

Status Report *MCA*

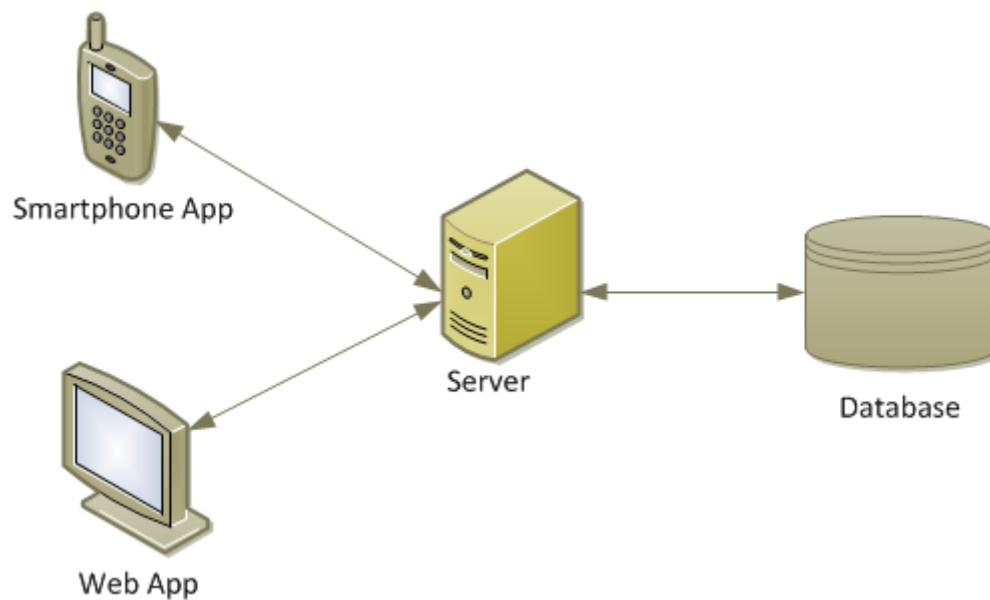
Project Library Application

Author Jessica Goertz

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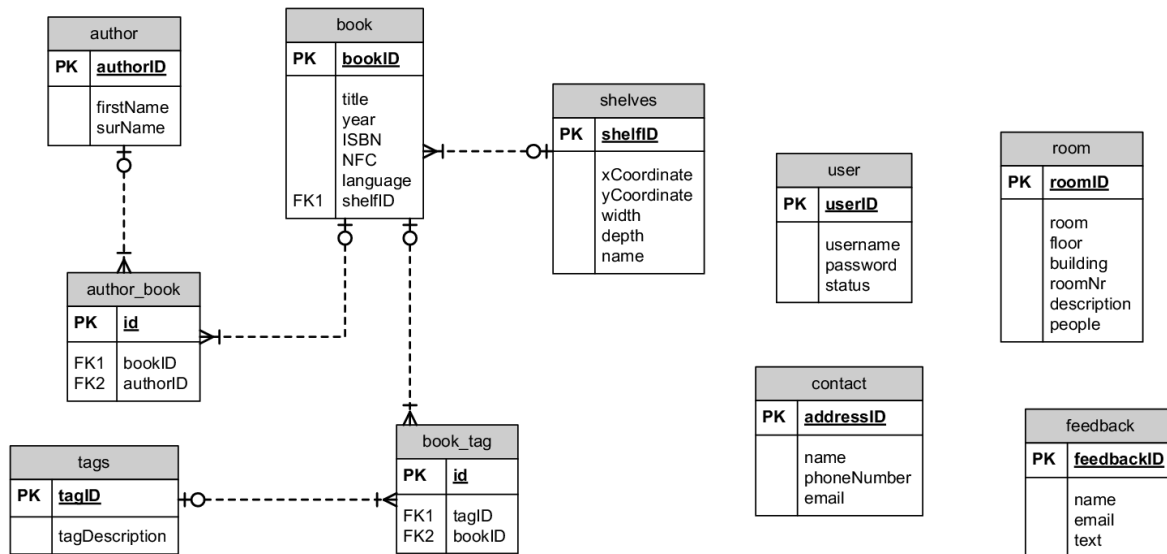
Members Jessica Goertz, Bledar Baxhaku, Panagiotis Grivas

Technical details



The exchanged data format between the smartphone application and the server is JSON. The communication between smartphone application and desktop application is an http request. The smartphone application send http requests to the webserver. This webserver hold via php technology the connection to a database. This database is a MySQL database, which is detail explained in the next chapter. The smartphone app is based on Android.

Create Data Model



The database **bypara5_libapp** is based on MySQL. Management of the app is done over a PHPMyAdmin clone, called MyWebSQL, containing all necessary tools for administering and optimizing MySQL Databases.

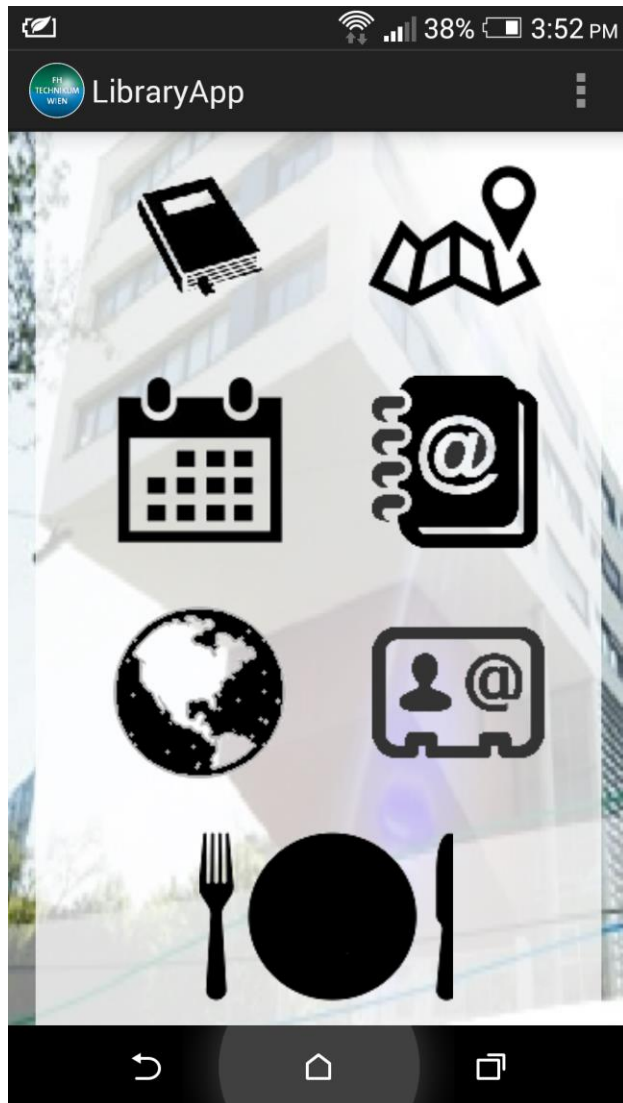
The database contains 8 Tables:

The table **book** consists of a *bookID*, a *title*, *publishing year*, *publisher*, *ISBN*, *language*, *selfID*, where the book is located. The book table has a m/n relation with an author table. The **author** table consists of an *authorID*, *surname* and *first name* of the author. The book table has also a m//n relation with a tag table. The **tag** table consists of a *tagID* and a *description*. With this description the user can find and book. At least the book is in relation with the **shelf** table, which consist of *shelfID* *x* and *y* coordinates, a *name*, a *width* and a *depth*. This relation is a 1/m relation.

There are 4 more tables, which have no relations. First the **room** table consists of a *roomID, floor, building, description*. The **user** table consists of *userID, surname, firstname, username and a password*. This is used for the administration part on the web application to login and add new stuff. A **contact** table consist of a *contactID, name, email and phone number*. And at least a **room** table consists of a *room, floor, building, roomNr, description and number of people*.

Design Study

App Started: First Activity



After Pressed on Book Button



After Pressed on NFC Button in the Book Activity



After Pressed on Information Button in the book Activity



After pressed on Feedback Button
in the Main Activity

After pressed on News Button in
the Main Activity

After pressed on Menu Button in the Main Activity



	Menü Classic 1 EUR 5,60	Menü Classic 2 EUR 6,20	Pasta EUR 4,90	Pasta Exclusiv EUR 5,20	Brainfood/ Tagesgericht 1	Grill/ Tagesgericht 2
Montag 17.11.2014	Klare Gemüsesuppe mit Frittaten Pikantes Gemüsechili mit Erdäpfel dazu ein Wachauer Weckerl und Blattsalat	Klare Gemüsesuppe mit Frittaten Gekochtes weißes Soهرز mit Dillrahmsolten, Erdäpfelrösti und Blattsalat	Spaghetti "Bolognese"	Pasta in Kräuter-Shrimpsauce	Gratinierte Hühnerbrust in Topfen-Lauchkruste mit Thymianjus und Spätzle EURO 6,80	-
Dienstag 18.11.2014	Maiscremesuppe Gemüsepalatschinken mit Kräuterrahmdip und Blattsalat	Maiscremesuppe Gebackenes Putenfilet mit Gemüsereis und Preiselbeeren	Spaghetti "Bolognese"	Pasta in Austernpilzsauce	Kalbsragout "Zürcher Art" mit Vollkorn Fusilli EURO 6,70	Gebratenes Lachsfilet auf Limettenobersauce mit Gemüsetagliatelle EURO 7,80
Mittwoch 19.11.2014	Klare Gemüsesuppe mit Backerbsen Spinatspätzle mit Osterkronsauce und grünem Salat	Klare Gemüsesuppe mit Backerbsen Gebratenes Hühnerfilet "Madagaskar" auf Pfeffersauce mit Bräterdäpfel und grünem Salat	Spaghetti "Bolognese"	Pasta in Paradieser-Basilikumsauce	Schweinsmedallions vom Grill mit scharfem Letscho und Erdäpfel	Erdäpfeläpfchen mit Paradeiser und Mozzarella
	Kürbiscremesuppe	Kürbiscremesuppe			MENSA BURGER vom Rind	

Completed Tasks

Create Data Model

Design Study

Introduction into NFC usage & First Implementation

Next Tasks

Preparation of data source & Importing into Database

Implement Web Service

Implement User Interface