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## **Design Document for Financio**

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Group: 1\_mc\_1

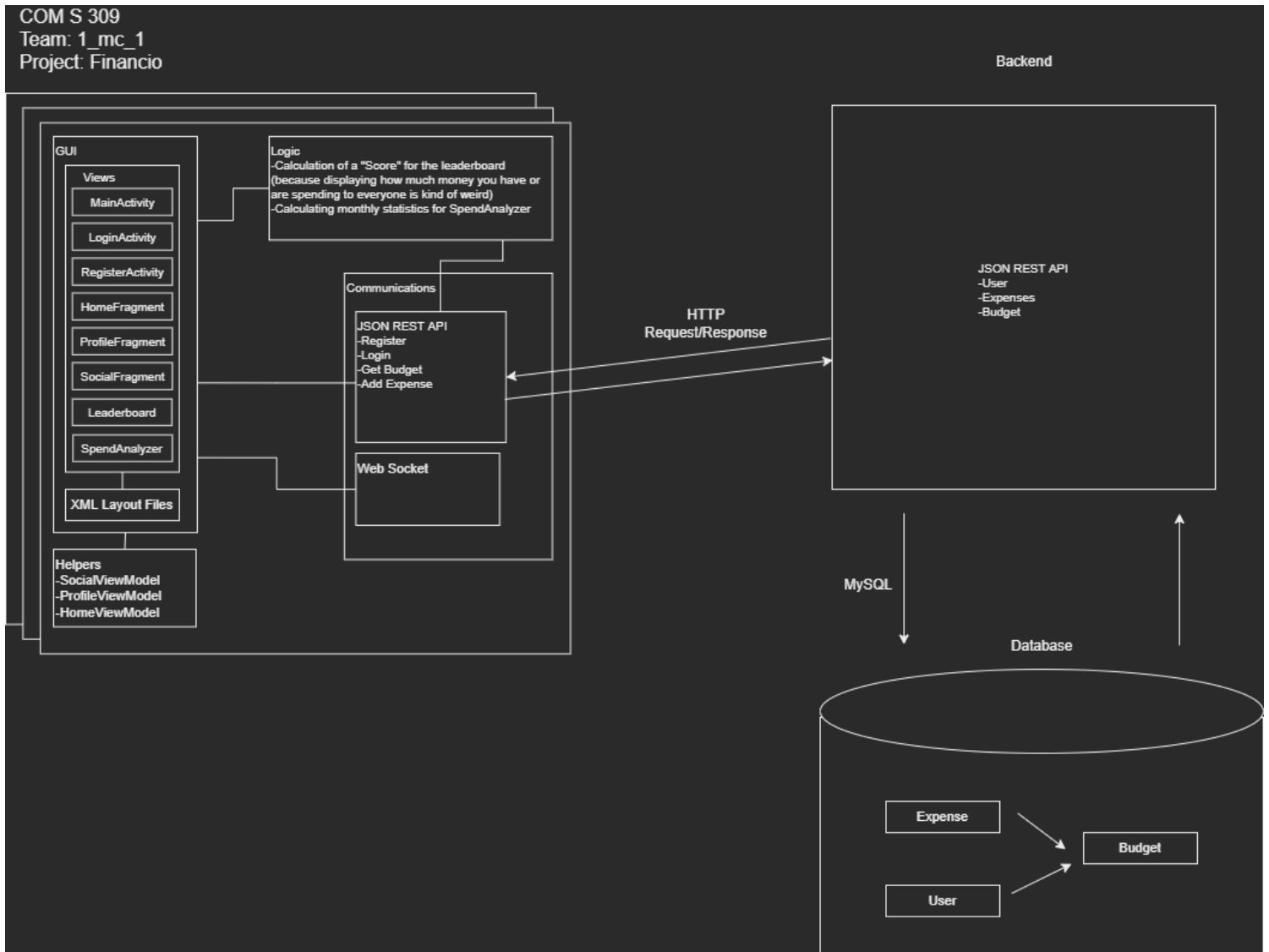
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# Block Diagram

COM S 309  
Team: 1\_mc\_1  
Project: Financio



# Design Description

## Andriod Communication

Our app utilizes JSON commands to communicate between the client and server. After logging in or registering, the given information is used to pull the specific user information from the server. Web Socket communication allows device to device connectivity. By entering a username into the social view, a user friend object is created, pulling all the information from the server via JSON, and clicking on the list view item allows you to text back and forth with that user.

## View

As seen in the diagram, Financio incorporates nine views for full functionality. There are three main screens after the login/registration pages: Home, Social, and Profile. From within these three screens, you are able to access the other remaining fragments. Add Expense is accessed from the home page and allows user to add the most recent expense to the applicable category. Friend Chat can be accessed from the social page after adding the friend's user id. The Compare Months fragment can be accessed from the profile page, and allows you to see the difference in money spent between the current month and previous months. Each view has an XML file attached to it as seen in the GUI part of the diagram. One example of an object that is used would be the User object which is created when adding a friend by their user id.

## XML

As mentioned above, each view has an XML file attached to it. In each of the parent fragments (Home, Social, and Profile), a Frame Layout is added to the end of the XML file to allow for proper use of the Fragment Transaction. The frame layout defines the layout width and height, as well as the constraints of the fragment to be created on top of the current fragment.

