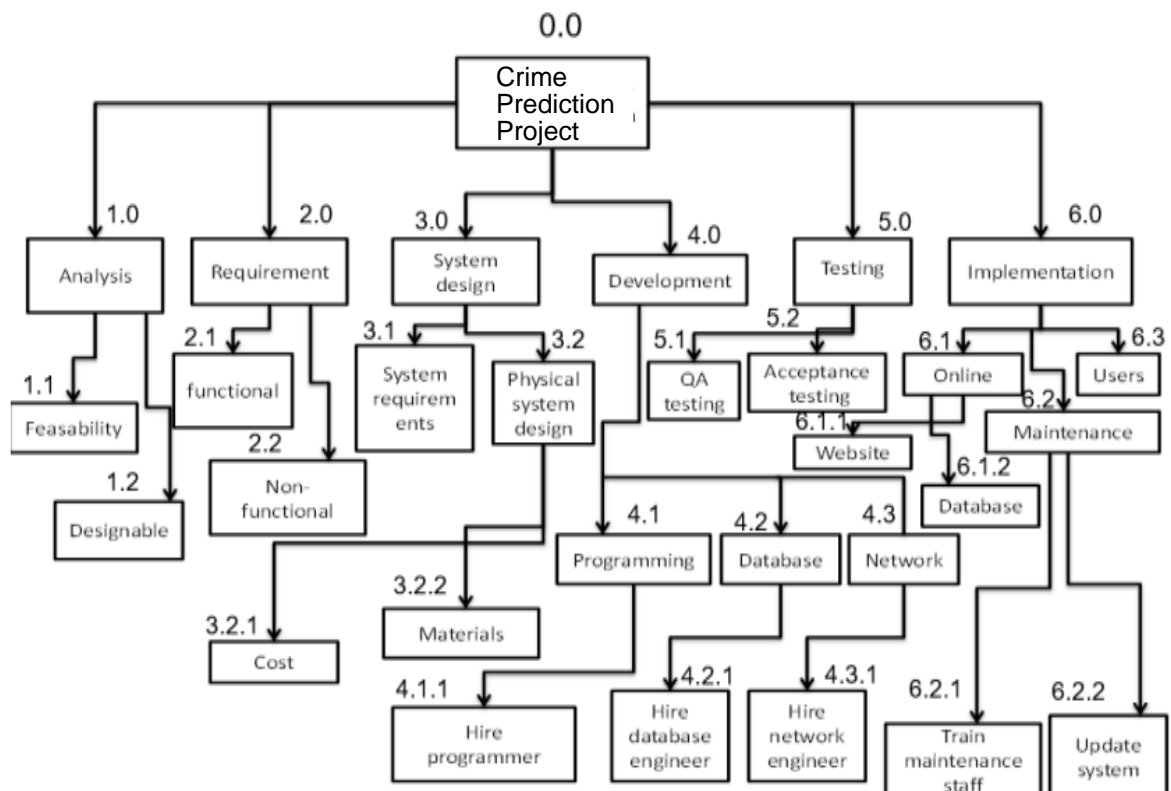


## 5.1 PROJECT EFFORT BASED ON RESOURCE

### 5.1.1 WORK BREAKDOWN STRUCTURE:

The work breakdown structure of the project is given below:



### **5.1.2 RISK ANALYSIS:**

#### **1. Scope creep**

Scope risk, also known as scope creep, occurs when the initial project objectives aren't well-defined. It's important to communicate your project roadmap with stakeholders from the beginning and hold firm to those parameters. If you don't communicate your project scope effectively, stakeholders may try to change requirements mid-project.

#### **2. High costs**

Cost risk occurs when your project goes over the budget you initially set. Cost risk can occur because of unrealistic or lack of detailed budgeting in the project planning phase. For example, you may feel confident that your project will be completed under-budget. However, creating a detailed list of every project element and what they cost can help you anticipate project needs.

#### **3. Time crunch**

Time risk, also known as project schedule risk, is the risk that tasks in your project will take longer than expected. Delayed timelines might impact other things like your budget, delivery date, or overall performance. This is a common risk that you may run into as project manager. When you're not doing the work yourself across lots of moving pieces, it's easy to underestimate the time it'll take team members to complete a project during the initial planning phase.

#### 4. Stretched resources

Resource risk occurs if you don't have enough resources to complete the project. Resources may include time, skills, money, or tools. As a project manager, you're responsible for the procurement of resources for your team and communicating with your team about the status of resources. Resource allocation should happen early in the project planning process, typically 1-2 months before project execution, depending on project size.

#### 5. Operational changes

Operational risk involves changes in company or team processes, like an unexpected shift in team roles, changes in management, or new processes that your team must adjust to. These things can create distractions, require adjustments in workflows, and may impact project timelines.

#### 6. Lack of clarity

Lack of clarity may come in the form of miscommunication from stakeholders, vague project scopes, or unclear deadlines. The result can be a lack of visibility due to siloed work, going over budget, falling behind project deadlines, changing project requirements, having to pivot project direction, or disappointing project outcomes.

#### Risks in crime detection

The clearance rate is often used as an indicator of the risk of detection, in spite of the fact that these are different matters. This suggests a method to make estimates of the risk of detection based on information from the crime statistics. The risk of detection is expressed as a function of the dark figure. It estimates of the risk are given for drunken driving, residential burglary, and assault between strangers. These estimates are followed up with some calculations concerning the impact of crime activity level on the risk of getting caught. One major conclusion of the findings is that the risk of detection varies very moderately with the dark figure.