Message Board Application Fix

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Issues Fixed and Solutions:

1. **NullPointerException in AddMessageActivity**:
   - **Issue**: The application crashed due to a `NullPointerException` when trying to set an `OnClickListener` on an uninitialized `ImageView`.
   - **Solution**: Added proper initialization of `ImageView` using `findViewById` and included null checks to prevent crashes.

2. **StorageException in Firebase Storage:**
   - **Issue**: The application encountered a `StorageException` with a 404 error, indicating the object did not exist at the specified location.
   - **Solution**: Verified the `Uri` used for uploading to Firebase Storage and ensured correct file paths. Added detailed logging to track file upload paths.

3. **NullPointerException in MessageActivity**:
   - **Issue**: The application crashed due to a `NullPointerException` when trying to access a `Serializable` object from the `Bundle`.
   - **Solution**: Added null checks to ensure the `Bundle` and `Serializable` object are not null before accessing them. Closed the activity gracefully if data is missing.

4. **Swipe-to-Delete Functionality**:
   - **Issue**: The application needed a way to delete messages using swipe gestures.
   - **Solution**: Implemented the `SwipeToDeleteCallback` class to handle swipe-to-delete actions. Integrated Firestore delete operations to remove messages from the database and the UI.

Firebase Configuration:

1. **Firebase Connection**:
   - Connected the application to Firebase, including Firestore, Crashlytics, and Storage.
   - Configured `google-services.json` and updated `build.gradle` files with necessary dependencies and plugins.

2. **Crashlytics Integration**:
   - Integrated Firebase Crashlytics to monitor and identify crashes within the application.
   - Used Crashlytics to identify and fix issues, ensuring a stable and reliable application.

[GitHub Repository](#)