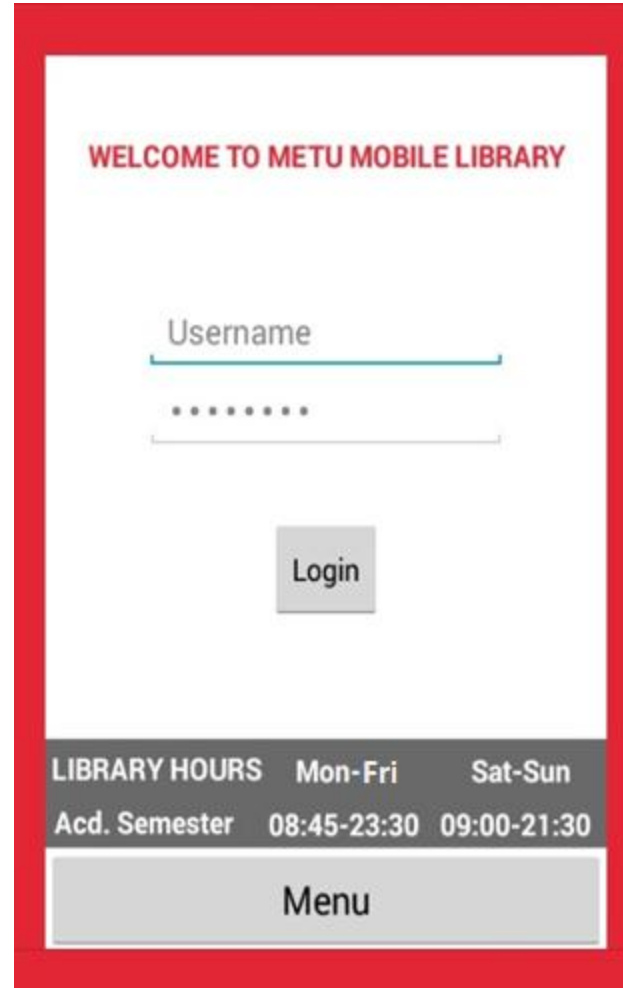
# DIFFERENCES

- Borrow a material

- Barcode Reader

- Pay Debts

- By Paypal
- By Credit card



The image shows a mobile application interface for the METU Mobile Library. It features a red border and a white background. At the top, it says "WELCOME TO METU MOBILE LIBRARY". Below this, there are two input fields: one for "Username" and another for a password, represented by dots. A "Login" button is positioned below the password field. At the bottom, there is a section for "LIBRARY HOURS" with a table showing hours for "Mon-Fri" and "Sat-Sun" across "Acad. Semester". A "Menu" button is located at the very bottom.

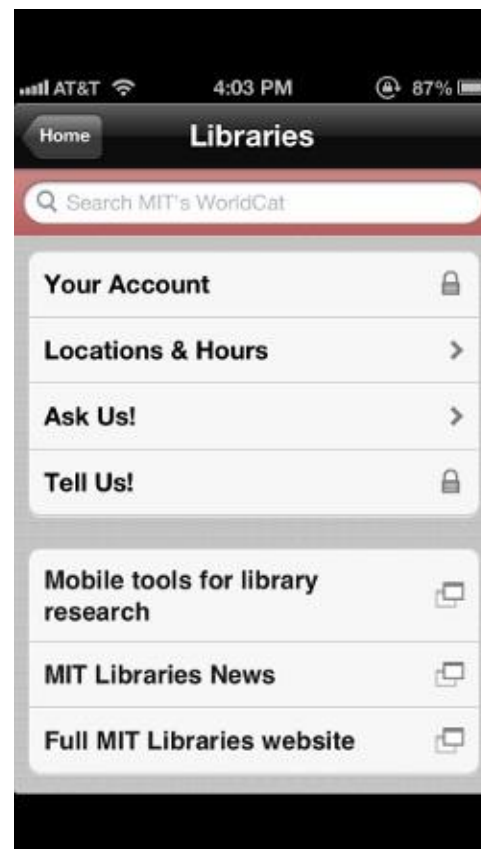
LIBRARY HOURS	Mon-Fri	Sat-Sun
Acad. Semester	08:45-23:30	09:00-21:30



## LIBRARY OF THE CONGRESS



## MIT LIBRARY SERVICES



# DIFFICULTIES

- Account and Credit Card Security
  - Cryptology – Merke-Hellman Knapsack cryptosystem
  - Cryptology – RSA



- Database Connection
  - Json ,Curl Object
  - Millenium Company

- Location
  - Flash Player
  - Android GUI
  - Unity





# OUTLINE

- Problems – Solutions
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# WHAT WE HAVE DONE



## ○ User Features

- Login ✓
- Search ✓
- Read announcements ✓
- Send a recommendation ✓
- Pay debt

## ○ Material Features


- Read a summary of the book ✓
- Find location of the material ✓
- Borrow a material ✓
- Check availability of carells ✓
- Hold on a material
- Extend deadline



# LOG<sub>IN</sub>

**WELCOME TO METU MOBILE LIBRARY**

e111111

 Validating user...

Login



LIBRARY HOURS

Mon-Sun

Sat-Sun

Acd. Semester 08:45-23:30- 09:00-21:30

Menu

title\_activity\_display\_message

Search Everything...

Search

Scan

Announcements


Search in detail

Payment

Recommendation

Log Out

# SEARCH

 title\_activity\_display\_message

Library Catalogue Search

Title

Title

Author










Subject

Keyword

Call Number

ISBN or ISSN

Search

 ListBookActivity	
	Algebra
	Beginning Android Games
	Beginning Android 4 application development
	Basic C++
	Be a successful green builder
	Beginner's Armenian
	B.R.A.S. Physics
	Basic AC circuits



# BOOK VIEWER



BookActivity



**Gezegenlerin gizemi  
/ Dava Sobel ;çev.  
Demet Evrenosoğlu.**

Location	Call Number
ML Book Collection	QB601 .S65 2008
Barcode	Status
255070201060903016	DUE 04-01-14

**ISBN :** 978-605-106-039-2

**Author :** Sobel, Dava.

**Subject :** Planets.

Solar system.

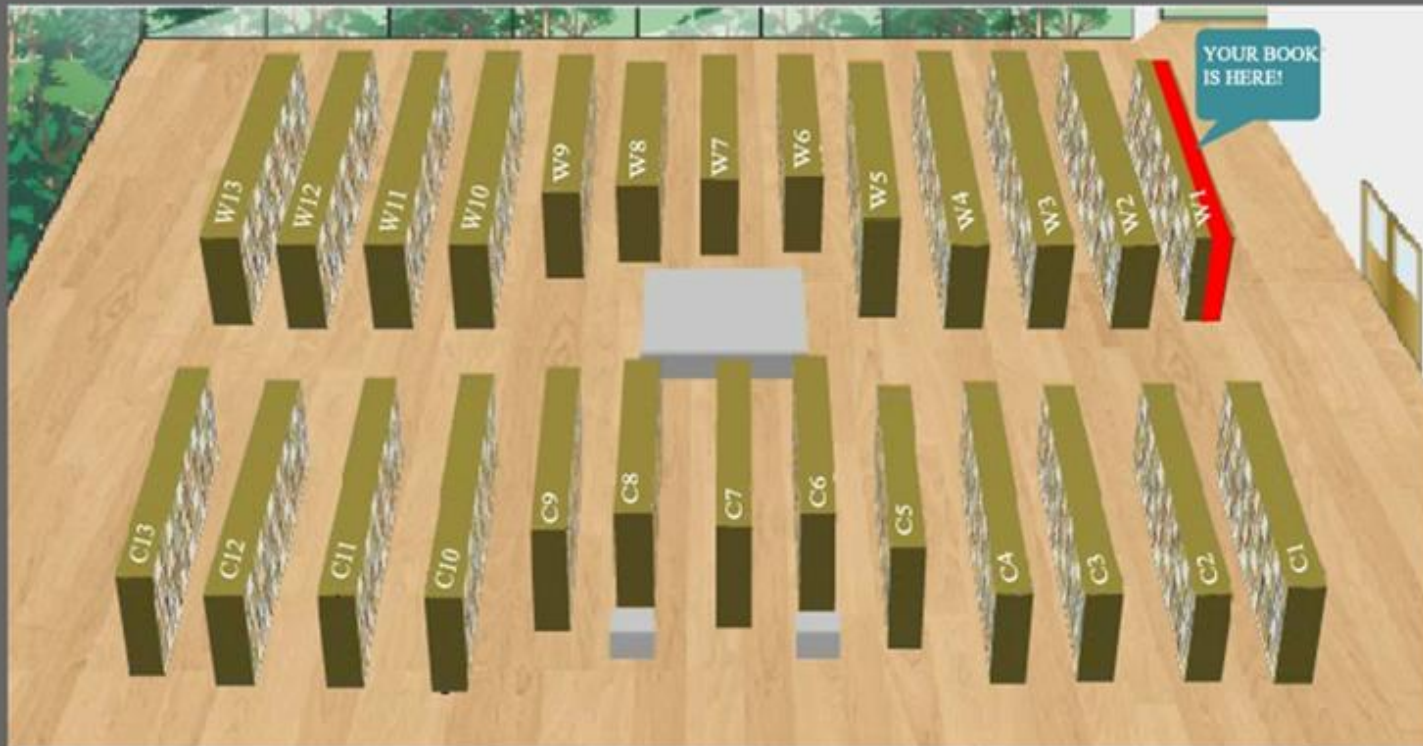
Location



# LOCATION VIEWER



LocationViewer



2ND FLOOR BLOCK - A



# CARELLS



Carells

## LIBRARY STUDY ROOMS STATUS MAP

### 1st FLOOR STUDY ROOMS

1



2



3



4



5



6



7



8



AVAILABLE DUE 30-12-13 11:22PM DUE 30-12-13 10:34PM AVAILABLE DUE 30-12-13 08:06PM DUE 30-12-13 09:38PM AVAILABLE AVAILABLE

### 2nd FLOOR STUDY ROOMS

9



10



11



12



13



14



15



16



DUE 30-12-13 10:53PM DUE 30-12-13 10:58PM DUE 30-12-13 10:01PM DUE 30-12-13 11:06PM DUE 30-12-13 09:53PM DUE 30-12-13 08:33PM DUE 30-12-13 08:00PM DUE 30-12-13 10:02PM

### 3rd FLOOR STUDY ROOMS

17



18



19



20



21



22



23



24



AVAILABLE AVAILABLE DUE 30-12-13 11:32PM AVAILABLE AVAILABLE DUE 30-12-13 08:42PM DUE 30-12-13 10:18PM AVAILABLE

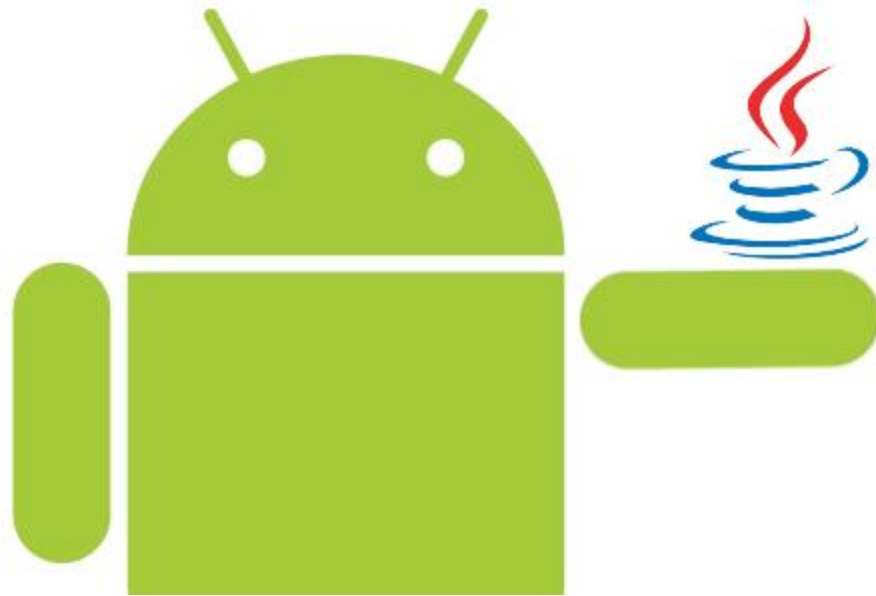
# BORROW V<sub>1</sub>A MOBILE DEV<sub>1</sub>CE





# TECHNOLOGIES USED

- Java with SDK extension
- Mysql
- Php
- Flash Player
- Unity/OpenGL



# WHAT WE WILL DO



- Payment
  - Credit Card
  - PayPal
- Hold Materials
- Extend Deadlines
- Real Database

