



Architecture Description

Views

The application will have four views, each with its own controller: one view that shows a list of movies by their poster image (**Main View**), one that shows detailed information about each movie once the user clicks on a poster (**Detailed Movie View**), one that lists movies that the user has marked as their favorites (**Favorite Movie View**), and one that shows the user the available settings (**Settings View**).

Controllers

The **Main Controller** must get settings from the **Settings Controller** (which retrieves the settings from the **Settings File**) such as the method that the user last used to sort movies by as well as retrieve all movie information from the **Movie Info Model**.

The **Favorite Movie Controller** will access the **Favorite Movies Model** to retrieve a complete list of movies the user has favorited along with their basic information.

The **Detailed Movie Controller** communicates with the **Movie Info Model** to get movie information for the current movie.

The **Settings Controller** retrieves data from the **Settings File** and sends it to the **Main Controller**.

Models

The **Favorite Movies Model** retrieves the movie ID from the **Database Interface**, which communicates with the **Database** directly, then matches the ID with information from the **Movie Info Model**.

The **Movie Info Model** collects information such as names, descriptions, movie posters, and ratings from the **Server Interface**, which uses information provided by *The Movie Database* (**TMDb**).