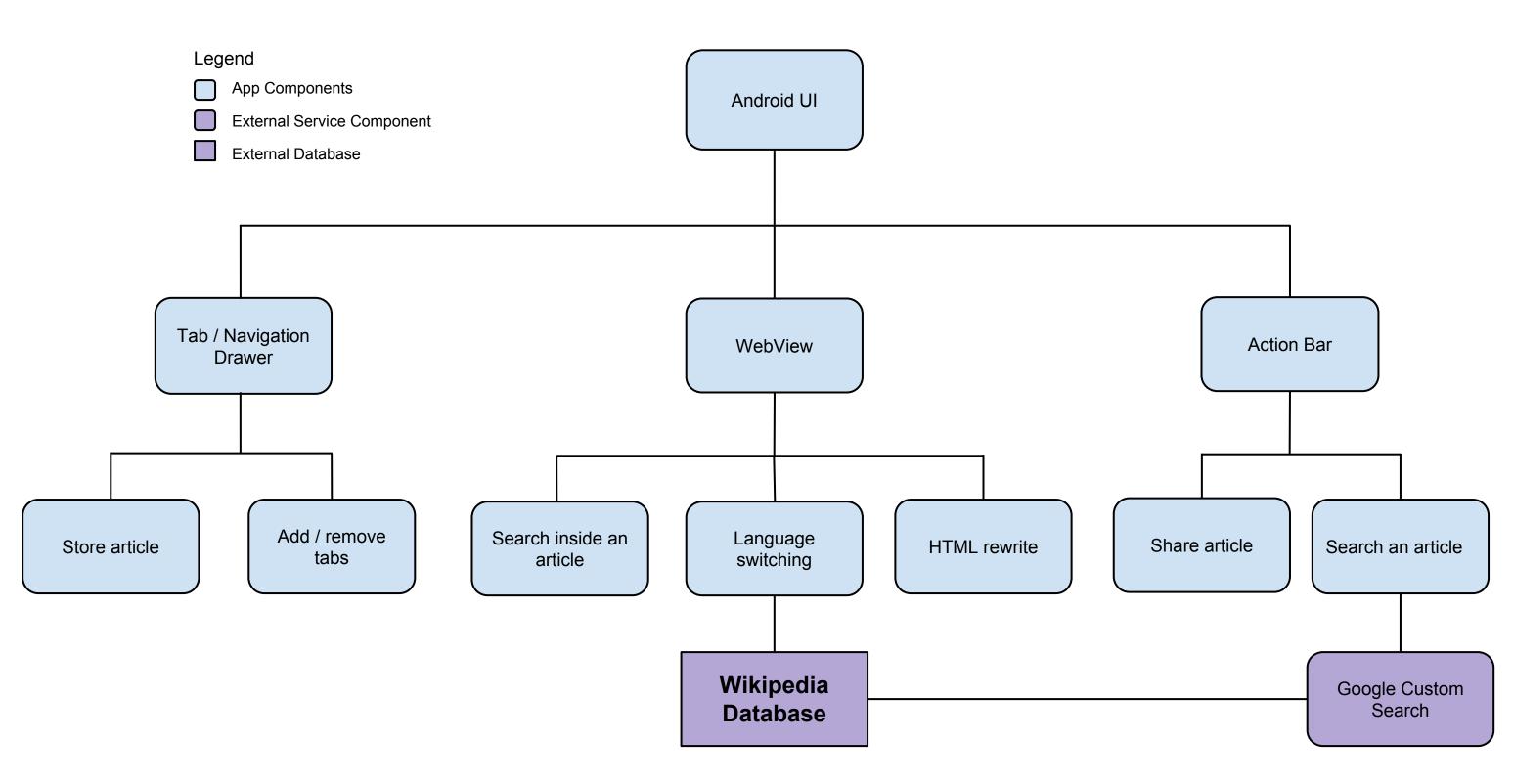
## **Incremental and Regression Testing**

## **Incremental Testing (Bottom-Up)**

We have selected bottom-up incremental testing due to the following reasons:

- It is more frequently used in industry and hence it is better to follow what is favored in industry
- It is more convenient to write the driver modules than the stubs
- We started from lower level modules and then proceeded towards upper level modules, hence bottom up approach was more desirable
- The bottom-up approach is easier to test as it prevents the overlapping of the design
- It is more flexible and adaptable



Component Name	Input	Output	Dependent Component
Store article	HTML of the specific article to be stored	A HTML file stored on memory	Tab / Navigation Drawer
Add / remove tabs	User click to add / remove tab	New tab added / removed to the tab list	Tab / Navigation Drawer
Search inside an article	Text to be searched on the article	Text Highlighted on the article	WebView
Language switching	Language list	URL of the specified language	Wikipedia Database, WebView
HTML rewrite	HTML string retrieved from Wikipedia server	HTML string with SearchBar and languages switching code removed	WebView
Share article	URL of the article to be shared	A list of application able to share the link, passing the link to them	Tab / Navigation Drawer
Search an article	Article name	Name, URL of the article searched	Action Bar, Google Custom Search
Google Custom Search	HTTP get request with the article name and other options.	List of wikipedia links with some articles searched	Search an Article
Wikipedia Database	Article title	List of other possibles languages for an article and article links when searched	Search an article, Choose a different article language

Module:		Store article	
	Incremental T	esting	
Defect #	Description	Severity	How to Correct
			Implement an activity to show the saved
	1 Action to list the articles saved not working	2	links and articles
	Regression T	esting	
Defect #	Description	Severity	How to Correct
	When implementing the button to save the		
	article, they have to be saved in diffent		
	formats depending the android version		Verify the android version and then save in
	where the app is running	2	the appropriate format
	Does not restore the tabs on reopening the		Implement method to save the articles that
	2 app	2	are currently open.
Module:	Add	d / remove ta	he
Module.			ius
	Incremental T	esting	
Defect #	Description	Severity	How to Correct
	Action title still changes even if the tab is		Title shouldn't change if current tab isn't
	loaded in background	2	loading a new page
	WebView still displays web content if the last		Remove the last WebView from root view
	2 tab is removed	1	if it's removed
	Regression T	 estina	
<b>5.</b> 4. "			
Defect #	Description	Severity	How to Correct
	Preventing title change when tab is loading		Command talk title also and the construction
	in the background causes current tab title		Current tab title should change when
	1 not changing too	2	current tab is loading
Module:	Searc	h inside an a	article
	Incremental T	esting	
Defect #	Description	Severity	How to Correct
	App crashes when nothing is entered in the search field	1	Put catch exceptions to handle this case
	Regression T	esting	

Defect #		Description	Severity	How to Correct
		Does not remove highlights after closing the		Implement method to remove all the
	1	search field		2 highlights
Module:		Lang	uage Swite	ching
		Incremental T	esting	
Defect #		Description	Severity	How to Correct
		After switching to a non-English language,	o o i o i i o	
		doing another search will bring up the new		Store current language code as a variable
	1	result in English.		2 and pass to Search module
		Language names are not all capitalized		
	2	properly		Manually fix JSON string of languages
				Known limitation with Android devices.
		Certain languages are invisible on Android		Wikipedia's suggested solution is to root
		devices (i.e. not a full Unicode font set		the device and install font kits, which we
	3	installed)		2 cannot legitimately require.
		Regression To	esting	
Defect #		Description	Severity	How to Correct
		When language dialog is open, selecting		Include exception handling to close the
		"OK" option without selecting a language will		dialog without switching languages or
	1	crash the app.		1 crashing.
		When selecting a language, there is no easy		
	_	way to tell what language the user has		Change dialog to use some sort of visual
	2	chosen.		aid - radio button, check box, highlight, et
Module:		Н	TML rewri	e
		Incremental T	esting	
Defect #		Description	Severity	How to Correct
		HTML rewrite for removing built-in search		Implement function to remove HTMLs
	1	bar not implemented		1 related with built-in search bar
		HTML rewrite for removing built-in language		Implement function to remove HTMLs
	2	switching not implemented		1 related with built-in language switching
		Regression To	estina –	
Defect #				How to Correct
Delect #		<b>Description</b> Built-in search bar and language switching	Severity	HOW TO COHECT
	1	functionality still shows in the WebView		Implement HTML rewrite

Module:	Share article			
	Incremental	Testing		
Defect #	Description	Severity	How to Correct	
1	Action to share the article not working	2	Implement action button to share the articles	
	Regression	Testing		
Defect #	Description	Severity	How to Correct	
Module:	Search an article		le le	
	Incremental	Testing		
	Description	Severity	How to Correct	
1	When user searches for "Wikipedia", the wikipedia home page shows up		It should show the article related with Wikipedia	
	Regression	Testing		
Defect #	Description	Severity	How to Correct	