Diagram, schematic

Description automatically generated

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  | | --- | --- | --- | | Car class |  |  | | Task | Method | Data Needed | | Returns the Fair price of the car | getFair() | Fair | | Returns location | getLocation() | Current\_location | | Returns fuel remaining | getFuelRemaining() | FuelRemaining | | Returns the current time | getCurrentTime() | CurrentTime | | Returns the busy hours | getBusyHours() | BusyHoursStart, BusyHoursEnd | | Returns the fuelcost | getFuelCost() | FuelCost | | updates the car’s fair price | setFair(double fair) | Fair | | updates the car’s current location | setLocation(int location) | Current\_location | | updates the FuelCost | setFuelCost(double FuelCost) | FuelCost | | Updates the FuelRemaining | setFuelRemaining(int FuelRemaining) | FuelRemaining | | Updates the local time | setLocalTime(LocalTime time) | CurrentTime | | Updates the busy hours | setBusyHours(LocalTime start, LocalTime end) | BusyHoursStart, BusyHoursEnd | | Print method that’ll print all the necessary datas. | toString() | Car\_ID, Current\_Location, Current\_time, Fair, Fuel Remaining | |

|  |  |  |
| --- | --- | --- |
| 3-seater |  |  |
| Task | Method | Data Needed |
| Loads passenger into car | Load() | Passengers |
| Drops off passenger at destination | DropOff() | Passenger |

|  |  |  |
| --- | --- | --- |
| 5-seater |  |  |
| Task | Method | Data Needed |
| Loads passenger into car | Load() | Passengers |
| Drops off passenger at destination | DropOff() | Passenger |

|  |  |  |
| --- | --- | --- |
| 3-seater Luxury |  |  |
| Task | Method | Data Needed |
| Loads passenger into car | Load() | Passengers |
| Drops off passenger at destination | DropOff() | Passenger |
| Returns the luxury tax | getLuxuryTax() | LuxuryTax |
| Updates the luxury tax | setLuxuryTax() | LuxuryTax |

|  |  |  |
| --- | --- | --- |
| 5-seater luxury |  |  |
| Task | Method | Data Needed |
| Loads passenger into car | Load() | Passengers |
| Drops off passenger at destination | DropOff() | Passenger |
| Returns the luxury tax | getLuxuryTax() | LuxuryTax |
| Updates the luxury tax | setLuxuryTax() | LuxuryTax |

|  |  |  |
| --- | --- | --- |
| People |  |  |
| Task | Method | Data Needed |
| Updates name | setName(string name) | FullName |
| Updates address | setAddress(String address) | Address |
| Updates Cell number | setCellNumber(String cellNumber) | cellNumber |
| Returns name | getName() | FullName |
| Returns address | getAddress() | Address |
| Returns cell number | getCellNumber() | CellNumber |

|  |  |  |
| --- | --- | --- |
| Passenger |  |  |
| Task | Method | Data Needed |
| Updates Destination | setDestination(int destination) | Destination |
| Updates CurrentLcoation | setCurrentLocation(int current location) | Current\_Location |
| Returns destination | getDestination() | Destination |
| Returns current location | getCurrentLocation() | Current\_Location |

|  |  |  |
| --- | --- | --- |
| Station |  |  |
| Task | Method | Data Needed |
| Returns the station ID | getNumber() | StationID |
| Returns the specified passenger at the station | Get() | Passenger |
| Add Passengers in case more people come to the station | Add() | Passenger |
| Removes passengers when they get picked up | Remove() | Passenger |
| Checks if there are passengers remaining at the stations | HasPeopleWaiting() | Passenger |
| Prints all instance variables | toString() | Station ID, Passenger |

JavaDoc

Car Class {

/\*\*

\* Method that returns the fair

\*@return fair.

\*/

Double getFair(){}

/\*\*

\* Method that returns the location of the car.

\* @return location of the car

\*/

int getlocation(){}

/\*\*

\* Rurnst he amount of fuel left

\*@ return fuel remaining in the car

int getFuelRemaining(){}

/\*\*

\*method that’ll return the cost of fuel

\* @return the cost of fuel

\*/

double getFuelCost(){}

/\*\*

\* method that’ll set the fair

\*@param double fair updates the fair cost

\*/

void setFair(double fair){}

/\*\*

\* method that’ll set the location

\*@param location updates the location

\*/

void setLocation(int Location){}

/\*\*

\*Method that updates the fuel cost

\*@param FuelCost updating the fuel cost

\*/

void setFuelCost(double FuelCost){}

/\*\*

\* Updates the location

\*@param Location updates the location

\*/

void setLocation(int location){}

/\*\*

\*Updates the fuel csot

\*@param FuelCost updates the fuel cost

void setFuelCost(double FuelCost){}

/\*\*

\* Updates the fuelremaining

\*@param Updates the fuel remaining

\*/

void setFuelRemaining(int FuelRemaining){}

/\*\*

\*method that’ll update the local time

\*@param updating the local time

\*/

void setLocalTime(LocalTime time){}

/\*\*

\* updating busy hours

\*@param start of the busy hours

\*@param end of the busy hours

\*/

void setBusyHours(LocalTime start, LocalTime end){}

/\*\*

\* Method that’ll print instance variables

\*@return all the instance variables of the class

String toString()

}

3-seater{

/\*\*

\*Loads passenger into car

\*/

Void Load(){}

/\*\*

\*Removes passenger from car

\*/

Void DropOff(){}

}

3-seaterLuxury {

/\*\*

\* Loads Passenger into car

\*/

Void load(){}

/\*\*

\*Removes Passenger fromc ar

\*/

Void DropOff(){}

/\*\*

\*updates the tax

\*@param tax the new tax amount

\*/

Void SetLuxryTax(double Tax){}

/\*\*

* Returns the tax amount

\*@return tax amount

\*/

double getLuxuryTax(){}

}

5-seater{

/\*\*

\*Loads passenger into car

\*/

Void Load(){}

/\*\*

\*Removes passenger from car

\*/

Void DropOff(){}

}

5-seaterLuxury {

/\*\*

\* Loads Passenger into car

\*/

Void load(){}

/\*\*

\*Removes Passenger fromc ar

\*/

Void DropOff(){}

/\*\*

\*updates the tax

\*@param tax the new tax amount

\*/

Void SetLuxryTax(double Tax){}

/\*\*

* Returns the tax amount

\*@return tax amount

\*/

double getLuxuryTax(){}

}

People{

/\*\*

\*updates name

\*@param name name

\*/

Void setName(string name)

/\*\*

\* updates address

\*@param address address

\*/

Void setAddress(string address)

/\*\*

\* updates cell

\*@param cell cell

\*/

Void setCell(string cell)

/\*\*

\* returns name

\*@return name

\*/

String getName()

/\*\*

\* returns address

\*@return address

\*/

String getAddress()

/\*\*

\* returns cell number

\*@return cell number

\*/

String getCellNumber()

/\*\*

\* returns cell address and name

\*@return cell address and name

\*/

String toString()

}

Passenger{

/\*\*

\* updates the location

\*@param location location

\*/

Void setLocation(int location){}

/\*\*

\* sets the destination

\*@param destination destination

\*/

Void setDestination(int destination){}

/\*\*

\*returns destination

\*@return destination

\*/

Int getDestination(){}

/\*\*

\*returns location

\* @return Location

\*/

Int getLocation(){}

}

class station{

/\*\*

\*gets station number

\*@return the station number

\*/

int getNumber(){}

/\*\*

\* adds the passenger to the station

\*@param P passenger

\*/

void add(Passenger p){}

/\*\*

\* removes the passenger from the station

\*@param P passenger

\*/

void remove(passenger P) {}

/\*\*

\*gets the passenger from the station

\*@param p passenger

\*/

void get(Passenger p){}

/\*\*

\*check to see if people are at the station

\*@return true if people are waiting at the station

\*/

Boolean haspeoplewaiting(){}

/\*\*

\*Method that prints if there are people waiting , station number, and address

\*Return string of instance variables

\*/

toString(){}

}