Manager

- Up to date car repairing status provided

Technician

- New car to repair registered

- Information about car condition recorder

- Repairing schedule stages are provided

Owner
Manager

New car to repair registered

Information about car condition recorder

Repairing schedule stages are provided

Tech-nician

Up to date car repairing status provided

Owner
Manager

SG1: Up to date car repairing status provided

SG3: New car to repair registered

SG5: Information about car condition recorder

SG9: Repairing schedule stages are provided

Tech-nician

Owner
Information about car condition recorded
Car repaired

Information about car condition recorded

Schedule for car repair is prepared
Car repaired

Outsource repairing service to other company

Schedule for car repair is prepared

Information about car condition recorded
Car repaired

Outsource repairing service to other company

Availability of Technician checked

Information about car condition recorded

Workload with other car repairs estimated

Schedule for car repair is prepared
Car repaired

Schedule for car repair is prepared

Outsource repairing service to other company

Information about car condition recorded

Workload with other car repairs estimated

Availability of Technician checked

Availability of Technician is reported

Manager
Car repaired

Schedule for car repair is prepared

Outsource repairing service to other company

Availability of Technician checked

Information about car condition recorded

Workload with other car repairs estimated

Availability of Technician is reported

Availability of Technician is displayed

Manager

AutoService System
Car repaired

Outsource repairing service to other company

Schedule for car repair is prepared

Availability of Technician checked

Information about car condition recorded

Workload with other car repairs estimated

Availability of Technician is reported

Availability of Technician is displayed

Car diagnostic results recorded

Visual defects gathered

Visual defects saved

Report on car condition printed

Manager

AutoService System
Car repaired

Schedule for car repair is prepared

Outsource repairing service to other company

Manager

Workload with other car repairs estimated

Availability of Technician checked

Information about car condition recorded

Car diagnostic results recorded

Visual defects gathered

Visual defects saved

Report on car condition printed

Availability of Technician is reported

Availability of Technician is displayed

Car diagnostic results recorded

Visual defects gathered

Visual defects saved

Report on car condition printed

Manager

AutoService System

Diagnostic Module

Technician

Visual defect module

Reporting module
Manager

AutoService System

Diagnostic Module

Technician

Visual defect module

Reporting module

Manager

Car repaired

Outsource repairing service to other company

Schedule for car repair is prepared

Availability of Technician checked

Information about car condition recorded

Workload with other car repairs estimated

Availability of Technician is reported

Availability of Technician is displayed

Car diagnostic results recorded

Visual defects gathered

Visual defects saved

Report on car condition printed

Manager

AutoService System

Diagnostic Module

Technician

Visual defect module

Reporting module
G1: Car repaired

G2: Outsource repairing service to other company

G3: Schedule for car repair is prepared

G4: Availability of Technician checked

G5: Information about car condition recorded

G6: Workload with other car repairs estimated

G7: Availability of Technician is reported

G8: Availability of Technician is displayed

G9: Car diagnostic results recorded

G10: Visual defects gathered

G11: Visual defects saved

G12: Report on car condition printed
AutoServiceSystem

- Display availability of technicians
- Save visual defects
- Record diagnostic results
- Print report on car condition

Manager

Technician

Owner
AutoServiceSystem

Display availability of technicians

Save visual defects

Record diagnostic results

Print report on car condition

Manager

Technician

Owner
AutoServiceSystem

UC1: Request for available technician

UC2: Enter visual defects

UC3: Initiate diagnostic

UC9: Record diagnostic results

UC11: Save visual defects

UC8: Display availability of technicians

UC12: Print report on car condition
<table>
<thead>
<tr>
<th>Use case ID: name:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Date created:</td>
<td></td>
</tr>
<tr>
<td>Actors:</td>
<td></td>
</tr>
<tr>
<td>Description:</td>
<td></td>
</tr>
<tr>
<td>Trigger:</td>
<td></td>
</tr>
<tr>
<td>Precondition:</td>
<td></td>
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<tr>
<td>Postcondition:</td>
<td></td>
</tr>
<tr>
<td>Main flow:</td>
<td></td>
</tr>
<tr>
<td>Alternative flow:</td>
<td></td>
</tr>
<tr>
<td>Priority:</td>
<td></td>
</tr>
<tr>
<td>Assumptions:</td>
<td></td>
</tr>
<tr>
<td>Use case ID: name:</td>
<td><strong>UC12</strong>: Print report on car condition</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Date created:</td>
<td>24.11.2019</td>
</tr>
<tr>
<td>Actors:</td>
<td>User.</td>
</tr>
<tr>
<td></td>
<td>User can be Manager, Owner or Technician.</td>
</tr>
<tr>
<td>Description:</td>
<td>When it is needed users can check the status of the car under reparation.</td>
</tr>
<tr>
<td>Trigger:</td>
<td>User has to make decision about car in repairing.</td>
</tr>
<tr>
<td>Precondition:</td>
<td>Car is at the AutoService for repairing.</td>
</tr>
<tr>
<td>Postcondition:</td>
<td>User has received the report.</td>
</tr>
<tr>
<td><strong>Main flow:</strong></td>
<td>1. User puts a query about the car.</td>
</tr>
<tr>
<td></td>
<td>2. AutoServiceSystem gather info about visual defects (includes <strong>UC11</strong>).</td>
</tr>
<tr>
<td></td>
<td>3. AutoServiceSystem gather info about diagnostic results (includes <strong>UC9</strong>).</td>
</tr>
<tr>
<td></td>
<td>4. AutoServiceSystem display report on screen.</td>
</tr>
<tr>
<td></td>
<td>5. User checks the report (alternative <strong>AL1</strong>).</td>
</tr>
<tr>
<td></td>
<td>6. User closes the displayed report.</td>
</tr>
<tr>
<td><strong>Alternative flow:</strong></td>
<td><strong>AL1</strong>: User prints report</td>
</tr>
<tr>
<td>Priority:</td>
<td>Medium</td>
</tr>
<tr>
<td><strong>Assumptions:</strong></td>
<td>Users have access to the AutoServiceSystem. Depending on the user role, AutoService system displays different data on car condition. AutoServiceSystem can send reports to the printer.</td>
</tr>
</tbody>
</table>
**NF01:** The system should handle a lot of requests per second performing PIFR-5 operation.

**NF02:** The system should be updatable with interruption of working version quickly during 1 month.

**NF03:** All data entered into the system in the last 48h must be fully logged and recoverable

**NF04:** Patients perform PIFR-7 functions correctly.
NF01: The system should handle a lot of requests per second performing PIFR-5 operation.

NF02: The system should be updatable with interruption of working version quickly during 1 month.

NF03: All data entered into the system in the last 48h must be fully logged and recoverable

NF04 - Patients performs PIFR-7 functions correctly.
**NF01:** The system should handle a lot of requests per second performing PIFR-5 operation.

NF01: PIFR-5 operation should handle 100 requests per second.

**NF02:** The system should be **updatable** with interruption of working version quickly during 1 month.

NF02.1: The administrator should update the working system in 1 minute once a month.
NF02.2: The update function should not interrupt the working version of the system.

**NF03:** All data entered into the system in the last 48h must be fully logged and recoverable

NF03.1: The system should log the data.
NF03.2: The system should recover the data within the last 48 hours.

**NF04** - Patients performs PIFR-7 functions **correctly**.

NF04: Nine out of 10 patients should not make an error when performing PIFR-7 functions.