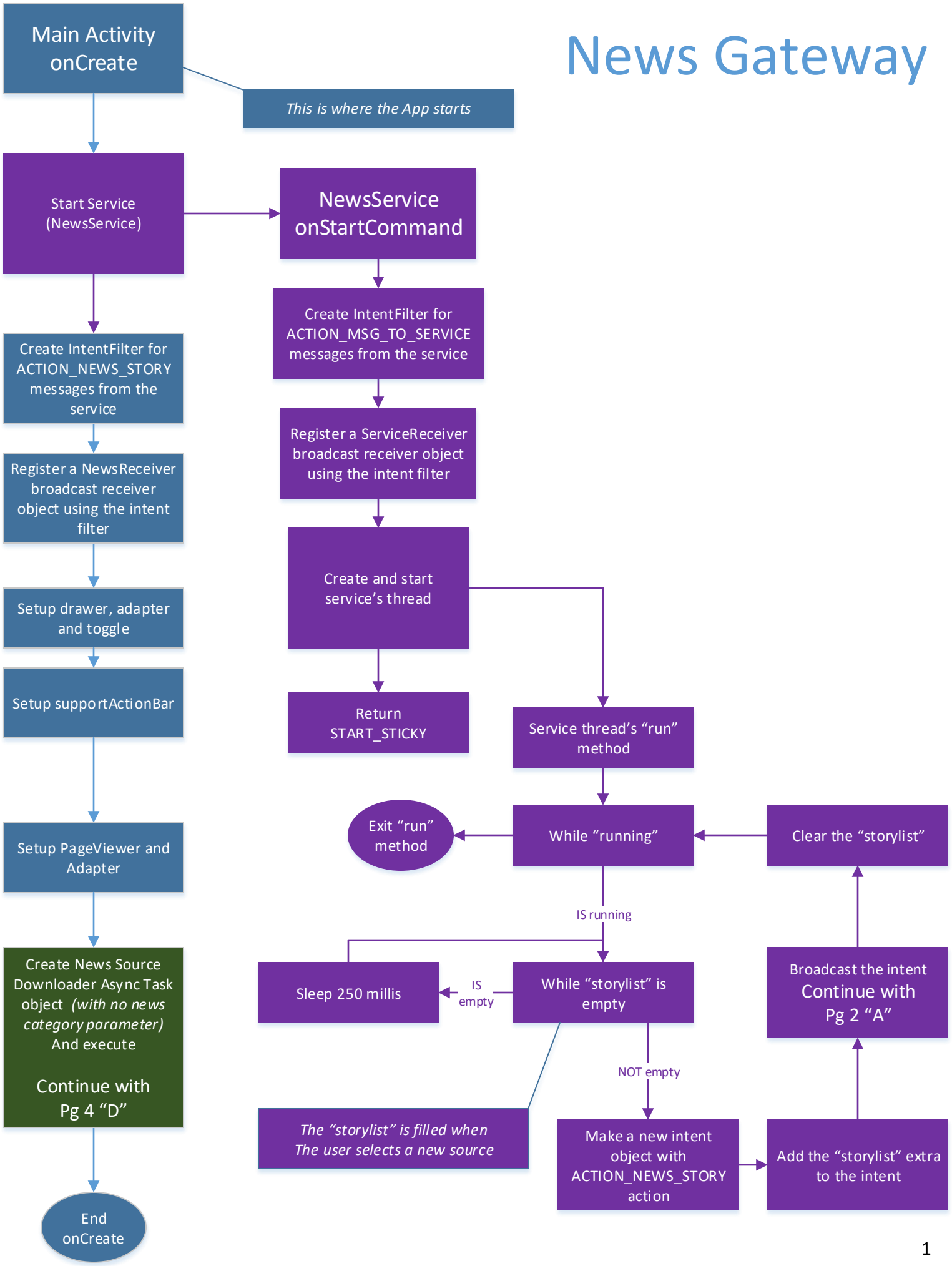
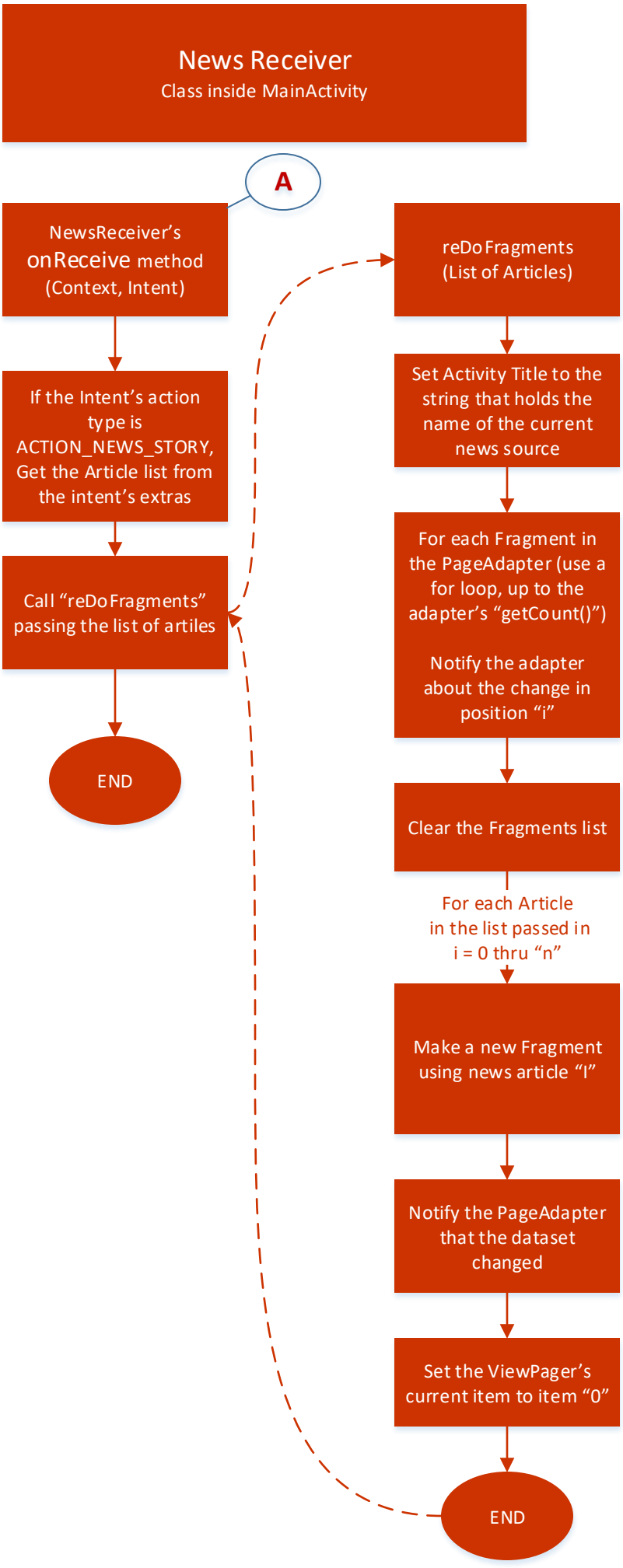
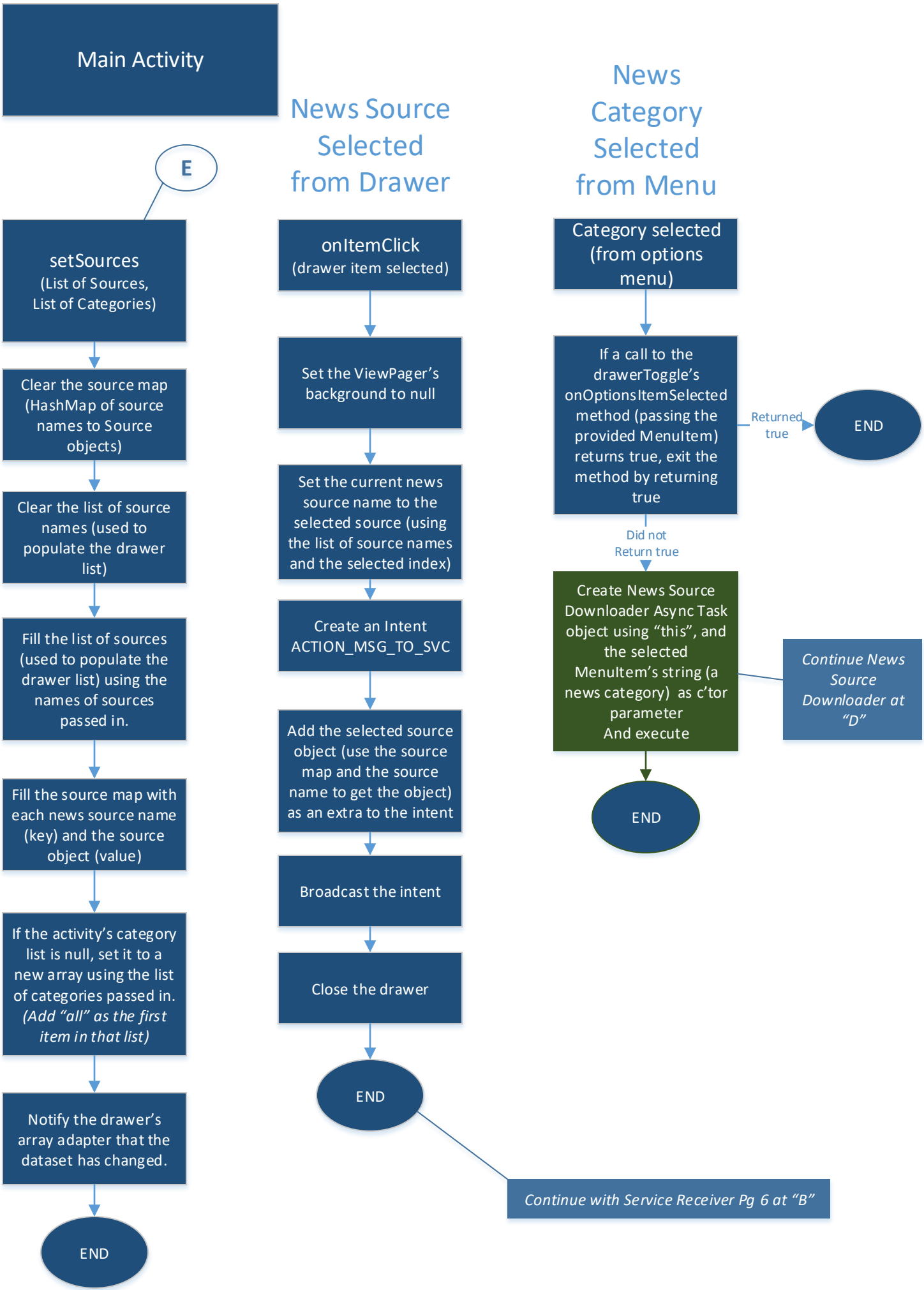
# News Gateway



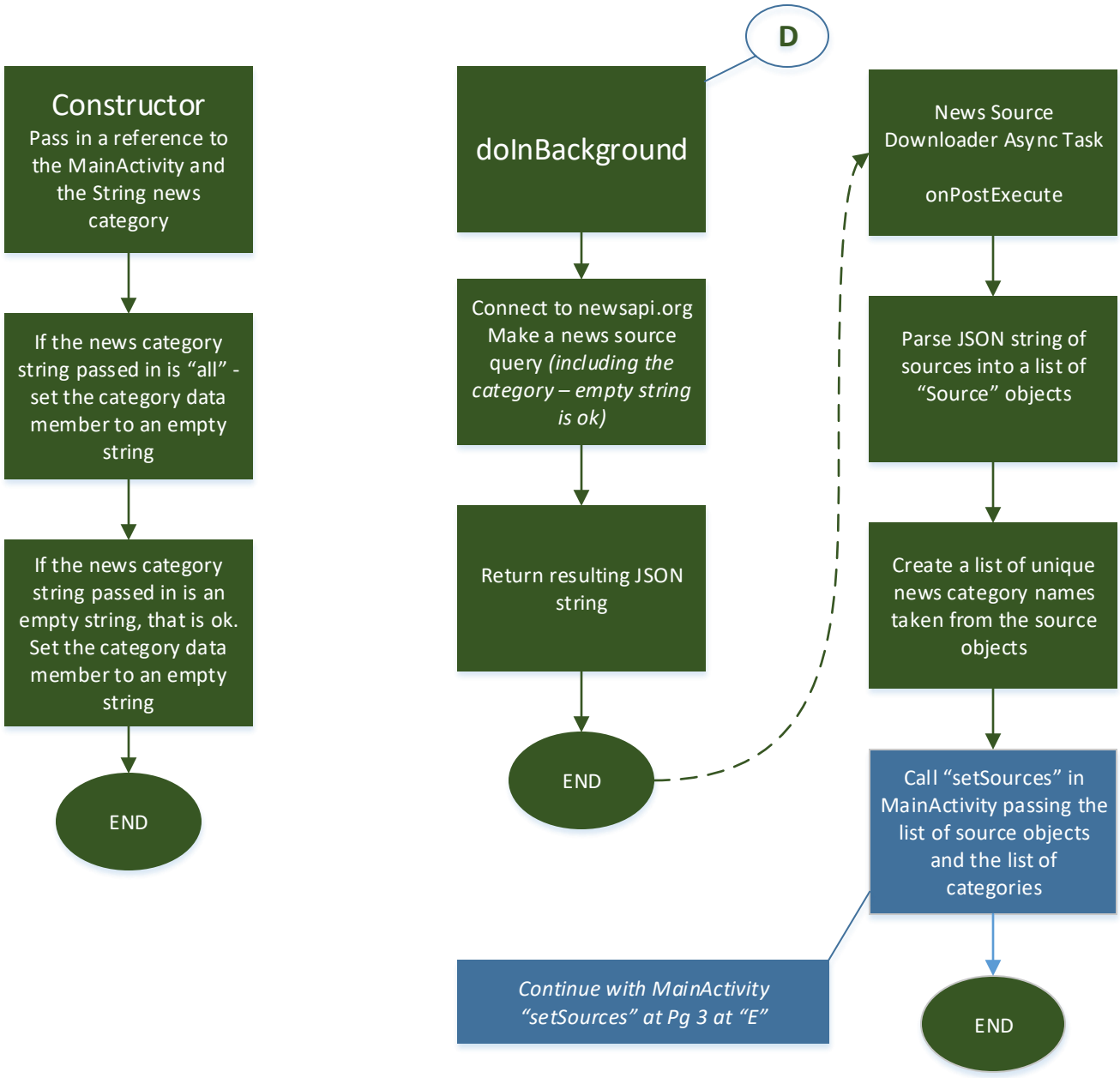

News Receiver
Class inside MainActivity
A
NewsReceiver's onReceive method (Context, Intent)
If the Intent's action type is ACTION_NEWS_STORY, Get the Article list from the intent's extras
Call "reDoFragments" passing the list of artiles
END
reDoFragments (List of Articles)
Set Activity Title to the string that holds the name of the current news source
For each Fragment in the PageAdapter (use a for loop, up to the adapter's "getCount()")
Notify the adapter about the change in position "i"
Clear the Fragments list
For each Article in the list passed in i = 0 thru "n"
Make a new Fragment using news article "I"
Notify the PageAdapter that the dataset changed
Set the ViewPager's current item to item "0"
END


Main Activity
E
setSources
(List of Sources,
List of Categories)
Clear the source map (HashMap of source names to Source objects)
Clear the list of source names (used to populate the drawer list)
Fill the list of sources (used to populate the drawer list) using the names of sources passed in.
Fill the source map with each news source name (key) and the source object (value)
If the activity's category list is null, set it to a new array using the list of categories passed in. (Add "all" as the first item in that list)
Notify the drawer's array adapter that the dataset has changed.
END
News Source Selected from Drawer
onItemClick
(drawer item selected)
Set the ViewPager's background to null
Set the current news source name to the selected source (using the list of source names and the selected index)
Create an Intent ACTION_MSG_TO_SVC
Add the selected source object (use the source map and the source name to get the object) as an extra to the intent
Broadcast the intent
Close the drawer
END
Continue with Service Receiver Pg 6 at "B"
News Category Selected from Menu
Category selected (from options menu)
If a call to the drawerToggle's onOptionsItemSelected method (passing the provided MenuItem) returns true, exit the method by returning true
Returned true
END
Did not Return true
Create News Source Downloader Async Task object using "this", and the selected MenuItem's string (a news category) as c'tor parameter
And execute
Continue News Source Downloader at "D"
END

# News Source Downloader

AsyncTask

Needs data members to store the MainActivity and the string news category

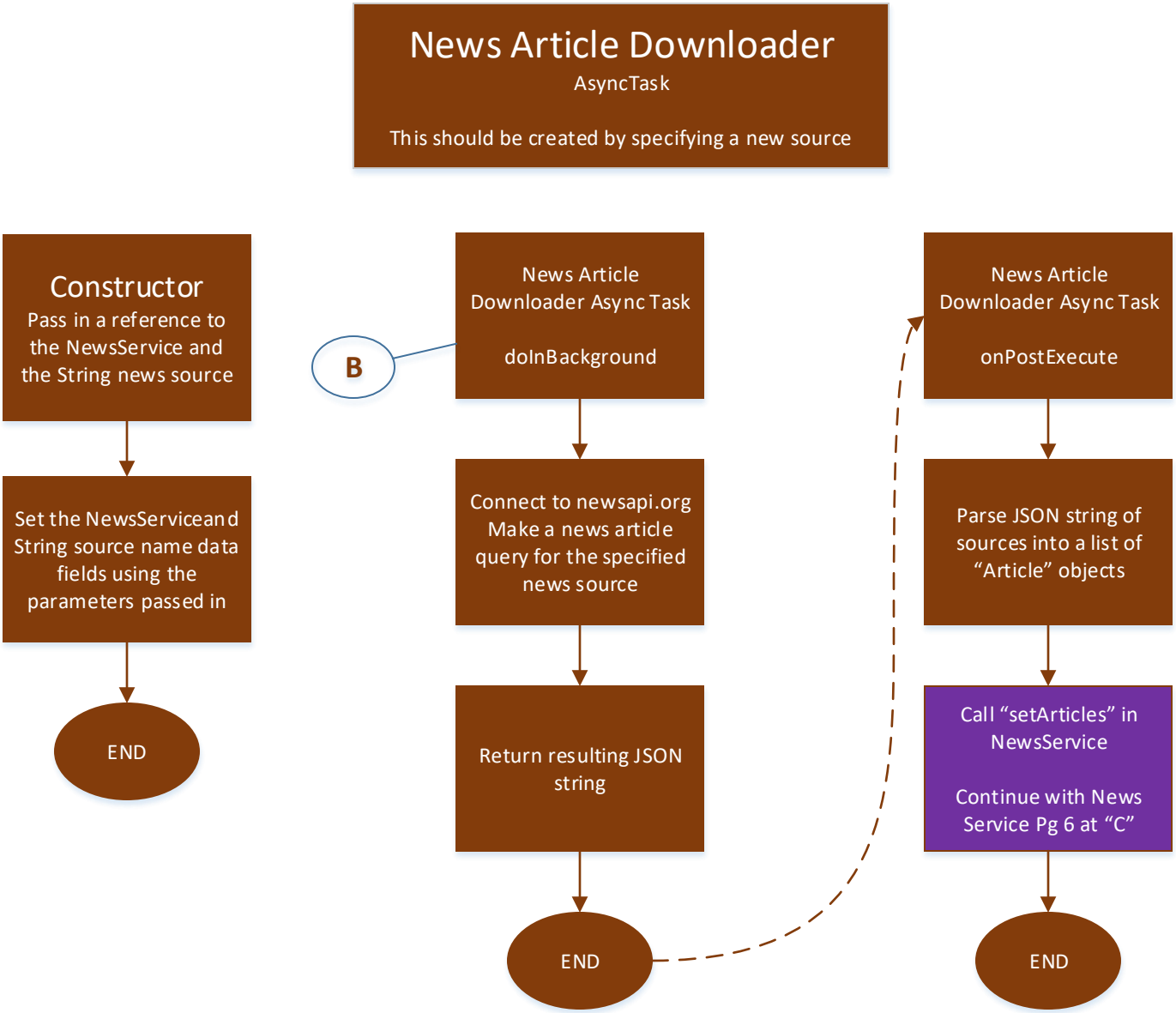



API call with NO news category

https://newsapi.org/v1/sources?language=en&country=us&**category=**&apiKey=a1b2c3

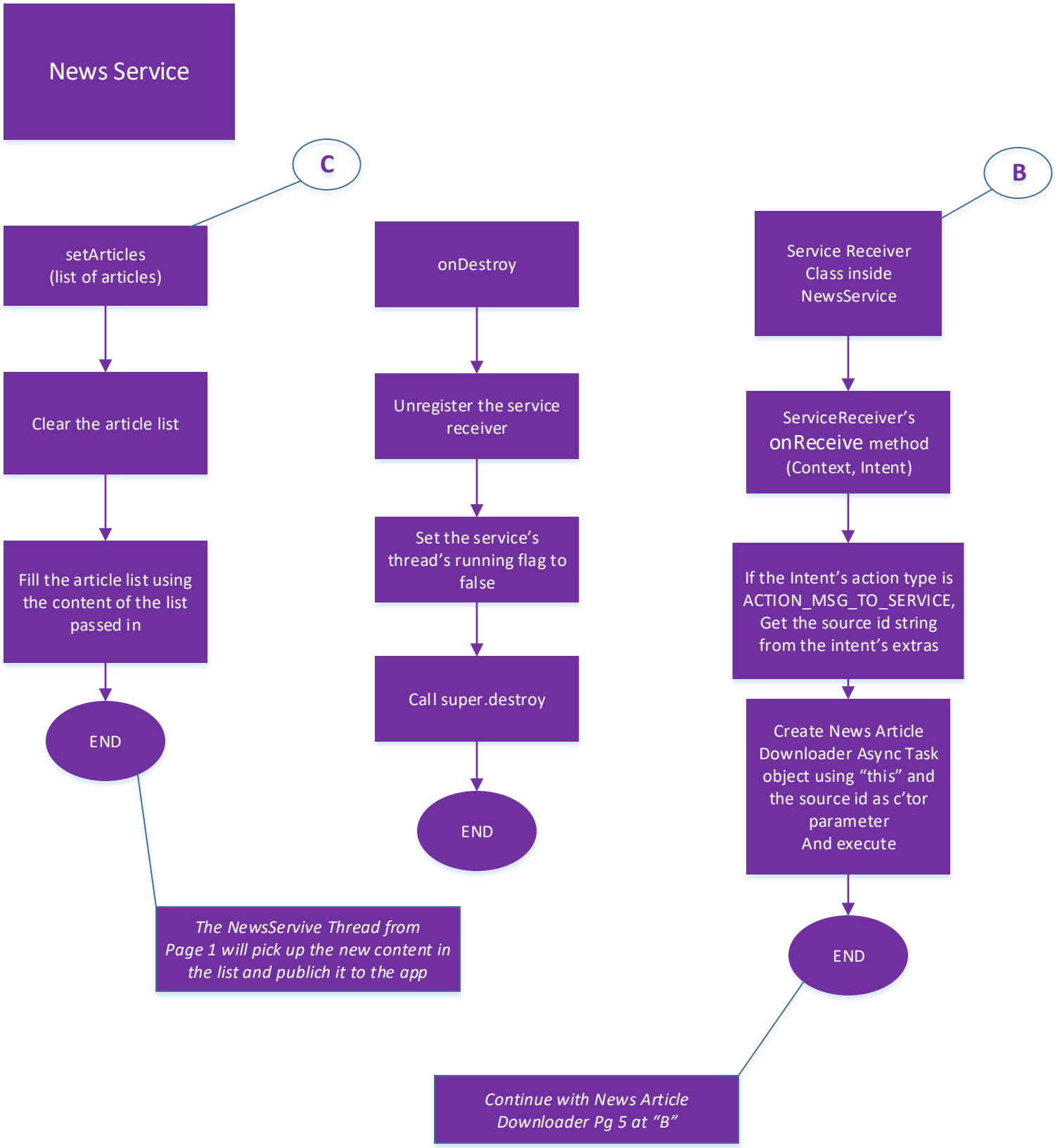
API call with a news category

https://newsapi.org/v1/sources?language=en&country=us&**category=technology**&apiKey=a1b2c3




API call

https://newsapi.org/v1/articles?**source=new-scientist**&apiKey=a1b2c3


News Service
C
setArticles
(list of articles)
Clear the article list
Fill the article list using the content of the list passed in
END
The NewsServive Thread from Page 1 will pick up the new content in the list and publich it to the app
onDestroy
Unregister the service receiver
Set the service's thread's running flag to false
Call super.destroy
END
B
Service Receiver Class inside NewsService
ServiceReceiver's onReceive method (Context, Intent)
If the Intent's action type is ACTION_MSG_TO_SERVICE, Get the source id string from the intent's extras
Create News Article Downloader Async Task object using "this" and the source id as c'tor parameter
And execute
END
Continue with News Article Downloader Pg 5 at "B"