

RASD

Patricia Abbud Maddalena Andreoli Andreoni Paolo Cudrano

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1 Introduction

1.1 Description of the given problem

The system we are going to develop is a carsharing service called *PowerEnJoy*. The system allows registered users to locate and reserve a car to use.

1.2 Goals

- G1 The system charges the user for a predefined amount of money per minute.
- **G2** The system starts charging the user as soon as the car ignites.
- **G3** The system stops charging the user when the car is parked in a safe area and the user exits the car. The user must confirm the operation, otherwise the system keeps charging them.
- G4 A screen on the car notifies the user of the current charges.
- **G5** The system locks the car automatically when the user exits the car.
- **G6** The system allows the user to open the car through a bluetooth system when the user has reserved it.
- **G8** If the user has chosen to keep being charged, the system allows them to exit and close and re-open the car through a bluetooth system.
- **G9** If the user has chosen to stop being charged, the system keeps a 10minutes window of time when they are allowed to re-open the car if it has not already been reserved by someone else.
- G10 The set of safe parking areas is predefined by the management system.
- **G11** The system allows the user to earn a 10% discount on the current ride if there are at least two other passengers in the car.

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