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| Pelanggan |
| -AKUMULASI :int  ~ dt:DateAndTime=new DateAndTime ()  -ID : String  -NAMA: String  -NIK: String  ~TANGGAL:Calendar = new GregorianCalendar  -TANGGAL\_DAFTAR :Date  -TANGGAL\_LAHIR:Date  -TEMPAT\_LAHIR: String |
| +FORMATED\_TANGGAL\_DAFTAR():String  +FORMATED\_TANGGAL\_LAHIR(): String  +GET\_AKUMULASI():int  +GET\_NAMA():String  +GET\_NIK():String  +GET\_TANGGAL\_DAFTAR():Date  +GET\_TANGGAL\_LAHIR():Date  +GET\_TEMPAT\_LAHIR():String  +Pelanggan (String,String,String,String,String,String,String)  +SET\_AKUMULASI(int):void  +SET\_ID(String):void  +SET\_NAMA(String) :void  +SET\_NIK (string):void  +SET\_TANGGAL\_DAFTAR(Date):void  +SET\_TANGGL\_LAHIR(Date):void  +SET\_TEMPAT\_LAHIR(String) :void  +STRING\_TANGGAL\_DAFTAR():String  +STRING\_TANGGAL\_LAHIR():String |

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| Kamar |
| -HARGA\_KAMAR : int(readOnly)  -JENIS\_KAMAR:String(readOnly)  -NOMOR\_KAMAR:String(readOnly)  -STATUS : String |
| +CHECK\_IN\_THIS\_ROOM():void  +CHECK\_OUT\_THIS\_ROOM():void  +GET\_HARGA\_KAMAR():int  +GET\_JENIS\_KAMAR():String  +GET\_NOMOR\_KAMAR():String  +GET\_STATUS():String  +kamar(String,String,String,String) |

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| Staff |
| -ID :String (readOnly)  -jawaban:String  -nama:String  -password:String  -pertanyaan:String |
| +GANTI\_PASSWORD(String):void  +getJawaban():String  +getNama():String  +getPassword():String  +getPertanyaan():String  +setJawaban(String):void  +setNama(String):void  +setPassword(String):void  +setPertanyaan(String):void  +Staff(String,String,String,String,String)  +getID():String |

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| Tamu |
| -CHECK\_IN:Date  CHECK\_OUT:Date  ~dt:DateAndTime= new DateAndTime()  -JAM\_CHECK\_IN:int  -JUMLAH\_TAMU:int=0  -NOMOR\_KAMAR:String  ~TANGGAL: Calendar = new GregorianCalendar |
| +FORMATED\_CHECK\_IN():String  +FORMATED\_CHECK\_OUT():String  +GET\_CHECK\_INT():Date  +GET\_CHECK\_OUT:Date  +GET\_JAM\_CHECK\_IN():int  +GET\_JUMLAH\_TAMU():int  +GET\_LAMA\_INAP():int  +GET\_NOMOR\_KAMAR():String  +SET\_CHECK\_IN(Date):void  +SET\_CHECK\_OUT(Date):void  +SET\_NOMOR\_KAMAR(String):void  +STRING\_CHECK\_IN():String  +STRING\_CHECK\_OUT():String  +Tamu(String,String,Sting,String,String,String,String,String,String,String,int) |

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| LaporanBulanan |
| -BULAN\_TRANSAKSI: String  ~dr:DateAndTime = new GregorianCalendar  -JUMLAH\_TRANSAKSI : int  -PENDAPATAN\_BULANAN:int |
| +GET\_BULAN\_TRANSAKSI() :String  +GET\_JUMLAH\_TRANSAKSI():int  +GET\_PENDAPATAN\_BULANAN():int  +GET\_TAHUN():String  +LaporanBulanan(String,String,String)  +STRING\_BULAN():String  +TAMBAH\_TRANSAKSI(int,int):void |

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| Database |
| -DB\_KAMAR: kamar([])  -DB\_LAPORAN :LaporanBulanan([])  -DB\_PELANGGAN: pelanggan ([])  -DB\_SIZE :int =0  -DB\_STAFF:Staff ([])  -DB\_TAMU:tamu([]) |
| +GET\_DB\_kamar(): kamar[]  +GET\_DB\_LAPORAN():LaporanBulanan[]  +GET\_DB\_PELANGGAN(): Pelanggam []  +GET\_DB\_SIZE():int  +GET\_DB\_STAFF(): Staff[]  +GET\_DB\_TAMU(): Tamu[]  +READ\_DATABASE(String,String): void  +WRITE\_DATABASE\_KAMAR(kamar[]:void  +WRITE\_DATABASE\_LAPORAN(LaporanBulanan[],int) :void  +WRITE\_DATABASE\_PELANGGAN(Pelanggan[],int :void  +WRITE\_DATABASE\_TAMU(Tamu[],int :void |

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| LaporanEngine |
| -DATABASE:lAPORANbULANAN([])  ~db:Database = new Database()  -DB\_SIZE:int  ~dt:DateAndTime = new DateAndTime() |
| +FIND\_INDEX\_BY\_BULAN(Strig):int  +GET\_JUMLAH\_DB():int  +GET\_JUMLAH\_TRANSAKSI\_BY\_INDEX(int):int  +GET\_STRING\_BULAN\_BY\_INDEX(int):String  +GET\_TAHUN\_BY\_INDEX(int):String  +GET\_TOTAL\_PENDAPATAN\_BY\_INDEX(int):int  +INIT\_DB():void  +LaporanEngine()  +TAMBAH\_TRANSAKSI(int,int):void  +UPDATE\_MASTER\_DATABASE():void |

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| LoginEngine |
| -DATABASE:Staff([])  ~db:Database = new Database()  -DB\_SIZE:int |
| +FIND\_STAFF\_INDEX(String):int  +GET\_JAWABAN\_KEAMANAN(String):String  +GET\_PERTANYAAN\_KEAMANAN(String):String  +INIT\_DB():void  +liat():String  +LOGIN(Sting,Sting):booelan  +LoginEngine() |

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| Transaksi |
| ~dt:DateAndTime=new DateAndTime()  ~kamar: kamarEngine= new kamarEngine()  ~tamu : TamuEngine = new TamuEngine() |
| +GET\_BIAYA\_KAMAR(int) :double  +GET\_DENDA(int):int  +GET\_DISKON\_KAMAR(int):double  +GET\_TOTAL(double,double,double):double |

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| kamarEngine |
| -DATABASE: kamar([])  ~db: Database =new Database()  -DB\_SIZE:int  -PRE\_DIPESAN: int=0  -PRE\_KOSONG : int=0  -REG\_DIPESAN : int=0  -REG\_KOSONG: int=0  -SUI\_DIPESAN : int=0  -SUI\_KOSONG : int=0  -VIP\_DIPESAN: int=0  -VIP\_KOSONG:int=0 |
| +GET\_HARGA\_KAMAR\_BY\_NO\_KAMAR(String):int  +GET\_JENIS\_KAMAR\_BY\_NO\_KAMAR(String):String  +GET\_KAMAR\_KOSONG(String):int  +GET\_MASTER\_DATABASE():kamar[]  +GET\_NO\_KAMAR\_BY\_INDEX(int):String  +GET\_PRE\_DIPESAN():int  +GET\_PRE\_KOSONG():int  +GET\_REG\_DIPESAN():int  +GET\_REG\_KOSONG():int  +GET\_SUI\_DIPESAN():int  +GET\_SUI\_KOSONG():int  +GET\_TOTAL\_KAMAR\_DIPESAN():int  +GET\_TOTAL\_KAMAR\_TERSEDIA():int  +GET\_VIP\_DIPESAN():int  +GET\_VIP\_KOSONG():int  +INIT\_DB:void  +kamarEngine()  +KOSONG\_KAMAR(String):void  +liat():String +PESAN\_KAMAR(String):void  +SCAN\_DB():void  +UPDATE\_MASTER\_DATABASE():void |

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| UserEngine |
| -DATABASE:Pelanggan([])  ~db:database = new database()  -DB\_SIZE:int |
| +DELETE\_PELANGGAN(String):void  +GET\_AKUMULASI(int):int  +GET\_FORMATED\_TGL\_DAFTAR\_BY\_INDEX(ingt):String  +GETFORMATED\_TGL\_LAHIR\_BY\_INDEX(int):String  +GET\_ID\_BY\_INDEX(int):String  +GET\_JUMLAH\_USER():int  +GET\_MASTER\_DATABASE():Pelanggan[]  +GET\_NAMA\_BY\_INDEX(int):String  +GET\_NIK\_BY\_INDEX(int):String  +GET\_TEMPAT\_LAHIR\_BY\_INDEX(int):String  +GET\_TGL\_DAFTAR\_BY\_INDEX(int):String  +INIT\_DB():void  +Liat():String  +scan\_ID(String):int  +STRING\_TANGGAL\_DAFTAR(int):String  +STRING\_TANGGAL\_LAHIR(int):String  +TAMBAH\_PELANGGAN(String,String,String,String,String,String,String\_: void  +UPDATE\_MASTER\_DATABASE(): void  +UserEngine() |

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| TamuEngine |
| -DATABASE: Tamu([])  ~db: Database = new database()  -DB\_SIZE: int  ~kamar: KamarEngine = new KamarEngine()  ~ue: UserEngine = new UserEngine() |
| +CHECK\_OUT(String,int):void  +DELETE\_TAMU(String):void  +FIND\_TAMU\_INDEX(String):int  +GET\_AKUMULASI\_BY\_INDEX(int):int  +GET\_DISKON\_BY\_INDEX(int):String  +GET\_ID\_BY\_INDEX(int):String  +GET\_JAM\_CHECK\_IN\_BY\_INDEX(int):int  +GET\_JUMLAH\_TAMU():int  +GET\_KAMAR\_BY\_INDEX(int):String  +GET\_LAMA\_INAP\_BY\_INDEX(int):int  +GET\_MASTER\_DATABASE():Tamu[]  +GET\_NAMA\_BY\_INDEX(int):String  +GET\_NIK\_BY\_INDEX(int):String  +GET\_STRING\_CHECK\_IN\_BY\_INDEX(int):String  +GET\_STRING\_CHECK\_OUT\_BY\_INDEX(int):String  +INIT\_DB():void  +scan\_ID(String):int  +TAMBAH\_TAMU(String,String,String,String,String,String,String,String,String,String,int): void  +TamuEngine()  +UPDATE\_MASTER\_DATABASE():void |

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| DateAndTime |
| +CONVERT\_DAY\_OF\_WEEK(int):String  +CONVERT\_INDEX\_OF\_MONTH(int):String  +GET\_CURRENT\_DATE(String):String  +GET+CURRENT\_TIME(String):String  +GET\_DIFFERENT\_DAYS(int,int,int,int,int):int |