# PERSONAL PORTFOLIO

## Sprint 2 Contributions

Group 118

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https://github.com/ZacAtkinson/IFB299

# Artefact 1 – Create Car Classifications

The primary task in Sprint 2 was to enable users to search for cars based on the type of driving they are most suitable for. Therefore, an extra field was required for the cars table, which was populated by manually analysing the car's engine size, power output and body type to determine what type of driving it was designed for. Below is a table showing the classifications used with a small sample of the fleet results.

You searched for: **offroad**

Found 20 orders for **offroad**.

| Make | Model | Series | Year | Transmission | Seating Capacity |
|---|---|---|---|---|---|
| LAND ROVER | DISCOVERY 3 | HSE | 2006 | 6A | 7 |
| LAND ROVER | DISCOVERY | Tdi 4x4 | 1996 | 4A4x4 | 5 |
| LAND ROVER | FREELANDER | XEi 4x4 | 2000 | 5M4x4 | 5 |

You searched for: **long distance**

Found 41 orders for **long distance**.

| Make | Model | Series | Year | Transmission | Seating Capacity |
|---|---|---|---|---|---|
| BMW | 3 | E91 23i TOURING | 2006 | 6AS | 5 |
| BMW | 3 | E90 20i EXECUTIVE | 2005 | 6AS | 5 |
| BMW | 3 | E46 20i SPORT | 2005 | 5AS | 5 |

You searched for: **liesure**

Found 30 orders for **liesure**.

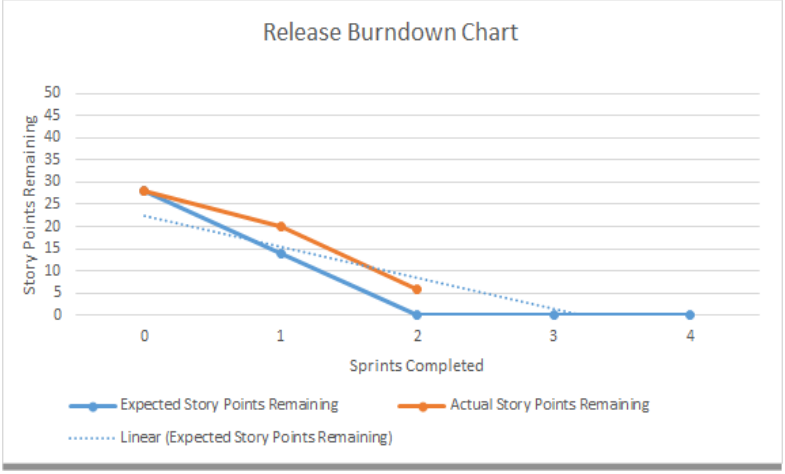
| Make | Model | Series | Year | Transmission | Seating Capacity |
|---|---|---|---|---|---|
| BMW | 3 | E36 16i OPEN AIR | 1995 | 5M | 5 |
| BMW | 7 | 35i | 1984 | 4A | 5 |
| BMW | 3 | 20i | 1989 | 5M | 5 |

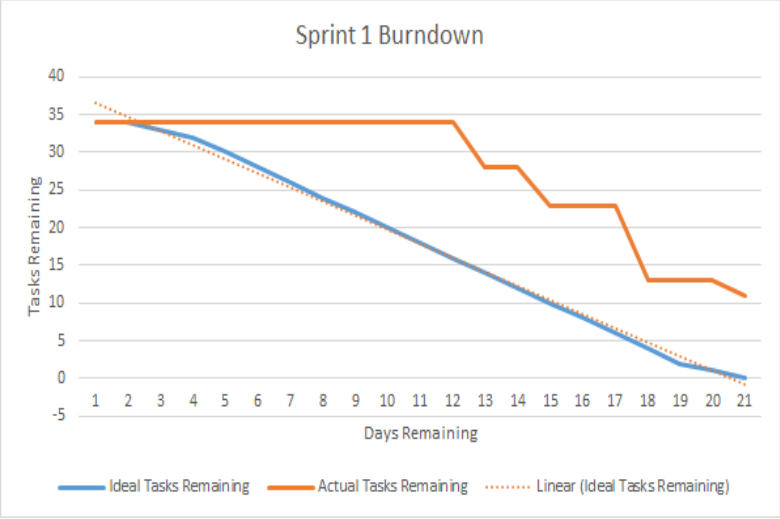
# Artefact 2 – Class Diagram

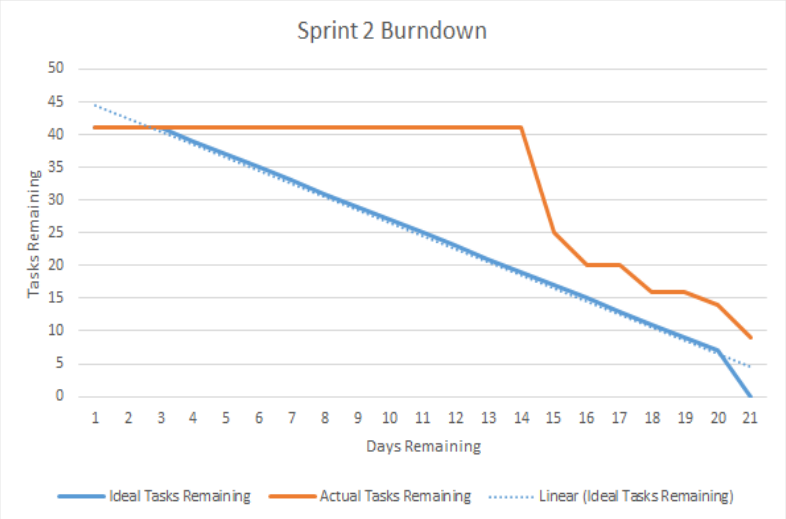
A Class Diagram was created to clarify the structure of the system by identifying each key component and the relationships between them. This tool helped primarily by increasing understanding for the non-developers/clients of how this relational database can be used, which helped them to shape more realistic requirements. This artefact was created in collaboration between myself and Khrystel Santos to ensure maximum accuracy.

# Artefact 3 – Burndown Charts

Burndown charts were created during the phases of the release to depict the remaining work and time, providing a clear metric of completion and performance. This enabled the development team to visually see if they are completing enough tasks to meet the project deadlines, and for the client team to monitor progress and take corrective action early if progress dropped behind schedule.



# Artefact 4 – Database Rework

Another crucial aspect of Sprint 2 was the expansion the database to incorporate more tables with better defined relationships. This required various new constraints and table keys, plus the addition of new tables in the database. To establish the current location of each car, the tables had to be organised to enable each car to only be listed once, and to only retain information on the most recent time the car was ordered to determine the most recent store the car was returned to. These tables were then imported into the database through the LOAD DATA LOCAL INFILE command.

```
mysql> CREATE TABLE CARCURRENTLOCATION (
    -> Order_ReturnDate DATE,
    -> Order_ReturnStore INT(11),
    -> Return_Store_City VARCHAR(255),
    -> Car_ID INT(11),
    -> PRIMARY KEY(Car_ID));
Query OK, 0 rows affected (0.19 sec)

mysql> LOAD DATA LOCAL INFILE 'C:\\Users\\Zac\\Desktop\\299Sprint1\\CarCurrentLocation.csv'
    -> INTO TABLE CRCDATA.CARS
    -> FIELDS TERMINATED BY ','
    -> ENCLOSED BY ""
    -> LINES TERMINATED BY '\r\n'
    -> IGNORE 1 ROWS;
Query OK, 298 rows affected, 27 warnings (0.23 sec)
Records: 298  Deleted: 0  Skipped: 0  Warnings: 27

mysql> ALTER TABLE CARCURRENTLOCATION
    -> ADD FOREIGN KEY (Order_ReturnDate) REFERENCES Orders(Order_ReturnDate);
Query OK, 589 rows affected (1.04 sec)
Records: 589  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE CARCURRENTLOCATION
    -> ADD FOREIGN KEY (Order_ReturnStore) REFERENCES Orders(Order_ReturnStore);
Query OK, 589 rows affected (1.04 sec)
Records: 589  Duplicates: 0  Warnings: 0

mysql> ALTER TABLE CARCURRENTLOCATION
    -> ADD FOREIGN KEY (Order_ReturnDate) REFERENCES Orders(Order_ReturnDate);
Query OK, 589 rows affected (1.04 sec)
Records: 589  Duplicates: 0  Warnings: 0
```

# Artefact 5 – Updated User Stories

This artefact provides an overview of final performance at the end of Sprint 2, which enabled the client and development team to identify their true performance over the duration of the project so far. It identifies user stories and associated tasks which were easier than expected, harder than expected or not necessary. This will enable the team to adjust priorities for the remaining project releases and gain deeper understanding of their individual miscalculations for the project which can teach a lesson for future implementation of such a project.

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## Updated User Stories

| Story ID | Story Title | Story Points | Y/N/Modified | Notes |
|---|---|---|---|---|
| 1 | Home Page | 1 | Y | - |
| **2** | Menu | 2 | Y | - |
| 19 | Contact Us | 1 | M | - |
| 15 | Employee Log-In | 4 | M | Intended Sprint 1 but finalised in Sprint 2 |
| 4 | Most Used Vehicles | 2 | Y | Criteria met - deeper criteria needed to also display car details for release 2 |
| 5 | Store Performance | 2 | Y | - |
| 7 | Upcoming Birthday Deals | 2 | Y | - |
| 9 | Data Recording | 4 | N | Feature pushed back to Release 2 |
| 6 | Car Recommendations | 4 | M | Intended Sprint 1 but finalised in Sprint 2 |
| 8 | Custom Search | 4 | N | Acceptance criteria depend to incorporate more useful features - Check Availability function not completed |
| 12 | Location Availability | 2 | N | Function not completed |