
Design Document for FlickPick

Group JK_1

Matt Graham: 25%

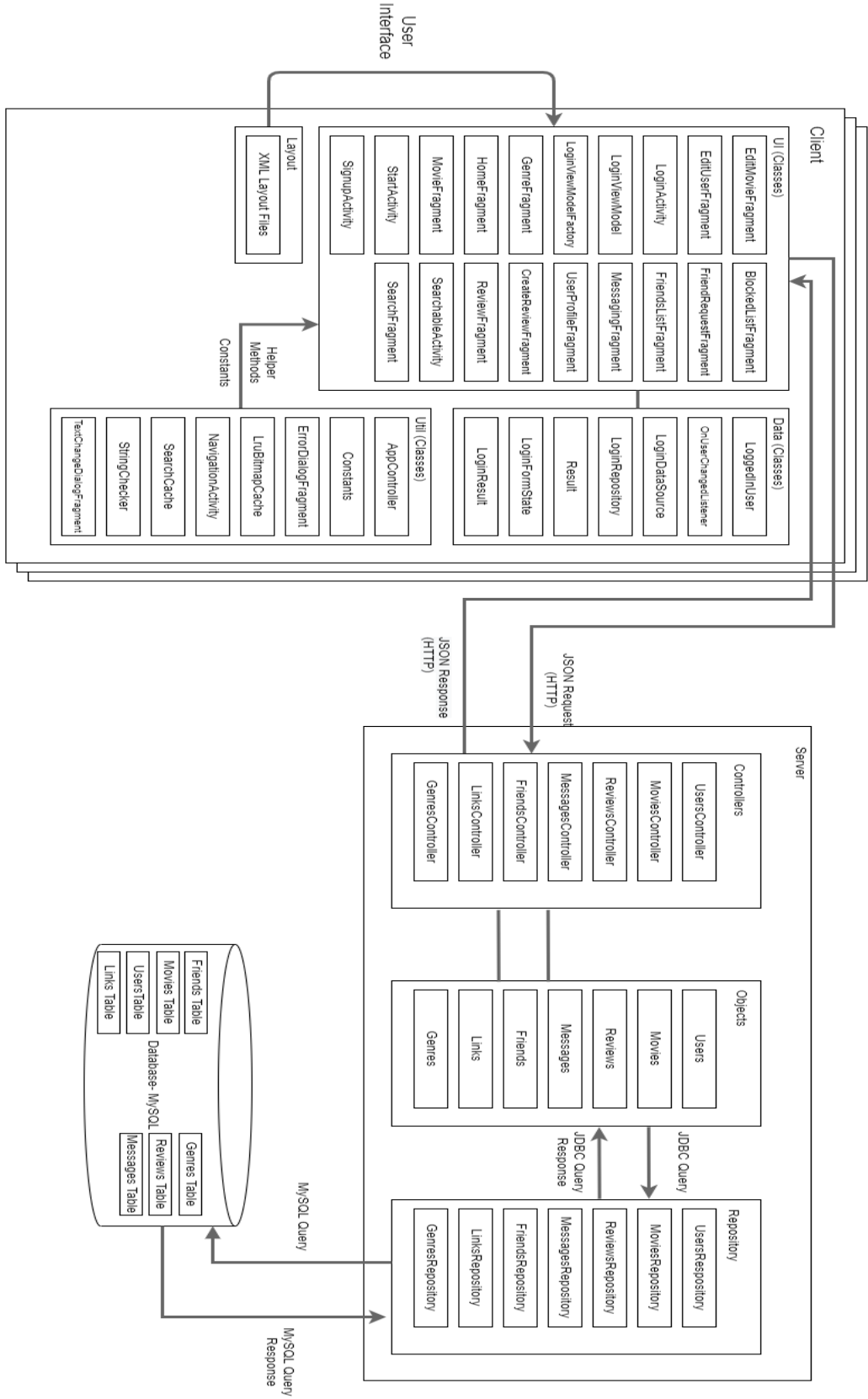
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FlickPick Block Diagram
JK_1

Dustin Cornelison
Liam Janda
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Design Description

Frontend

NavigationActivity

- Activity that manages the navigation between screens. Each fragment that uses this activity should be added to the mobile_navigation.xml file. NavigationActivity includes many methods in order to navigate to other screens and go back to the previous screen.

Search

- Search is done in multiple screens/steps. When a search is initiated, the user is taken to SearchableActivity, which sends a request to the backend for search results to display. Once the main results are received, the activity goes back to the NavigationActivity, which then switches to the SearchFragment, which in turn displays the results and allows the user to filter their search.

Backend

MoviesController

- The search algorithm uses parameterized queries to search the MoviesRepository and gather a list of unique movies and their associated genres that match all the given criteria.

ReviewsController

- Allows users to leave a review and rating on a specific movie. The rating is calculated as a float each time a new rating is made by a user. Each review has a corresponding id to easily search and find.

UsersController

- Allows the creation of unique users based on a username and email address. These unique users allow users to sign in to our application and communicate with each other using the MessagesController.

MessagesController

- The messages controller uses a WebSocket to send and receive messages between two friends in real-time. The messages will be saved into the messages table linking it to the two user ids.

