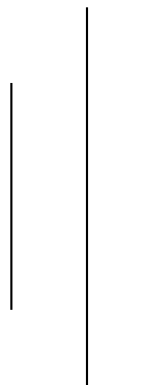




**TRIBHUVAN UNIVERSITY  
INSTITUTE OF ENGINEERING  
PULCHOWK CAMPUS**

**REPORT  
DATA FLOW DIGRAM**



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# 1 Investment Advisory Management System

A customer arrives at an investment consultant and makes an initial enquiry their investment requirements. The consultant records and files the requirements. The consultant checks the product files. The consultant proposes a number of financial products to the customer for selection. The customer then either selects one of the products. The consultant records the decision in the requirements file.

## 1.1 LEVEL-0 DFD:

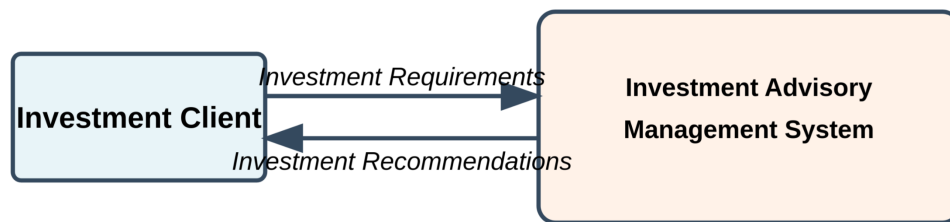


Figure 1: DFD level 0

## 1.2 LEVEL-1 DFD:

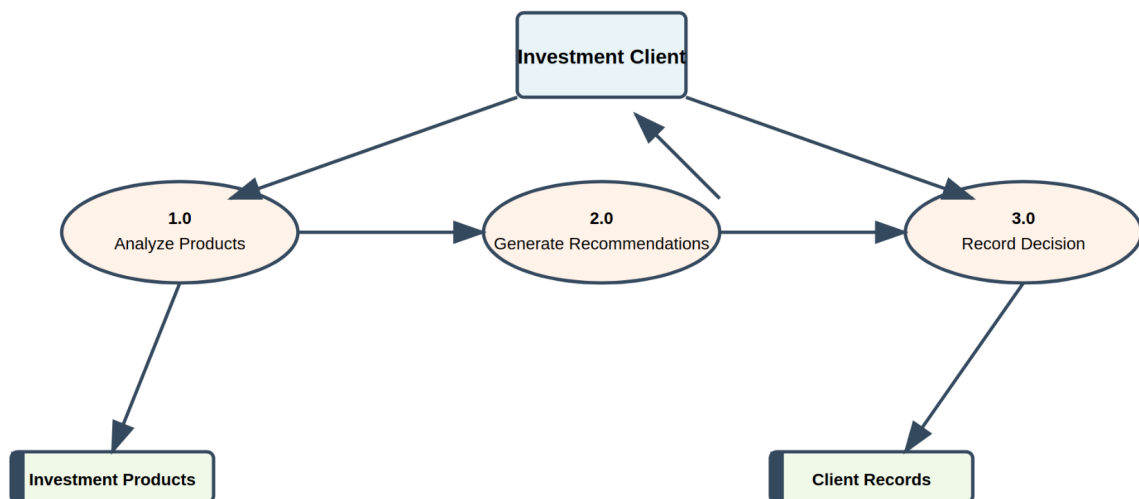


Figure 2: DFD level 1

## 2 Research Data Management System

The purpose of the PLANT SCIENCE INFORMATION SYSTEM is to document the study results from a wide variety of experiments performed on selected plants. A study is initiated by a researcher who submits a RESEARCH PROPOSAL. After a panel review by a group of scientists, the researcher is required to submit a RESEARCH PLAN AND SCHEDULE. An FDA RESEARCH PERMIT REQUEST is sent to the Food and Drug Administration, which sends back a RESEARCH PERMIT. As the experiment progresses, the researcher fills out and submits EXPERIMENT NOTES. At the conclusion of the project, the researcher's results are reported on an EXPERIMENT HISTOGRAM.

### 2.1 LEVEL-0 DFD:

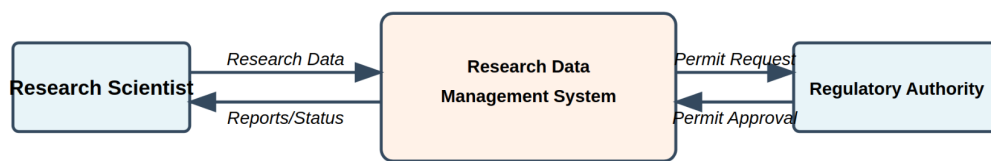


Figure 3: DFD level 0

### 2.2 LEVEL-1 DFD:

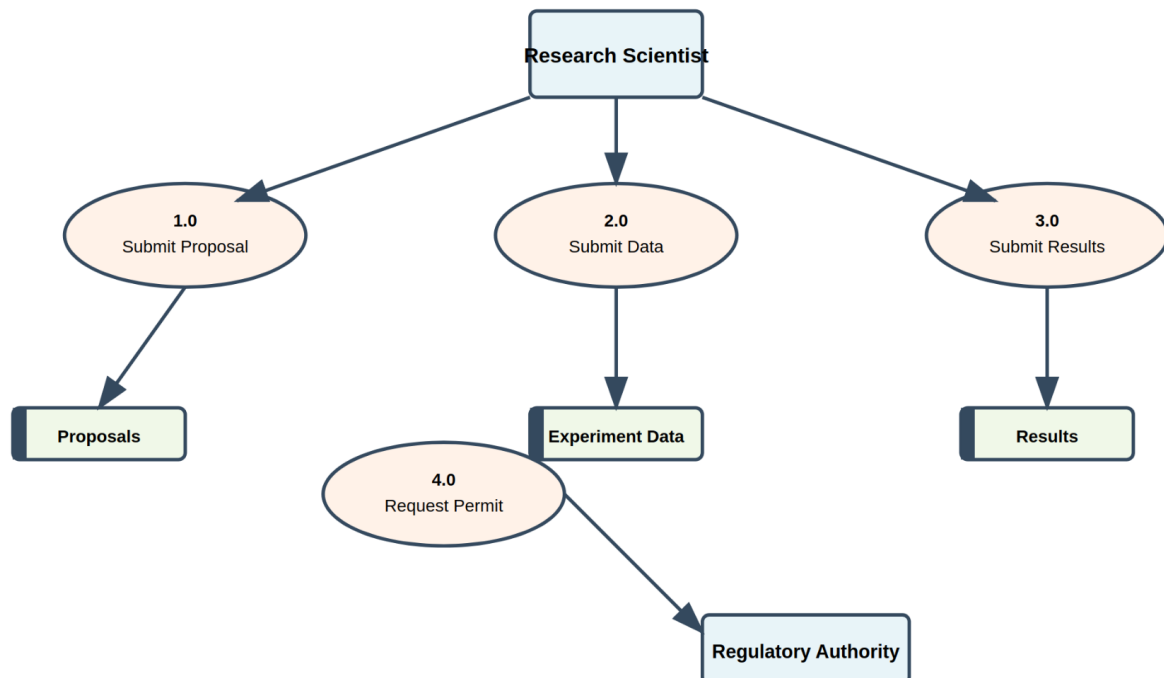


Figure 4: DFD level 1

### 3 Vehicle Registration management system

Draw up a DFD of a very simple Maltese car number plate registration system storing registered number plates on a database. Your system should offer the following functionality:

1. Register (add) a number
2. Retire (delete) a previously registered number
3. Check number for validity
4. Check numbers for uniqueness against a database of assigned numbers
5. Confirm valid registration
6. Issue relevant error messages (“Invalid”, “non-existent”, or “already assigned”)

#### 3.1 LEVEL-0 DFD:



Figure 5: DFD level 0

#### 3.2 LEVEL-1 DFD:

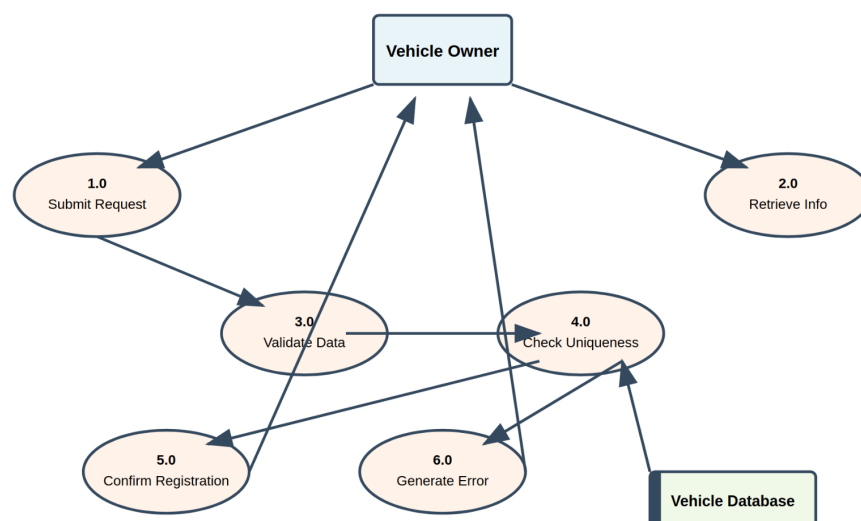


Figure 6: DFD level 1