**FASA 1: MENGANALISIS MASALAH**

**Aspek 1.1: Pernyataan Masalah**

Pengurusan Jualan Kereta Terpakai secara manual mempunyai pelbagai kekangan seperti memerlukan banyak masa untuk mengurus data serta memerlukan banyak tenaga untuk merekod data pelanggan. Selain itu, sistem secara manual juga memerlukan banyak masa untuk membuat pengiraan dan membuat laporan menyebabkan sistem tersebut tidak efisien. Oleh itu, satu sistem penjualan automasi yang berasaskan web ini dicipta untuk menyelesaikan masalah di atas. Maklumat dan data menjadi lebih tersusun, lebih efisien dan cepat dijejak serta peluang keciciran maklumat sangat tipis berbanding dengan sistem pengurusan secara manual.

**Aspek 1.2: Objektif**

Objektif sistem pengurusan ini adalah untuk rekod dan papar maklumat tentang data-data kereta yang bakal dijual, ataupun dijual, dan juga data pelanggan. Selain itu, sistem ini juga digunakan untuk mengira hasil keuntungan jualan kereta secara efisien.

**Aspek 1.3: Skop**

Sistem ini hanya digunakan untuk mengira bilangan jualan kereta bulanan dan juga jumlah jualan bilangan sahaja. Penjualan setiap bulan boleh diulas.

**Aspek 1.4: Kumpulan Sasaran**

Pengurus dan penjual syarikat akan menggunakan sistem Pengurusan Jualan Kereta Terpakai ini.

**Aspek 1.5: Menilai Sistem Sedia Ada**

Sistem pengurusan secara manual diguna untuk mengira jumlah bayaran dan jumlah jualan dengan menggunakan kertas dan sistem fail. Kelemahan pengurusan secara manual ialah ia memerlukan banyak masa dan tenaga untuk merekod, megira dan mengurus data. Walau bagaimanapun sistem manual ini tidak memerlukan kepakaran komputer, internet, ataupun tenaga elektrik. Dengan menggunakan sistem pengurusan ini yang bernama **Sistem Pengurusan Jualan Kereta Terpakai VIOLECAR**, pengguna dapat merekod, mengira, mengurus dan melaporkan data-data seperti jualan dengan efisien dan meminimumkan keciciran maklumat.

**Aspek 1.6: Tempoh Projek**

Di bawah adalah jadual perlaksanaan projek yang bermula dari:

1)Bulan Ogos hingga Oktober semasa Tingkatan Empat

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| Bil | Fasa | | Aktiviti | 2019 | | | | | | | | | | | | | | | | | | | | |
| Ogos | | | | September | | | | Oktober | | | | November | | | | Disember | | | | |
| 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 1 | Analisis Masalah | 1.1 | Mengenalpasti masalah |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 1.2 | Menetapkan objektif projek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 1.3 | Menetapkan skop projek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 1.4 | Menentukan kumpulan sasaran |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 1.5 | Membuat kajian sistem sedia ada |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 1.6 | Meyediakan Laporan Fasa Analisa Masalah |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Reka Bentuk | 2.1 | Menyediakan carta alir pelaksanaan projek |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 2.2 | Menyediakan Gambarajah Perhubungan Entiti(ERD) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 2.3 | Membina Jadual Pernomalan dari 0NF-3NF |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 2.4 | Melakar antaramuka Input dan output |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 2.5 | Menyediakan laporan Fasa Rekabentuk |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1)Bulan januari hingga Julai semasa tingkatan lima:

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| Bil | Fasa | | Aktiviti | 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Januari | | | | | | | | | | | | Februari | | | | | | | | | | | | Mac | | | | | | | | | | | | April | | | | | | | | | | | | Mei | | | | | | | | | | | | Jun | | | | | | | | | | | | Julai | | | | | | | | |
| 1 | | | 2 | | | 3 | | | 4 | | | 1 | | | 2 | | | 3 | | | 4 | | | 1 | | | 2 | | | 3 | | | 4 | | | 1 | | | 2 | | | 3 | | | 4 | | | 1 | | | 2 | | | 3 | | | 4 | | | 1 | | | 2 | | | 3 | | | 4 | | | 1 | | | 2 | | 3 | | 4 | | |
| 1 | Perlaksanaan | 3.1 | Menghasilkan Jadual berdasarkan Fasa 2 | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | | |
| 2 | 3.2 | Menghasilkan Borang berdasarkan maklumat di Fasa 2 | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | | |
| 3 | 3.3 | Menghasilkan Query berdasarkan Tema | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | | |
| 4 | 3.4 | Menghasilkan Laporan berdasarkan Tema | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | | |
| 5 | 3.5 | Mengekod dengan menggunakan bahasa pengaturcaraan | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | | |
| 6 | 3.6 | Menyediakan laporan Fasa Perlaksanaan | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | | |
| 7 | Pengujian | 4.1 | Menyediakan set data untuk uji lari yang relevan seperti jenis data, had atas dan had bawah | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | | |
| 8 | 4.2 | Menjalankan ujian untuk ralat sintak, ralat logic dan ralat masa larian | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | | |
| 9 |  | 4.3 | Menyediakan laporan fasa Pengujian | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | |
| 10 | Dokumentasi | 5.1 | Menyediakan laporan bagi setiap fasa | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | |
| 11 | 5.2 | Menyediakan sumber rujukan | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | |
| 12 | 5.3 | Menyediakan penghargaan | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | |
| 13 | 5.4 | Menyediakan manual pengguna | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | |
| 14 | 5.5 | Menyiapkan folio laporan projek | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | | |  | |  | |  | |  | |

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