

**Dodgy Insurance Company of Australia Pty Ltd**

**Oliver Lenehan**

**Dodgy Car Insurance**

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**ANALYSIS: LOOKUPS (IF SO, LINKED TO?) OR USER QUOTES**

## Notes

* Default Admin Account (User: **admin** Pass: **password**)
* Default User Account (User: **user** Pass: **password**)
* Worksheet “Login”, Cell “A1”: Debug Value -> “debug”

# **Requirements Document**

## Purpose

The purpose of the system is to provide an Insurance Quote System that can calculate quote costs for insurance claims and provide a printable letter to be delivered to the claimant.

## Customer Needs

The customer requires the following to be implemented within the system:

* Branding,
* Ability to calculate premiums,
* Logins - User and Admin level authentication,
* Main menu screen (links to other pages),
* Quote entry screen (collect details and relevant information),
* Quote preview screen (ready to be printed),
* Ability to print quotations,
* Administrator-only page for modifying lookup values,
  + Amend all Risk+Admin data, lock system data.
* Administrator-only page for analysis graphs and charts,
  + Formatted for printing,
  + Two different chart types from two different fields,
  + Show tables used to derive charts,
  + Justifications in requirements document.
* Administrator-only page for viewing, modifying and updating stored data,
  + New row for each quote.
* Quotes need to collect car type, engine sizes, car make and model, gender, date of birth, age, location, full address, quote date, payment frequency.

## Success Criteria

**Requirements (Success Criteria)**

**Functional**

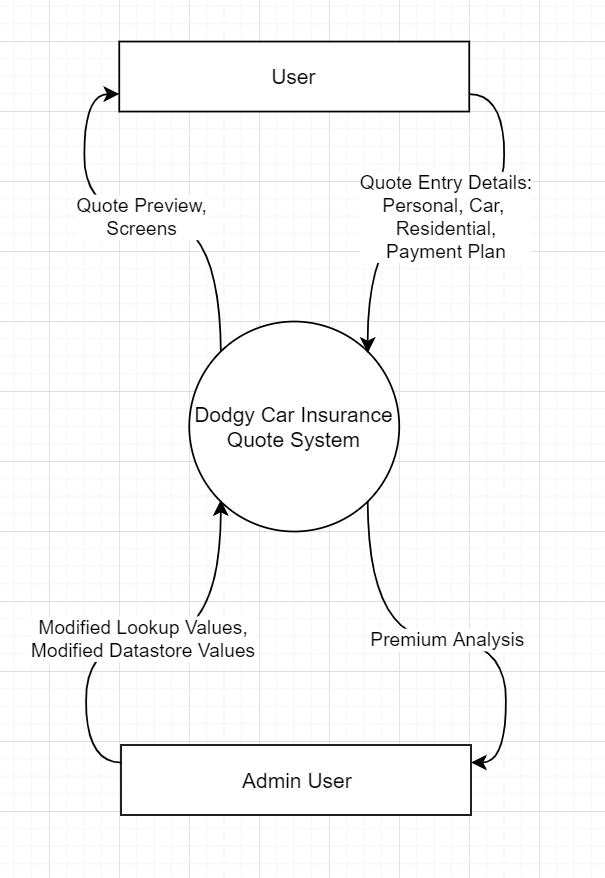
* Store information about clients
* Provide reports
* Calculate Costs
* Analysis and presentation of graphs
* Algorithms + Data-Structures

**Non-Functional**

* Design of the system
* Accuracy of data
* Data access / privacy

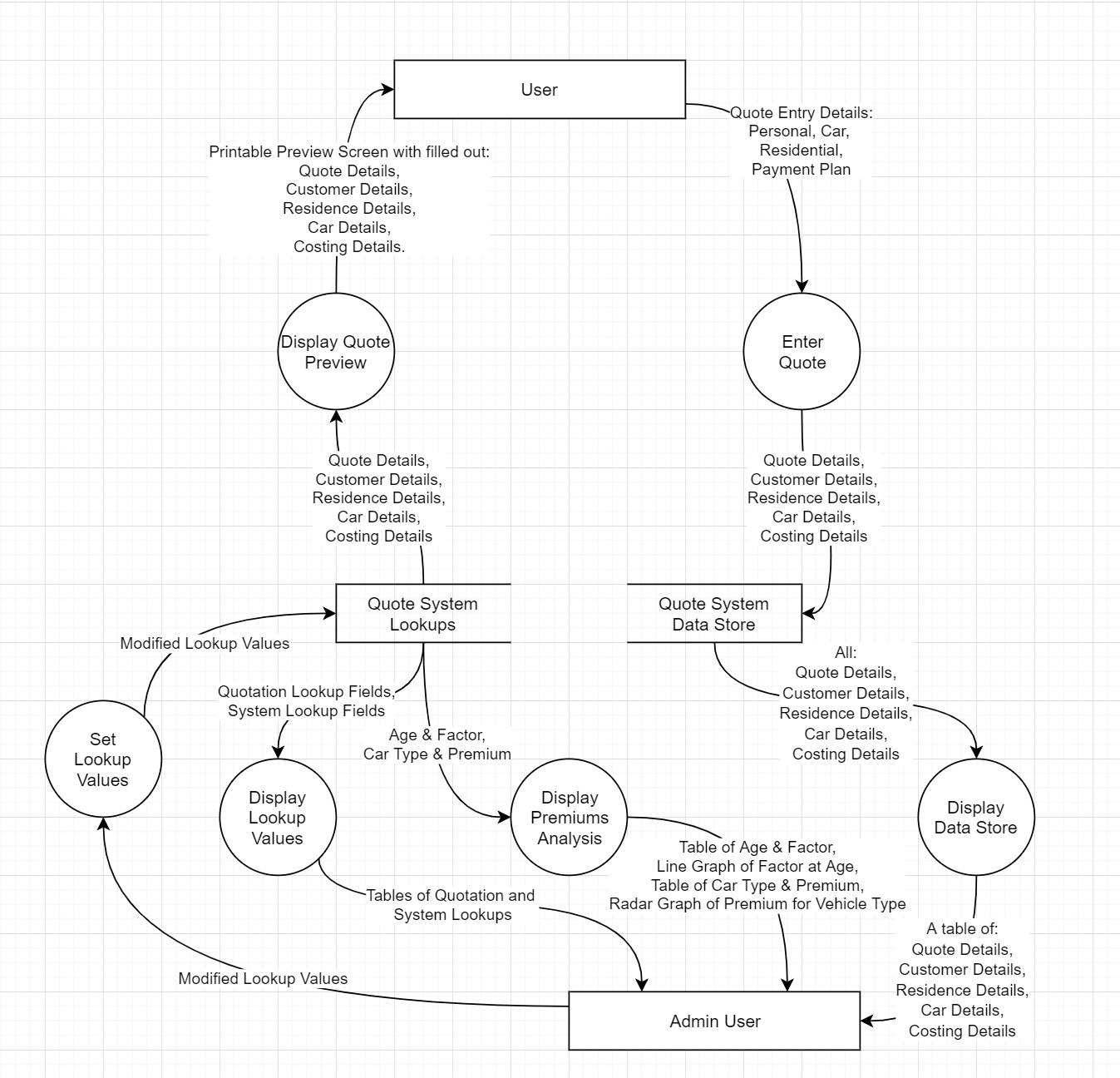
Requirements Document - Continued

## Context Diagram



Requirements Document - Continued

## Data Flow Diagram



## Social Issues

**Ethical Issues**

Requirements Document - Continued

Privacy

Discrimination

Copyright Laws

Safety

Reliability of Data

**Social Issues**

Security

Ergonomics

Accessibility

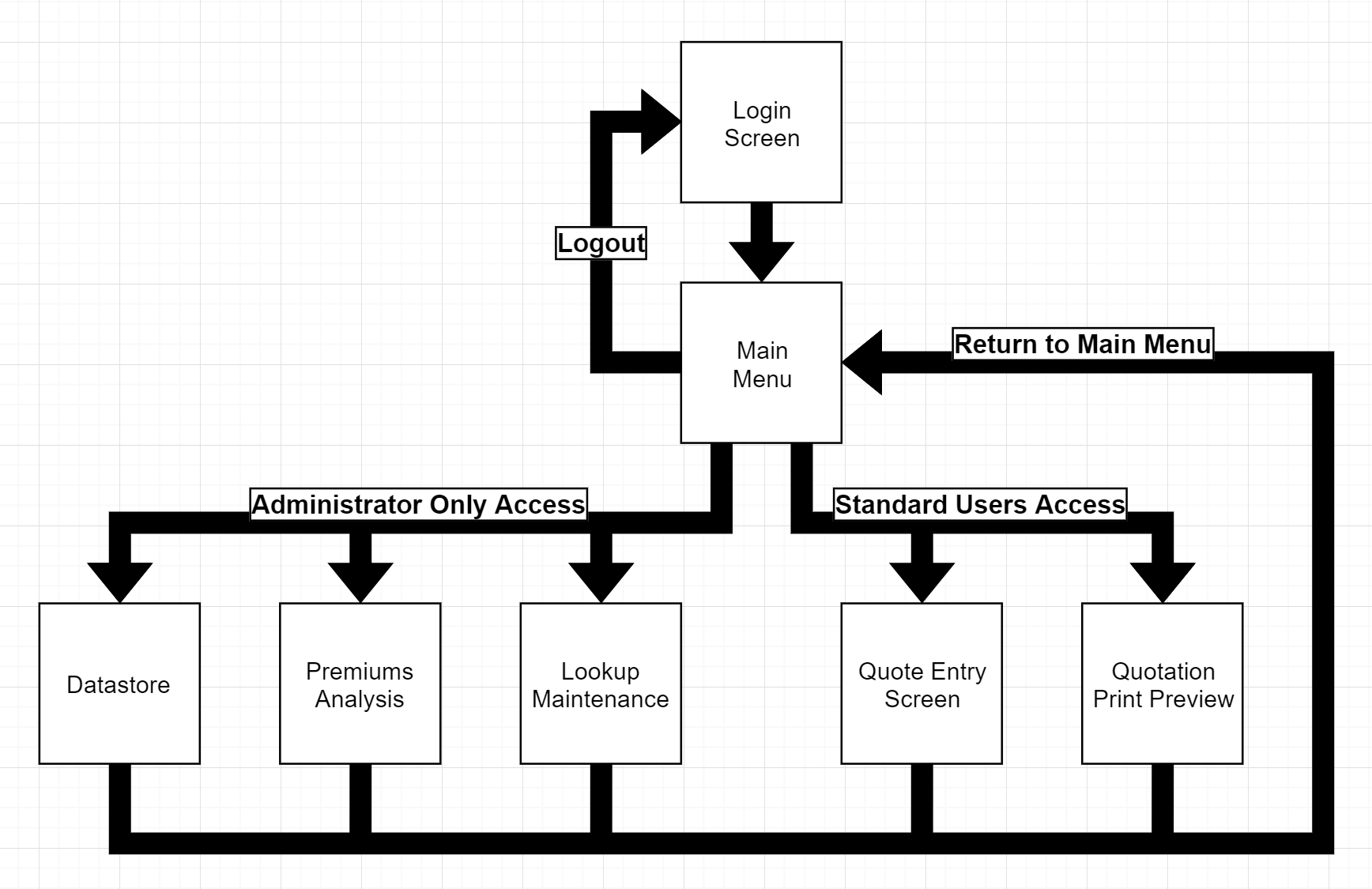
Personal

Economic

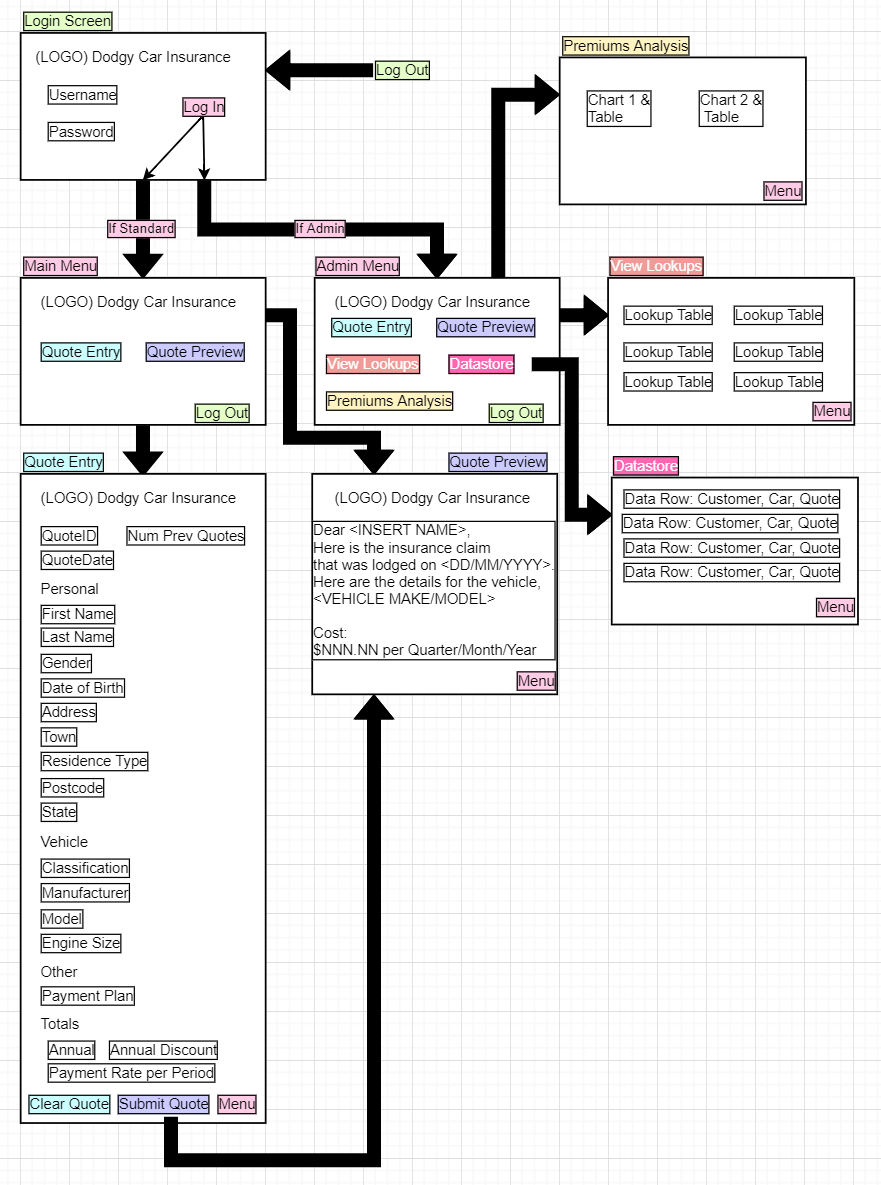
## Ethical Issues

# **Design Document**

## Site Map



## Storyboards



Design Document - Continued

## Data Dictionaries

Design Document - Continued

### Customer Data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data Type | Format | Description | Example | Validation |
| First Name | Text |  | The applicant’s first name | John |  |
| Last Name | Text |  | The applicant’s last name. | Smith |  |
| **Gender** | Text |  | The gender of the applicant. **Used as a factor.** | Male | List of available genders. (Male, Female) |
| Date of Birth | Date | DD/MM/YYYY | The date of the applicant, proving their age. | 12/3/1945 | Greater than or equal to 18 years ago. |
| Street Address | Text |  | The street address of the applicant without other location details. | 1 Main Street |  |
| Town | Text |  | The town / suburb or locality of the applicant‘s primary residence. | Lithgow |  |
| **Residence Type** | Text |  | The type of location of the primary residence of the applicant. **Used as a factor.** | Semi-Rural | List of available types (Urban, Suburban, Semi-Rural, Rural, Regional) |
| Postcode | Text | NNNN | The postcode of the applicant’s primary residence. | 2790 |  |
| State / Territory | Text |  | The state of the primary residence of the applicant. | NSW | List of available states / territories (NSW, VIC, QLD, WA, NT, TAS, ACT, SA). |

### Quote Data

Design Document - Continued

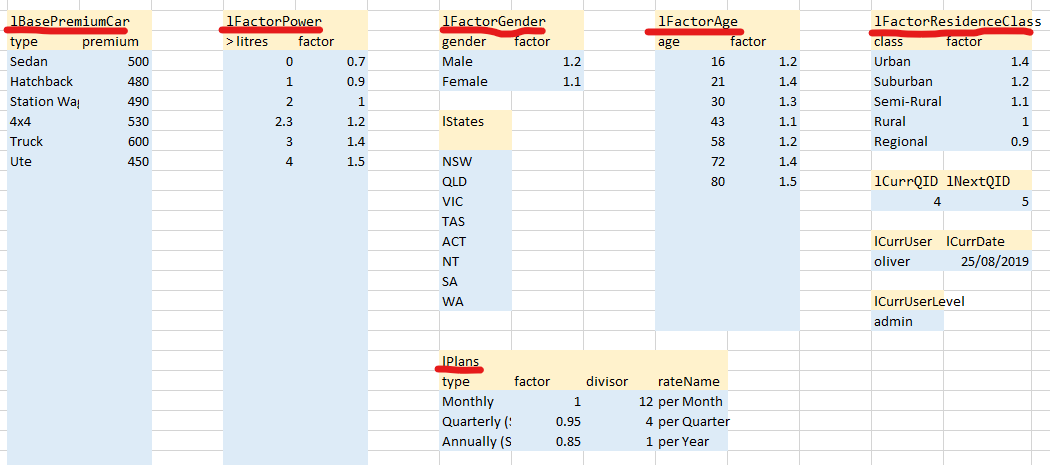
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data Type | Format | Description | Example | Validation |
| **Payment Plan** | Text |  | Are payments to be made monthly, quarterly or annually. **Used as a discount factor.** | Monthly | List of available choices. (Quarterly, Annually, Monthly) |
| Quote ID | Number | Integer | Unique identifier for each quote. | 324 | Automatic |
| Date of Quote |  | DD/MM/YYYY | Date quote was lodged. | 1/6/2019 | Automatic |
| Number of Previous Quotes | Number | Integer | Num. quote applications previously lodged. | 2 | Automatic |
| Calculated **Annual Cost** (As Is) | Number. Formula = (car type premium) \* (engine size factor) \* (gender factor) \* (age factor) \* (residence type factor) |  | The annual cost without discounts. | $600.20  NEED REAL NUMBERS |  |
| Calculated **Annual Cost (Discounted)** | Number.  (Annual Cost) \* (Payment Plan Discount Factor) | Currency | Total annual cost with discounts applied. (Used to keep quote rate consistent even if factors change). | $584.23  NEED REAL NUMBERS |  |
| Calculated Cost per Period (Discounted) | Number. Formula = (Discounted Annual Cost) / (1=annual or 4=quarterly or 12=monthly) |  | The cost per period that was specified in the quote. | $48.68  NEED REAL NUMBERS |  |

Requirements Document - Continued

### Car Data

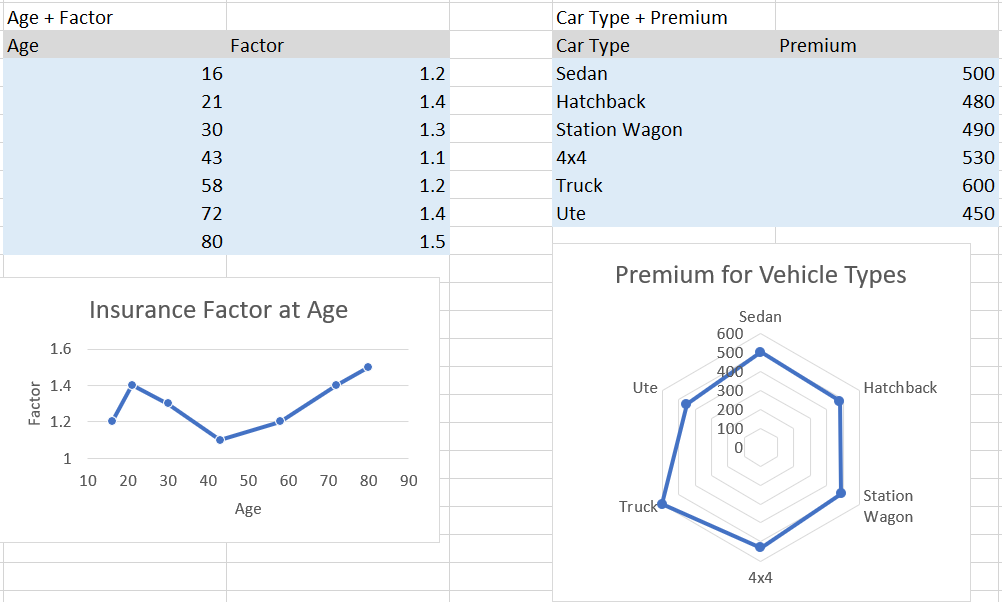
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data Type | Format | Description | Example | Validation |
| **Classification** | Text |  | The type of vehicle for which a claim is being lodged. **Used as a factor.** | Ute | List of available options (Sedan, Hatchback, Station-Wagon, 4x4, Truck, Ute) |
| Manufacturer | Text |  | The manufacturer of the vehicle for which a claim is being lodged. | Toyota |  |
| Model | Text |  | The model of the vehicle for which a claim is being lodged. | Hilux |  |
| **Engine Size** | Number | Decimal | The size of the engine of the vehicle for which a claim is being lodged. **Used as a factor.** | 2.5 | Greater than or equal to 0. |

## Risk Assessment Data Design



## Justification for Premiums Analysis

Requirements Document - Continued

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The selected fields allow the administrator of the system to see where the biggest potential is for earning money or easily shape the graphs to change the weighting a particular group has.

### Age

### Vehicle Types

# **Evaluation Document**