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Library iOS App
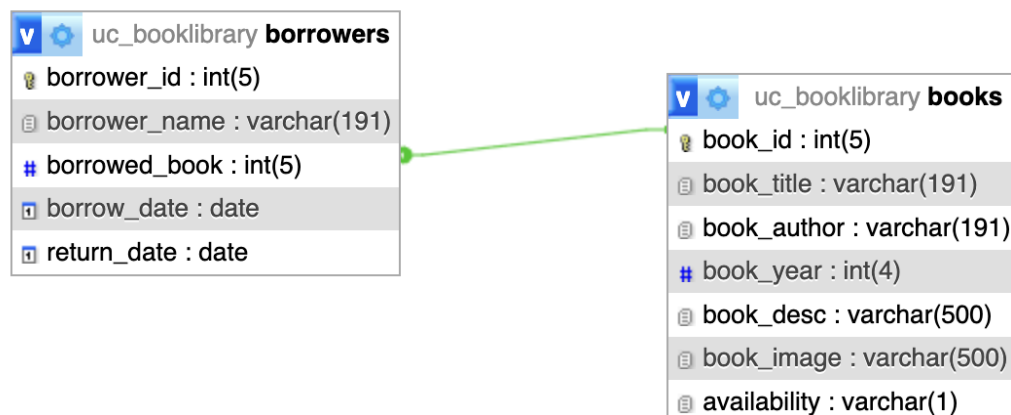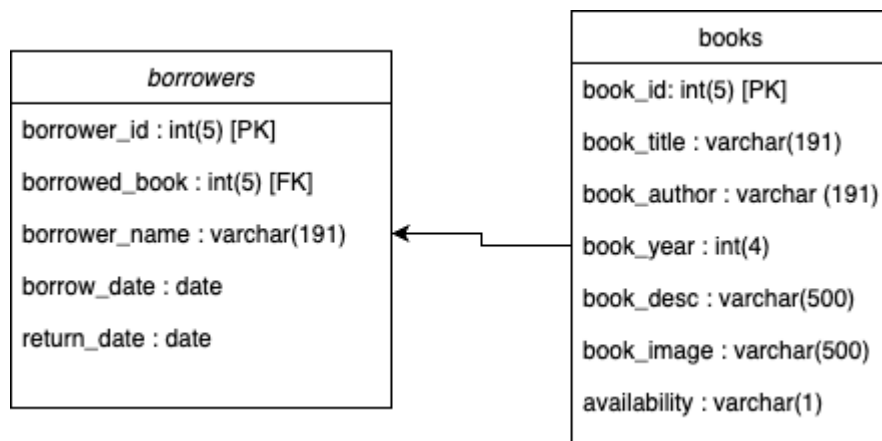https://github.com/mjohantito/UCLibraryBorrowApp.git

Library php REST API
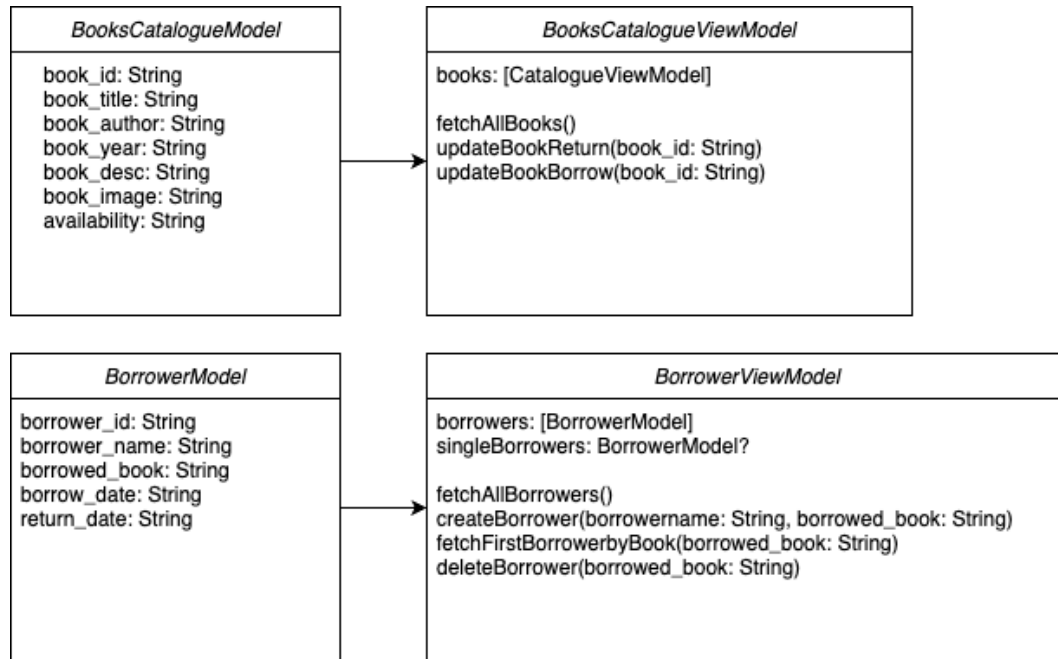https://github.com/mjohantito/UCLibrary_RESTAPI.git

Unit Testing Video
https://drive.google.com/file/d/1XvEI4b1lpMQLS48xQFJpLUpHA3ghYv5f/view?usp=drive_link

ERD

Class Diagram

BooksCatalogueModel
book_id: String book_title: String book_author: String book_year: String book_desc: String book_image: String availability: String

BooksCatalogueViewModel
books: [CatalogueViewModel] fetchAllBooks() updateBookReturn(book_id: String) updateBookBorrow(book_id: String)

BorrowerModel
borrower_id: String borrower_name: String borrowed_book: String borrow_date: String return_date: String

BorrowerViewModel
borrowers: [BorrowerModel] singleBorrowers: BorrowerModel? fetchAllBorrowers() createBorrower(borrowername: String, borrowed_book: String) fetchFirstBorrowerbyBook(borrowed_book: String) deleteBorrower(borrowed_book: String)

Test Scenario

Scenario	Steps	Expected Result
Users View Book Catalogue	- Open the app - Verify that users can see list of available and borrowed books	Users should be able to see list of available and borrowed books
Users can borrow the book	- Choose book that has 'Available' status - Click 'borrow' button bellow the book details - Fill the required Information (name) - Click save	- The status of book should be changed in the catalogue to 'Borrowed' and the button from chosen book should be changed to 'Return' - The borrower name should be created in the 'borrowers' database
Users can return the book	- Choose book user want to return, should be in the 'Borrowed' status - Click 'Return' button bellow the book details - Verify that information provided is correct	- The status of book should be changed in the catalogue to 'Available' and the button from chosen book should be changed to 'Borrow'

	- Click 'Return' Button	- The borrower information should be deleted in the 'borrowers' database.
Users can see borrower from the book	- Choose book user want to see the borrower of the book. Book should be in the 'Borrowed' status. - Click 'Return' button below the book details	- User should be able to see information of the book borrower (name, book title, borrowed date, and return date)