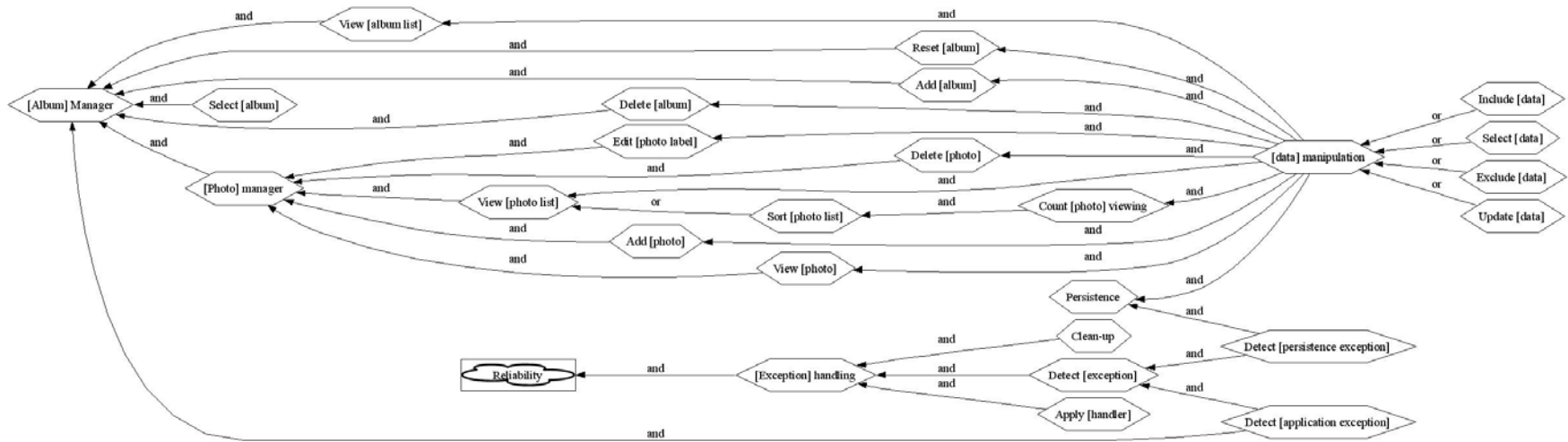
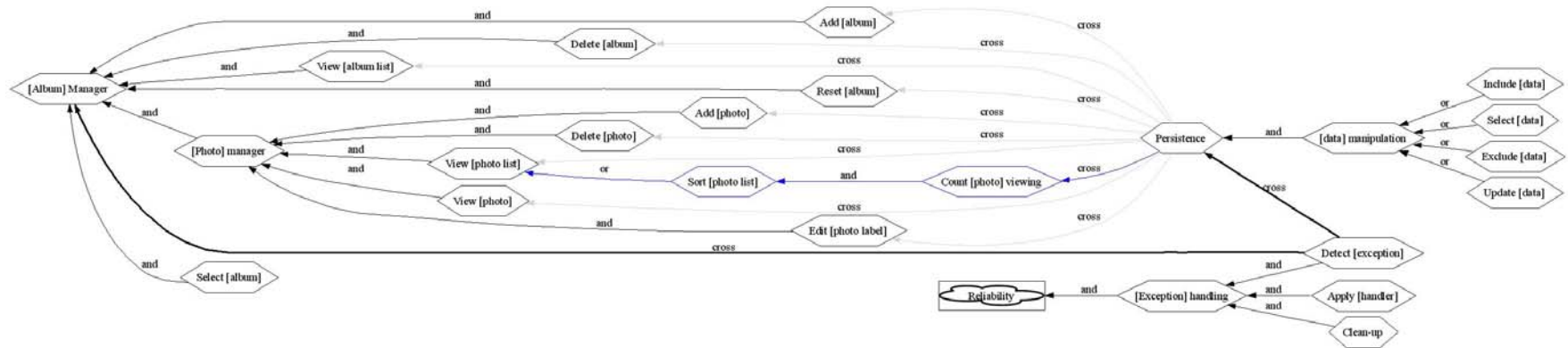


Expanded Goal Model (Release 2)



Shorten Goal Model (Release 2)



BNF (Release 2)

```
goal_model AlbumManagement (GM1) {
    task [Album] Manager (T1; and) {
        task Add [album] (T1.1; and) {}
        task Delete [album] (T1.6; and) {}
        task View [album list] (T1.2; and) {}
        task Select [album] (T1.3; and) {}
        task Reset [album] (T1.5; and) {}
        task_ref [Photo] manager (T1.4; and)
    }
}

goal_model PhotoManagement (GM3) {
    task [Photo] manager (T1.4; and) {
        task Add [photo] (T1.4.5; and) {}
        task Delete [photo] (T1.4.6; and) {}
        task View [photo list] (T1.4.9; and) {
            task Sort [photo list] (T1.4.9.1; or) {}
            task Count [photo] viewing (T1.4.12; and) {} }
        task View [photo] (T1.4.10; and) {}
        task Edit [photo label] (T1.4.11; and) {} }
}

goal_model Persistence (GM2) {
    task Persistence (T2; and) {
        task [data] manipulation (T2.1.2; and) {
            task Include [data] (T2.1.3.1; or) {}
            task Select [data] (T2.1.3.2; or) {}
            task Exclude [data] (T2.1.3.3; or) {}
            task Update [data] (T2.1.3.4; or) {} }
        crosscutting {
            source = (Persistence; T2)
            pointcut (make register operation; P2.1): include(Add.*; task; name) and
include(Delete.*; task; name) and
            include(Reset.*; task; name) and include(View.*; task; name) and
include(Edit.*; task; name) and include(Count.*; task; name)
            advice (around): P2.1 {
                task_ref [data] manipulation (T2.1.2; and)
            }
        }
    }
}

goal_model Reliability (GM5) {
    softgoal Reliability (S5.1; and) {
        task [Exception] handling (G5.2; and) {
            task Detect [exception] (T5.2.1; and) {}
            task Apply [handler] (T5.2.4; and) {}
            task Clean-up (T5.2.2; and) {} }
        crosscutting {
            source = (Detect [exception]; T5.2.1)
            pointcut (persistence; PC5.3): include(Persistence; T2)
            pointcut (application; PC5.2): include([Album] Manager; T1)
            intertype declaration (element): PC5.2 {
```

```
task Detect [application exception] (T5.2.1.4; and) { } }  
    intertype declaration (element): PC5.3 {  
task Detect [persistence exception] (T5.2.1.3; and) { } } }
```