|  |
| --- |
| NTULogo |
| ER Diagram |
| CZ2007 –[INTRODUCTION](https://ntulearn.ntu.edu.sg/webapps/blackboard/execute/launcher?type=Course&id=_49817_1&url=) TO DATABASES |
|  |
|  |
|  |
|  |

|  |  |
| --- | --- |
| **Done by:** | **SS3 Group 11** |

**ER Diagram:**

**Driver-Drive-Car Relationship**  
One Car-Many Drivers  
  
-Every driver **must** drive a car, it is assumed that a driver can drive no more than 1 car  
-It is assumed that each car can be shared by multiple drivers (ie. Shift-taking)

**User-Make-Booking-Request Relationship**  
One user-Many Requests  
  
-A user can make multiple booking requests  
-A request **must** be made by one user, ie. no shared request between users  
  
**Driver-Browse-Booking Request Relationship**Many requests-Many Drivers  
  
-A request will be sent to multiple drivers, who can choose to accept the request or not  
-A driver can browse through multiple request at once

**Driver-Assign-Confirmed Booking Relationship**Many Confirmed Bookings-One Driver

-Upon confirmation by driver, a request becomes a confirmed booking and **must** be assigned to one driver

-Each driver can have many confirmed booking throughout his career

-Only a confirmed booking will result in a finished trip that allows the user to leave a rating

-Only a confirmed booking can be considered cancelled

-Time cancelled is shown if user cancel and gets a demerit point  
 -A special value ie. ‘ABSENT’ can reflect if user does not cancel and is absent, getting 5 demerit points

**Confirmed Booking-File-Complaint Relationship**  
One confirmed booking-Many Complaints  
  
-Each complaint **must** be associated with one confirmed booking, user cannot submit complaint without an associated confirmed booking

-It is assumed that a user can submit multiple complaints with regard to one booking  
  
-Each complaint is given an **unique** ID to differentiate itself

-Time filed and time processed is recorded to access employee processing latency

**Employee-Process-Complaint Relationship**  
Each complaint **must** be assigned to be processed by one employee