1. Requirement Collections and analysis: **(Minimum)**

* Processor: Intel Pentium 4 with speed 2.50 GHz (MIN).
* RAM – 3Gb or more than 3Gb is required.
* CPU – 64-bit x 86 CPU is required (Min).
* Operating System – Windows 7 or above.
* MySQL 8.0

1. Entity Types, Entity Sets:

* Entity: An object we want to model and store information about it. It is usually represented in Rectangles. In our project we have used 5 entities given as below:

**Image File, Detection, Car details, Owner info, Address.**

1. Attributes and keys:

|  |  |
| --- | --- |
| **Attributes** | **Keys** |
| Attributes are usually pieces of information about entity | Keys are usually an attribute that uniquely identify an entry in the database |
| It is denoted by ovals connected to entity. | There is total 7 types of keys |
| In our project we have used many attributes such as RC status, Registration Date etc. | In our project 2 types of keys are used  Primary key and Foreign key |

1. Relationships and cardinality:

* It is defined the number of instances of an entity from a relation that can be associated with the relation.
* There are 3 types Relationships Cardinality 1:1, N:M, 1: N we’ve used 1:N.