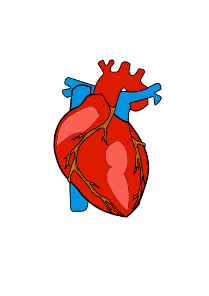
**Low Level Design (LLD)**

**Excel Case Study Analysis**



**Revision Number - 1.2**

**Last Date of Revision - 18/08/2023**

**Rajat Sharma**

# Document Control

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** |  | **Version** | **Description** | **Author** |
| 16/08/2023 | 1.0 |  | Introduction,  Problem Statement | Rajat Sharma |
| 17/08/2023 | 1.1 |  | Dataset Information,  Architecture  Description | Rajat Sharma |
| 18/08/2023 | 1.2 |  | Final Revision | Rajat Sharma |

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# 1. Introduction

## 1.1 What is Low Level Design Document?

The goal of the Low-level design document (LLDD) is to give the internal logic design of the actual program code for the Heart Disease Diagnostic Analysis dashboard. LLDD describes the class diagrams with the methods and relations between classes and programs specs. It describes the modules so that the programmer can directly code the program from the document.

**1.2 What is Scope?**

Low-level design (LLD) is a component-level design process that follows a step by-step refinement process. The process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the data organization may be defined during requirement analysis and then refined during data design work.

## 1.3 Project Introduction

Analytics allow you to quantify the effects of making a change to your strategy, and

that's invaluable to the process of improving and optimizing campaigns. The biggest

benefit of utilizing proper analytics is being able to identify strengths and weaknesses.

# 2. Problem Statement

Problem statements are mentioned along with the datasets in the given excel sheets.

<https://drive.google.com/drive/folders/1VrH6EhC7c_KTZuTJcsp900X3l2h1mZiV>

● Create a 3-dimensional column chart comparing sales data for men and women,

but omitting BMWs

● Create a chart to compare the favourite films data for 15-25 year old only (be

careful not to include any unnecessary blanks rows or columns in your selected

data).

● Create a chart which shows the top 6 countries and their medal hauls

Format this chart so that it is a pie chart, with the Barbarella slice "exploded" and

each segment labelled:

● Select the necessary ranges of data to create a 3-D cone chart showing the City

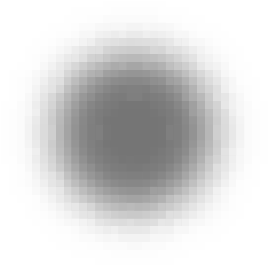
and the Population

# 3. Dataset Information

The Dataset was taken from iNeuron’s Provided Project Description Document.

<https://drive.google.com/drive/folders/1VrH6EhC7c_KTZuTJcsp900X3l2h1mZiV>

# 4. Architecture



Raw Data



Collection



Data



Pre



-



Processing



Data Cleaning



Exploratory Data



Analysis



EDA



)



(



Modelling



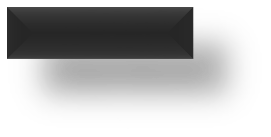
Deployment



R



eporting



Real World



## 4.1 Architecture Description

1. **Raw Data Collection** The Dataset was taken from iNeuron’s Provided Project Description Document.

<https://drive.google.com/drive/folders/1VrH6EhC7c_KTZuTJcsp900X3l2h1mZiV>

### 2. Data Pre-Processing

Before building any model, it is crucial to perform data pre-processing to feed the correct data to the model to learn and predict. Model performance depends on the quality of data feeded to the model to train.

This Process includes-

1. Handling Null/Missing Values
2. Handling Skewed Data
3. Outliers Detection and Removal

### 3. Data Cleaning

Data cleaning is the process of fixing or removing incorrect, corrupted, incorrectly formatted, duplicate, or incomplete data within a dataset.

1. Remove duplicate or irrelevant observations
2. Filter unwanted outliers
3. Renaming required attributes

### 4. Exploratory Data Analysis (EDA)

Exploratory Data Analysis refers to the critical process of performing initial investigations on data to discover patterns, spot anomalies, test hypothesis and to check assumptions with the help of summary statistics and graphical representations.

### 5. Reporting

Reporting is a most important and underrated skill of a data analytics field. Because being a Data Analyst you should be good in easy and self-explanatory report because your model will be used by many stakeholders who are not from technical background.

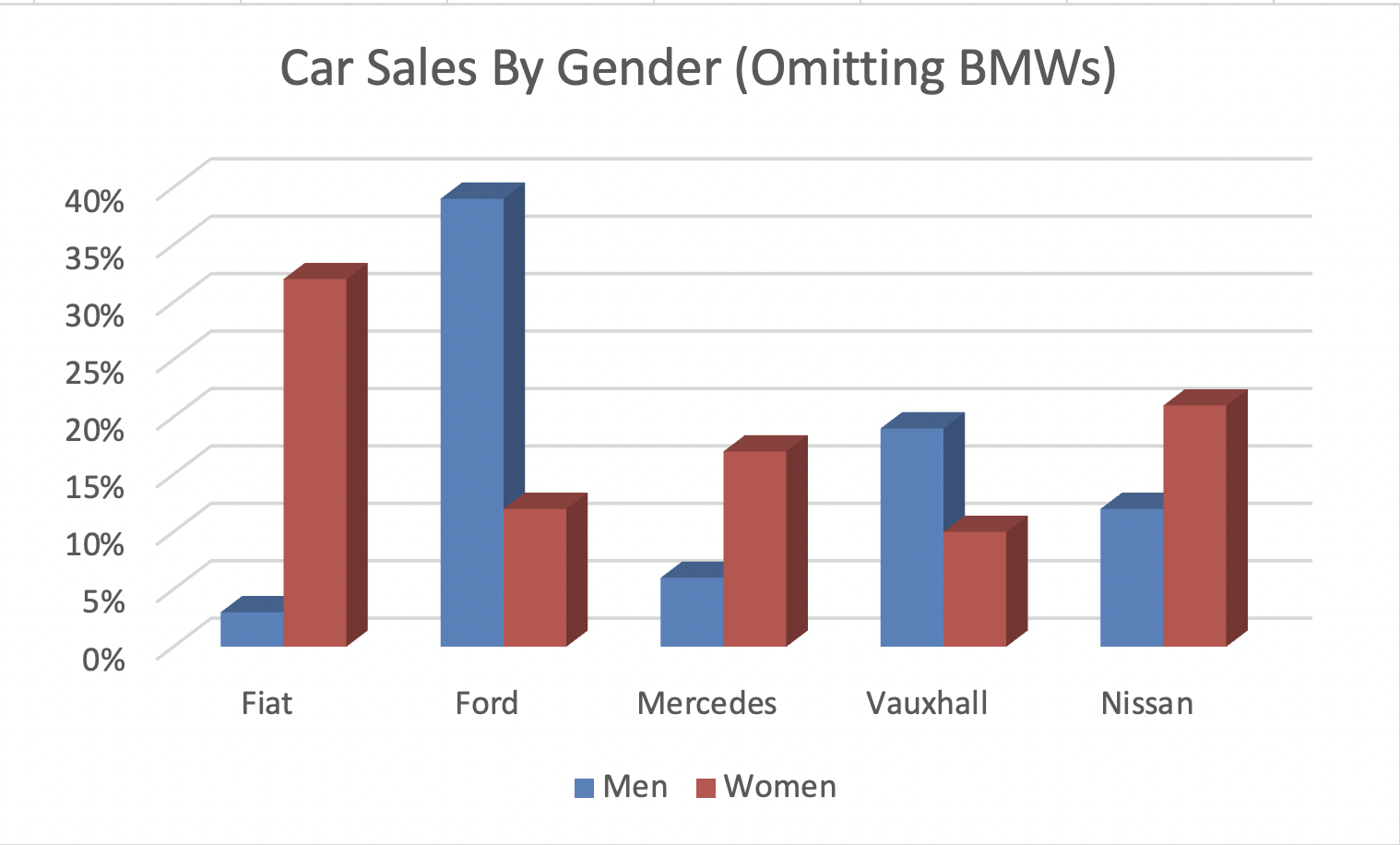
1. High Level Design Document (HLD)
2. Low Level Design Document (LLD)
3. Architecture
4. Wireframe
5. Detailed Project Report
6. Power Point Presentation

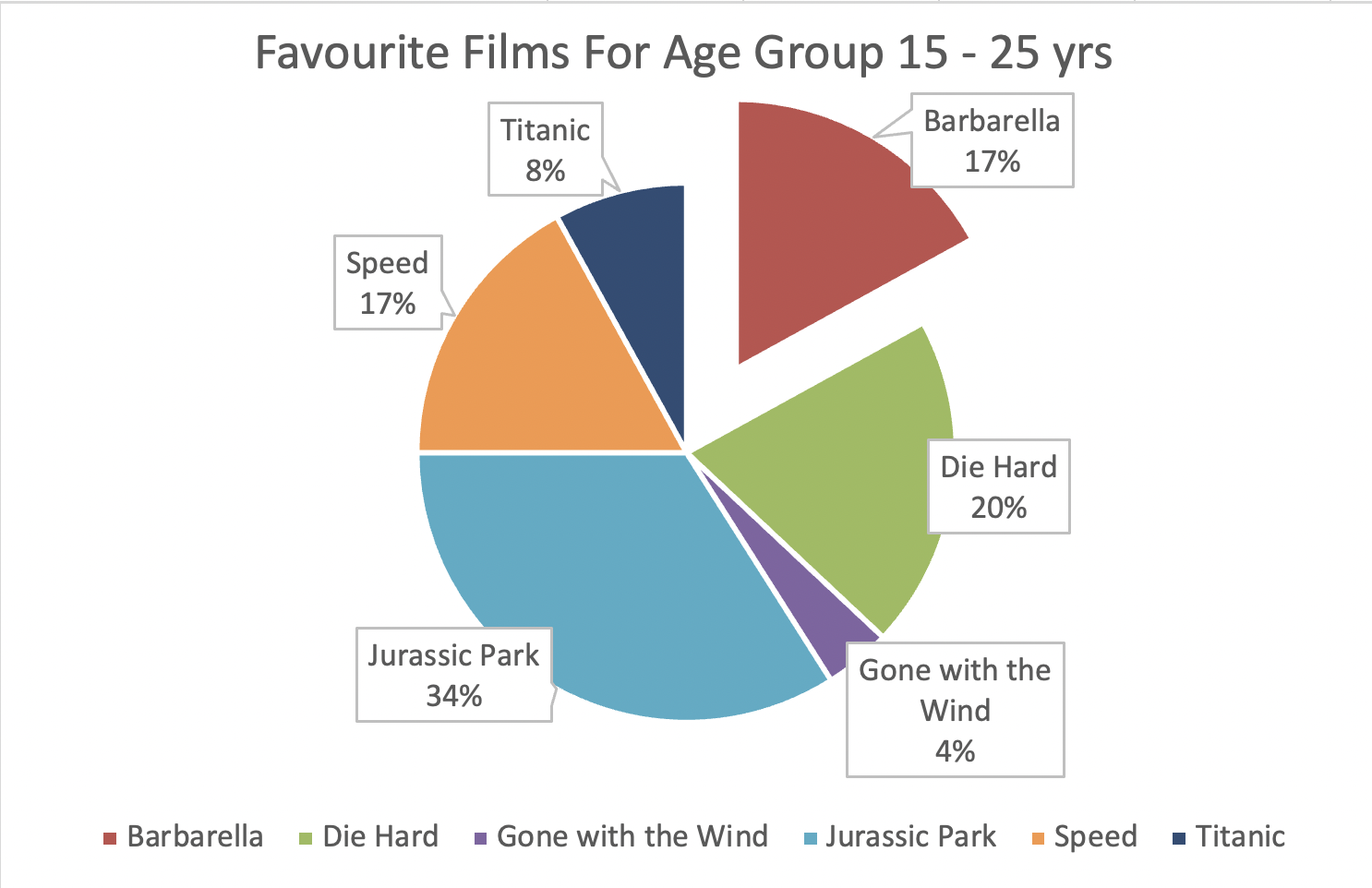
### 6. Modelling

Data Modelling is the process of analysing the data objects and their relationship to the other objects. It is used to analyse the data requirements that are required for the business processes. The data models are created for the data to be stored in a database. The Data Model's main focus is on what data is needed and how we have to organize data rather than what operations we have to perform.

### 7. Deployment

Final Excel Charts





A picture containing chart

Description automatically generated

Chart, line chart

Description automatically generated

Chart, bar chart

Description automatically generated

Chart

Description automatically generated