**3. Difference Between Activity and Fragment Lifecycle**

| **Feature** | **Activity** | **Fragment** |
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| **Lifecycle Management** | Independent lifecycle | Depends on the hosting Activity |
| **Use Case** | Represents a full-screen UI | Represents a portion of UI |
| **Multiple Instances** | One activity at a time | Multiple fragments inside one activity |
| **Navigation** | Managed by Intent | Managed by FragmentManager |