Code Smells in the SharingApp

1. Inappropriate Use of Comments

Location	Description	Why is this a Problem?	Solution
All files	Insufficiency: Lack of Java documentation in between the imports and the start of the class. Some have comments but still lacking information.	Lack of information overview and other developers may have a hard time scanning through the code to understand faster.	Create a java doc for each of the class stating the functionality of the method, parameters and return value
AddContactActivity.java Line 56 & 62 AddItemActivity.java Line 97 & 103	Excessive: Unnecessary comment.	Redundancy. Code is already readable enough.	Remove comments on stated lines
EditItemActivity.java Line 114, 120, 183, 189, 202, 209, 211, and 219	Excessive: Unnecessary comment. (114,120,183,189) Inappropriate: Wrong Comment Placing (202, 209, 211, 219)	Redundancy. Code is already readable enough. Too many comments going inside the method	Remove comments on stated lines. Then have a java doc on top of the toggleSwitch method if you want to explain the method parts further.
ItemAdapter.java Line 34, 35, 44	Excessive: Unnecessary comment.	Redundancy. Code is already readable enough. Comments also describe methods too much. This can be an indication of Long Method	Remove comments on stated lines. (See other numbers of this document for more details of solutions to other violations)
ItemsFragment.java Line 38, 62, 82-85, 88-90, 97-99	Excessive: Unnecessary comment.	Redundancy. Code is already readable enough.	Remove comments on stated lines.
MainActivity.Java Line 40	Excessive: Unnecessary comment.	Redundancy. Code is already readable enough. This also leads to Message Chains and Feature Envy	Remove comments on stated lines. (See other numbers of this document for more details

		(see other numbers of this document for more details)	of solutions to other violations)
SectionsPagerAdapter.Java Line 36	Excessive: Unnecessary comment.	Redundancy. Code is already readable enough.	Remove comments on stated lines.

2. Long Method

Location	Description	Why is this a	Solution
		Problem?	
ItemAdapter.java	The getView method	Long methods can	Consider splitting
getView Method	is quite long and	indicate that the	it into smaller,
	handles multiple	method is more	more focused
	responsibilities.	complex or has more	methods for
		occurring within it	better readability
		than it	and easier
		should.	maintenance.
MainActivity.java	The onCreate method	Long methods can	Consider breaking
onCreate Method	is doing quite a bit of	indicate that the	down the setup
	work.	method is more	logic into smaller
		complex or has more	methods for
		occurring within it	improved
		than it	readability and
		should.	easier testing.

3. Feature Envy

Location	Description	Why is this a	Solution
		Problem?	
ItemAdapter.java	The logic to show or	Adapters should not	It's better to
View logic	hide the status based	handle logic like this	encapsulate such
	on the fragment's type	directly	logic within the
	should ideally be		fragment itself or
	handled outside the		a separate utility
	adapter.		class.
MainActivity.java	The addItemActivity	More interested in	Consider
addItemActivity	method directly	the details of a class	migrating it to
Method	handles the logic for	other	AddItemActivity
	starting the	than the one it is in.	class
	AddItemActivity.		

4. Duplicated Code

Location	Description	Why is this a Problem?	Solution
Loading, Saving, and Editing methods (eg. LoadContacts(), LoadItems(), etc.)	They have basic purpose of reading files from streams and appending data to either a new or an existing file stream. However, the identical process of reading and writing is repeated multiple times within each method, differing only in the file involved.	Modifications to the storage system at a later stage of the project necessitate altering the storage implementation code across the entire project. This process is time-intensive and carries a risk of overlooking specific instances.	Creating a generic storage class capable of accommodating various object types and filenames, while also managing the process of reading and storing data to and from file streams.