

Design Document for "Recommend Me"

Group <1_yn_6>

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Contribution: Block Diagram classes and design description

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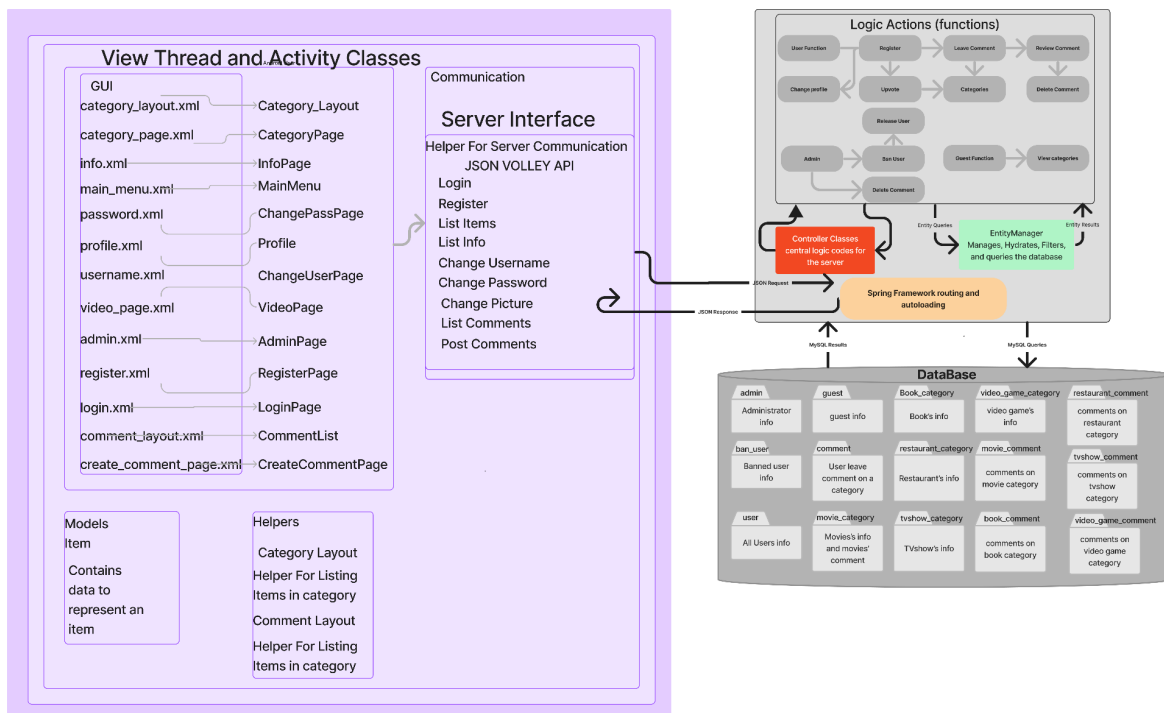
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Contribution: Block Diagram database&logic action formatting and design description

Member4 Name: Wenqin Wu

Contribution: Block Diagram logic action and tables list

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Android User Gui:

The android gui is composed of xml files paired with corresponding java class files that define an activity. Within the box labeled View Thread and Activity Classes, there are listed 13 activities each defined by a java class for logic and xml file for layout.

Android Helpers:

The program will use 2 helpers. The first helper is Category Layout, which defines the correct dynamic layout to list all items in a category. The second helper is Comment Layout, which dynamically lists all the comments from an item within a category. These helpers allow the app to list as much data as is required on the fly.

Android model:

The app will use one model, named item, to represent the data associated with a specific item. This model helps to conveniently be able to get and set data values with ease within multiple classes.

Android Communication:

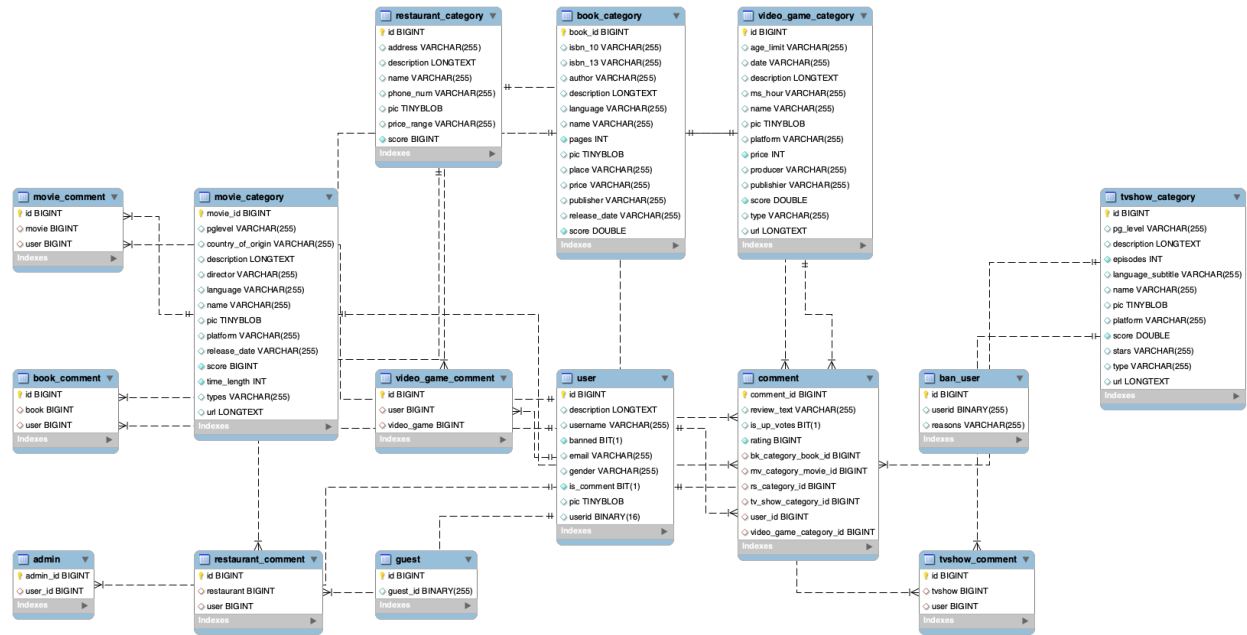
The app will use the Volley API in order to send and receive JSON requests asynchronously with the MySql database.

Spring Framework

Spring framework is a lightweight Java development framework that provides a platform for application development. It was created to address the complexities of enterprise application development. One of the main advantages of the framework is the layered architecture, which allows the user to choose which components to use, while providing an inherited framework for J2EE application development.

In our project, most functions were written into the controller package, and these functions will be able to handle data creation and queries. Variables definitions were written in the model package to define the type of the item in the SQL tables.

Page 4 (Table Diagram):



Page 4 (Table List):

Table:	Relation:	Type:
Admin	User	OneToOne
BanUser	User	OneToOne
BookCategory		
BookComment	User BookCategory	ManyToOne ManyToOne
Comment	User MoiveCategory BookCategory ResturantCategory TVShowCategory VideoGameCategory	OneToOne ManyToOne ManyToOne ManyToOne ManyToOne ManyToOne
Guest		
MovieCategory		
MovieComment	User MovieCategory	ManyToOne ManyToOne

RestaurantCategory		
RestaurantComment	User ResturantCategory	ManyToOne ManyToOne
TVShowCategory		
TVShowComment	User TVShowCategory	ManyToOne ManyToOne
User		
VideoGameCategory		
VideoGameComment	User VideoGameCategory	ManyToOne ManyToOne