Incremental and Regression Testing

Classification of Components
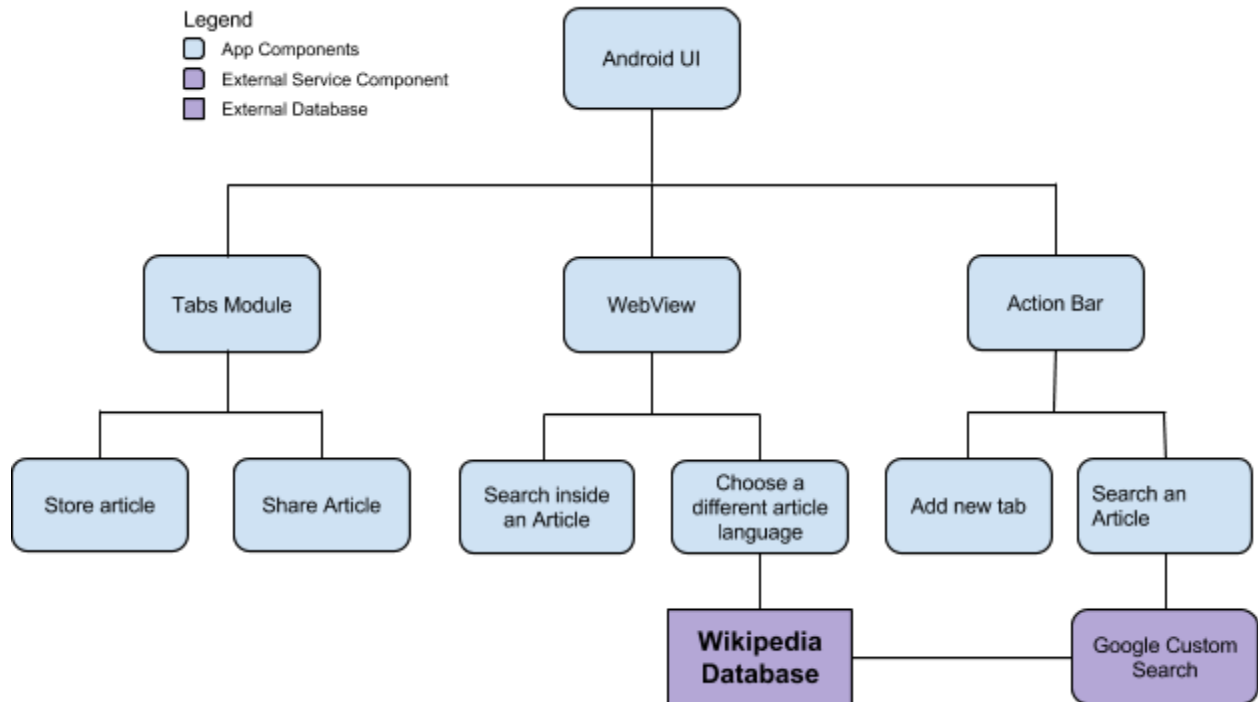
Component Name	Input	Output	Dependent Component
Choose a different article language	Language list	URL of the specified language	Wikipedia Database, WebView
Store article	HTML of the specific article to be stored	A HTML file stored on memory	Tabs Module
Share Article	URL of the article to be shared	A list of application able to share the link, passing the link to them	Tabs Module
Search inside an Article	Text to be searched on the article	Text Highlighted on the article	WebView
Add new tab	User click to add a new tab	New tab added to the tab list	Tabs Module
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

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