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# **KeyMem**

## **Report on Configuration DefaultConfig**

# PACKAGES

## Default

GLOBALS:

ACTORS:

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### MainController

*Controller is another actor.*

*The Controller gets the settings of the key that is inserted into the Scanner and has been verified by the Scanner that it belongs to the car from the Scanner.*

*The controller then sends the signals to the various controllers to make changes according to the driver settings.*

Relations:

**itsScanner**

Association with Scanner, Multiplicity of 1, Bi-directional

**itsSeat Controller**

Association with Seat Controller, Multiplicity of 1, Bi-directional

**itsHeadrest Controller**

Association with Headrest Controller, Multiplicity of 1, Bi-directional

**itsRearview Mirror Controller**

Association with Rearview Mirror Controller, Multiplicity of 1, Bi-directional

**itsSteering Column Controller**

Association with Steering Column Controller, Multiplicity of 1, Bi-directional

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### MemKey

*MemKey is the actor in this system.*

*MemKey is the actual Key that is used to put into the scanner in the car door.*

*MemKey has the setting for specific users for Seat, Headset, Rearview Mirror and Steering Column positions.*

Relations:

**itsScanner**

Association with Scanner, Multiplicity of 1, Bi-directional

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### System

Relations:

**itsScanner**

Association with Scanner, Multiplicity of 1, Bi-directional

**itsSeat Controller**

Association with Seat Controller, Multiplicity of 1, Bi-directional

**itsRearview Mirror Controller**

Association with Rearview Mirror Controller, Multiplicity of 1, Bi-directional

**itsSteering Column Controller**

Association with Steering Column Controller, Multiplicity of 1, Bi-directional

## USE CASES:

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### Headrest Controller

*The Headrest controller controls the positioning of the Headrest on the Driver's Seat.  
The Headrest controller acts on the instructions that it gets from the MainController and adjusts the Headrest accordingly.*

Relations:

**itsMainController**

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### Rearview Mirror Controller

*The Rearview Mirror controller controls the positioning of the Rearview mirrors.  
The Rearview Mirror controller acts on the instructions that it gets from the MainController and adjusts the Rearview Mirror accordingly.*

Relations:

**itsSystem**

**itsMainController**

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### Scanner

*Scanner is the key-hole in the driver side car door that reads the information stored on the key.  
The Scanner then queries the database and checks to see if the key belongs to the cars and is there any driver in the database with the settings that are on the key.  
If the key does not belong to the car scanner sends instructions to the Security Controller to trigger an alarm.  
If the key belongs to the car, but there are no settings for a driver in the database the default setting are sent the controller.*

Relations:

**itsMemKey**

**itsSystem**

**itsMainController**

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### Seat Controller

*The seat controller controls the positioning of the driver's seat in the car.  
The seat controller acts on the instructions that it gets from the MainController and adjusts the seat accordingly.*

Relations:

**itsSystem**

**itsMainController**

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### Security Controller

*The Security Controller is responsible for triggering off the alarm if a that does not belong to the car is inserted into the Scanner.*

*The Security Controller acts on the instructions that it gets from the Scanner incase the key is not authenticated by the scanner from the database and triggers the alarm.*



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### Steering Column Controller

*The Steering Column controller controls the positioning of the Steering Column.  
The Steering Column controller acts on the instructions that it gets from the MainController and adjusts the Steering Column positioning the Steering wheel accordingly.*

Relations:

**itsSystem**

**itsMainController**

**This is good.**

**Go for it.**



# USE CASE DIAGRAMS

## Usecase

*This is the UseCase Diagram.*

