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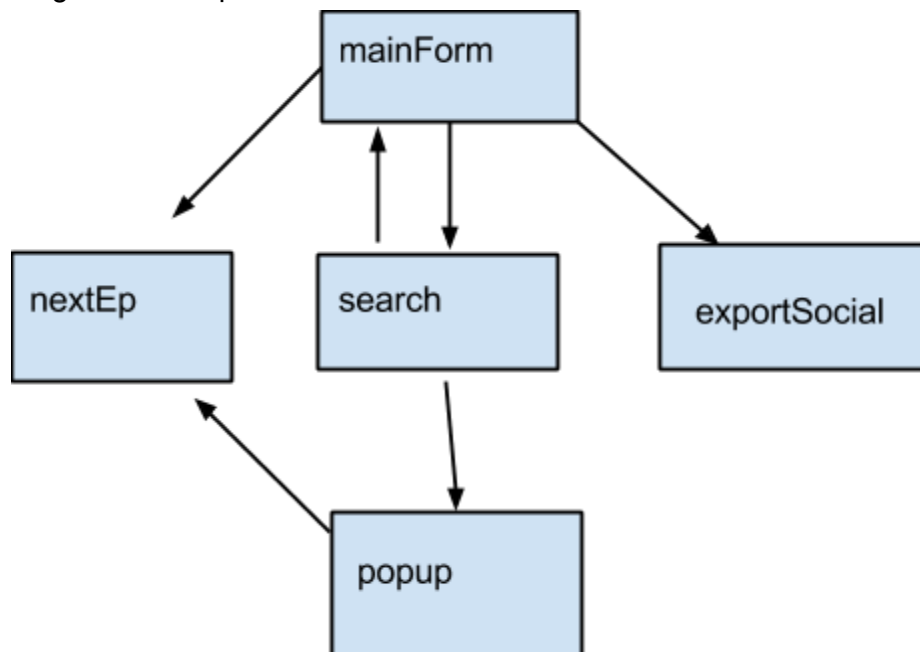Austin Rauschuber
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Incremental and Regression Testing

Classification of Components

Diagram of components and their interactions:

Define all components:

- Main Form - The primary window created upon execution of the program. This window has the ability to either start a search for a show (which will create a search window) or export your show list to a social network via exportSocial through the menu bar option to do so.
- exportSocial - This is located in top menu bar of the Main Form and allows you to tweet from your Twitter account. You can modify what the tweet will say, but the default message is "I just added <insert show names> to Buggy'sTV Guide. via @BuggysTV" It takes as input the message to post and outputs the message to the users Twitter account.
- nextEp - returns the upcoming episode of the show in a String object. The string includes the name of the show, title of the episode, the date, and the time. If no upcoming episode is found, then returns "No upcoming episode".

- Search - Reaches out to online database and displays results of database query (as specified in the Main Form) in a GUI window. A show can be selected from such, and the selected show is then used to instantiate a popup.
- Popup - Lists details of the show selected from the Search window, including show description, list of actors/actresses, and the next available showtimes. Users can add the selected show through this window by pressing the 'Add' button, which will immediately close the Popup window. Re-searching the added show will allow the user to remove the show.

Which Form of Incremental testing did you follow?

Top Down

We started by testing the Main Form, which is the first part of the program to appear. Once the Main Form was functioning, we began testing the Search component. After the Search component passed unit test, we combined the two by testing search with queries from Main Form. Following that, we performed unit tests on nextEp. Then we did unit tests on popup. Afterwards we tested popup using the results of the Search component and the results of nextEp. We unit tested exportSocial and then incrementally tested it in combination with data provided by MainForm. Finally, we also tested Main Form integrating the nextEp component.

Module	Search

Incremental Testing

Defect #	Description	Severity	How to correct
1	Bad search from Main Form provides no information	2	Provide information about bad search results
2	Loss of internet when creating popup for show selection provides no information to user and doesn't allow selection	2	Present error to user on selection with failed internet

Regression Testing

Defect #	Description	Severity	How to correct
1	Error for lack of results made a selectable list object which can toss error on selection	2	Disable selection of Error term

Module	exportSocial

Incremental Testing

Defect #	Description	Severity	How to correct
1	String does not put "and" before last show when listing 3 or more.	3	Change i-1 to i+1
2	If the message is longer than 140 characters it does not Tweet and no message is given.	2	Create a way to handle a message length that is too long.

Regression Testing

Defect #	Description	Severity	How to correct
1	Unused library due to change of implementation	3	Remove library