

## Composition Rules

### CR\_Usability

```
<?xml version="1.0"?>
<Composition>
  <Requirement concern="Usability" id="all">
    <Constraint action="affect" operator="during">
      <Requirement concern="Performance" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
  </Requirement>
  <Requirement concern="Usability" id="all">
    <Constraint action="affect" operator="during">
      <Requirement concern="Query_Information" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
  </Requirement>
  <Requirement concern="Usability" id="all">
    <Constraint action="affect" operator="during">
      <Requirement concern="Register_Complaint" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
  </Requirement>
</Composition>
```

### CR\_Availability

```
<Composition>
  <Requirement concern="Availability" id="all">
    <Constraint action="affect" operator="during">
      <Requirement concern="Security" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
  </Requirement>
  <Requirement concern="Availability" id="all">
    <Constraint action="affect" operator="during">
      <Requirement concern="Persistence" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
  </Requirement>
</Composition>
```

### CR\_Performance

```
<?xml version="1.0"?>
<Composition>
  <Requirement concern="Performance" id="all">
```

```

    <Constraint action="affect" operator="during">
      <Requirement concern="Security" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
  </Requirement>
  <Requirement concern="Performance" id="all">
    <Constraint action="affect" operator="during">
      <Requirement concern="Persistence" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
  </Requirement>
</Composition>

```

### **CR\_Security**

```

<?xml version="1.0"?>
<Composition>
  <Requirement concern="Security" id="all">
    <Constraint action="affect" operator="during">
      <Requirement concern="Availability" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
  </Requirement>
  <Requirement concern="Security" id="all">
    <Constraint action="affect" operator="during">
      <Requirement concern="Performance" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
  </Requirement>
  <Requirement concern="Security" id="all">
    <Constraint action="affect" operator="during">
      <Requirement concern="Persistence" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
  </Requirement>
</Composition>

```

### **CR\_Persistence**

```

<?xml version="1.0"?>
<Composition>
  <Requirement concern="Persistence" id="all">
    <Constraint action="affect" operator="during">

```

```

        <Requirement concern="Availability" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
</Requirement>
<Requirement concern="Persistence" id="all">
    <Constraint action="affect" operator="during">
        <Requirement concern="Performance" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
</Requirement>
<Requirement concern="Persistence" id="all">
    <Constraint action="affect" operator="during">
        <Requirement concern="Security" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
</Requirement>
<Requirement concern="Persistence" id="all">
    <Constraint action="affect" operator="during">
        <Requirement concern="Query_Information" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
</Requirement>
<Requirement concern="Persistence" id="all">
    <Constraint action="affect" operator="during">
        <Requirement concern="Register_Complaint" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
</Requirement>
</Composition>

```

### **CR\_Query\_Information**

```

<?xml version="1.0"?>
<Composition>
    <Requirement concern="Query_Information" id="all">
        <Constraint action="is affected" operator="during">
            <Requirement concern="Usability" id="all"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>

    <Requirement concern="Query_Information" id="all">
        <Constraint action="affect" operator="during">
            <Requirement concern="Persistence" id="all"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>

```

</Composition>

### CR\_Register\_Tables

<?xml version="1.0"?>

<Composition>

<Requirement concern="Register\_Tables" id="1" children="include">

<Constraint action="provide" operator="on">

<Requirement concern="Persistence" id="1" children="include"/>

</Constraint>

<Outcome action="fullfiled"/>

</Requirement>

<Requirement concern="Register\_Tables" id="1" children="include">

<Constraint action="provide" operator="on">

<Requirement concern="Security" id="2.1"/>

<Requirement concern="Security" id="2.2"/>

</Constraint>

<Outcome action="fullfiled"/>

</Requirement>

</Composition>

### CR\_Update\_Complaint

<?xml version="1.0"?>

<Composition>

<Requirement concern="Update\_Complaint" id="1.1">

<Constraint action="provide" operator="on">

<Requirement concern="Persistence" id="1.1"/>

</Constraint>

<Outcome action="fullfiled"/>

</Requirement>

<Requirement concern="Update\_Complaint" id="1.2">

<Constraint action="provide" operator="on">

<Requirement concern="Persistence" id="1.1"/>

</Constraint>

<Outcome action="fullfiled"/>

</Requirement>

<Requirement concern="Update\_Complaint" id="1.4">

<Constraint action="provide" operator="on">

<Requirement concern="Error\_and\_Exception\_Handling" id="2.2"/>

</Constraint>

<Outcome action="fullfiled"/>

</Requirement>

<Requirement concern="Update\_Complaint" id="1" children="include">

<Constraint action="provide" operator="on">

<Requirement concern="Security" id="2.1"/>

<Requirement concern="Security" id="2.2"/>

</Constraint>

```

        <Outcome action="fullfiled"/>
    </Requirement>
</Composition>
CR_Register_New_Employee

<?xml version="1.0"?>
<Composition>
    <Requirement concern="Register_New_Employee" id="1" children="include">
        <Constraint action="provide" operator="on">
            <Requirement concern="Persistence" id="1.2" children="include"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
    <Requirement concern="Register_New_Employee" id="1.1" children="include">
        <Constraint action="provide" operator="on">
            <Requirement concern="Error_and_Exception_Handling" id="2.1"
            children="include"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
    <Requirement concern="Register_New_Employee" id="1" children="include">
        <Constraint action="provide" operator="on">
            <Requirement concern="Security" id="2.1"/>
            <Requirement concern="Security" id="2.2"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
</Composition>
CR_Update_Employee

```

```

<?xml version="1.0"?>
<Composition>
    <Requirement concern="Update_Employee" id="1" children="include">
        <Constraint action="provide" operator="on">
            <Requirement concern="Persistence" id="1.2" children="include"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
    <Requirement concern="Update_Employee" id="1.2" children="include">
        <Constraint action="provide" operator="on">
            <Requirement concern="Error_and_Exception_Handling" id="2.3"
            children="include"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
    <Requirement concern="Update_Employee" id="1" children="include">
        <Constraint action="provide" operator="on">
            <Requirement concern="Security" id="2.1"/>

```

```

        <Requirement concern="Security" id="2.2"/>
    </Constraint>
    <Outcome action="fullfiled"/>
</Requirement>
</Composition>
CR_Update_Health_Unit

<?xml version="1.0"?>
<Composition>
    <Requirement concern="Update_Health_Unit" id="1.2">
        <Constraint action="provide" operator="on">
            <Requirement concern="Persistence" id="1.3"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
    <Requirement concern="Update_Health_Unit" id="1.3">
        <Constraint action="provide" operator="on">
            <Requirement concern="Error_and_Exception_Handling" id="2.4"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
    <Requirement concern="Update_Health_Unit" id="1" children="include">
        <Constraint action="provide" operator="on">
            <Requirement concern="Security" id="2.1"/>
            <Requirement concern="Security" id="2.2"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
</Composition>

```

### **CR\_Change\_Logged\_Employee**

```

<?xml version="1.0"?>
<Composition>
    <Requirement concern="Change_Logged_Employee" id="1" children="include">
        <Constraint action="provide" operator="on">
            <Requirement concern="Security" id="2.1"/>
            <Requirement concern="Security" id="2.2"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
</Composition>

```

### **CR\_Register\_Complaint**

```

<?xml version="1.0"?>
<Composition>
    <Requirement concern="Register_Complaint" id="all">
        <Constraint action="affect" operator="during">

```

```

        <Requirement concern="Usability" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
</Requirement>
<Requirement concern="Register_Complaint" id="all">
    <Constraint action="affect" operator="during">
        <Requirement concern="Persistence" id="all"/>
    </Constraint>
    <Outcome action="fullfiled"/>
</Requirement>
<Requirement concern="Register_Complaint" id="4">
    <Constraint action="provide" operator="during">
        <Requirement concern="Error_and_Exception_Handling" id="2.2"/>
    </Constraint>
    <Outcome action="fullfiled"/>
</Requirement>
</Composition>

```

#### CR\_Error\_and\_Exception\_Handling

```

<?xml version="1.0"?>
<Composition>
    <Requirement concern=" Error_and_Exception_Handling " id="2.1">
        <Constraint action="affect" operator="during">
            <Requirement concern="Register_New_Employee" id="1.1"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
    <Requirement concern=" Error_and_Exception_Handling " id="2.2">
        <Constraint action="affect" operator="during">
            <Requirement concern="Register_Complaint" id="4"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
    <Requirement concern=" Error_and_Exception_Handling " id="2.2">
        <Constraint action="affect" operator="during">
            <Requirement concern="Update_Complaint" id="1.4"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
    <Requirement concern=" Error_and_Exception_Handling " id="2.3">
        <Constraint action="affect" operator="during">
            <Requirement concern="Update_Employee" id="2.2"/>
        </Constraint>
        <Outcome action="fullfiled"/>
    </Requirement>
    <Requirement concern=" Error_and_Exception_Handling " id="2.4">

```

```
<Constraint action="affect" operator="during">  
  <Requirement concern="Update_HealthUnit" id="1.3"/>  
</Constraint>  
<Outcome action="fullfiled"/>  
</Requirement>  
</Composition>
```