



# Power Enjoy

Software Engineering Project  
Oral Discussion



- Project Initiatives
- Implementation Diagrams
- Integration
- Testing
- Project Management





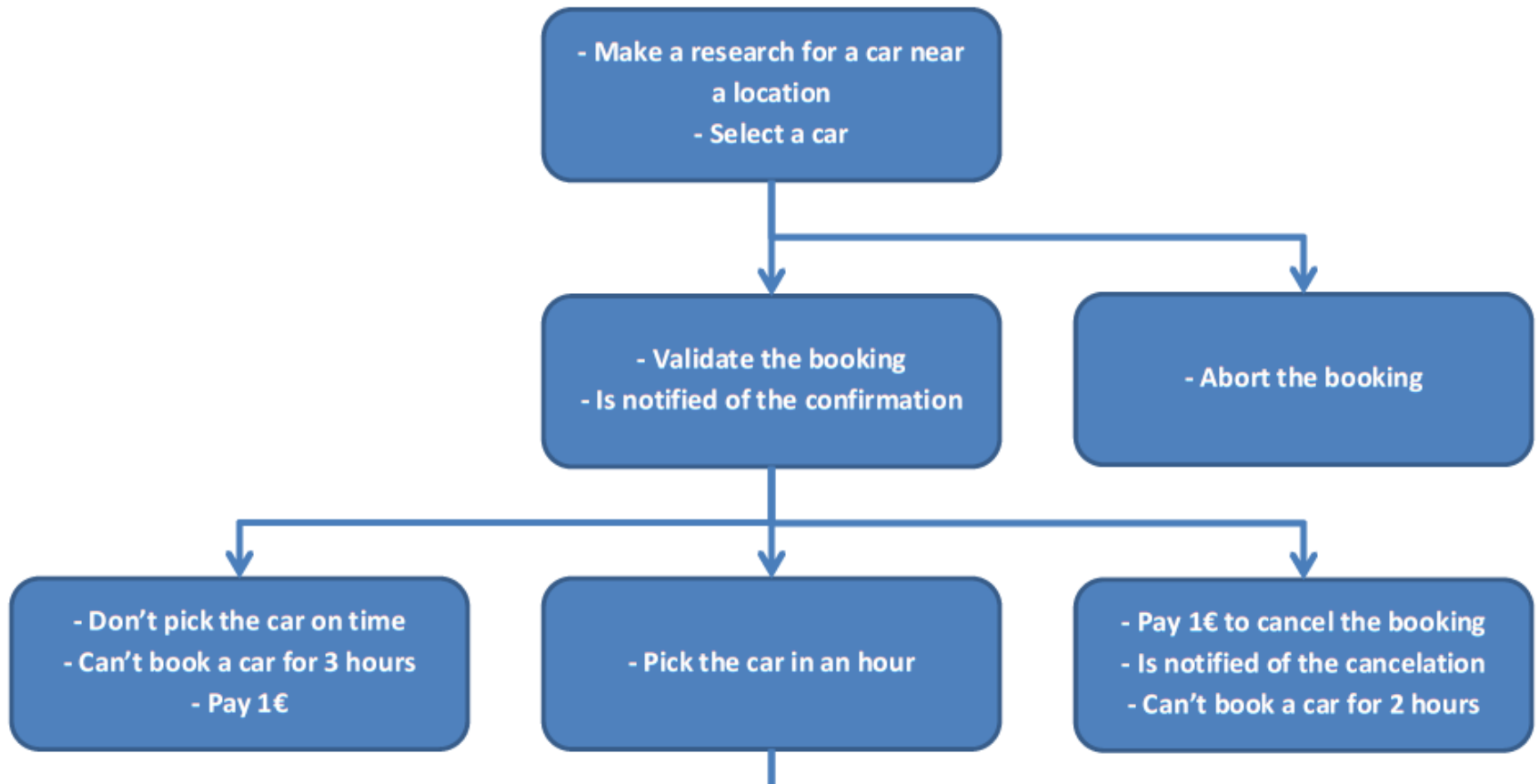
- Possibility of cancelling a reservation
  - 1€ fee
  - Unable to book a car within the next 2 hours
- Time limitation for not picking a booked car
  - 1€ fee
  - Unable to book within the next 3 hours

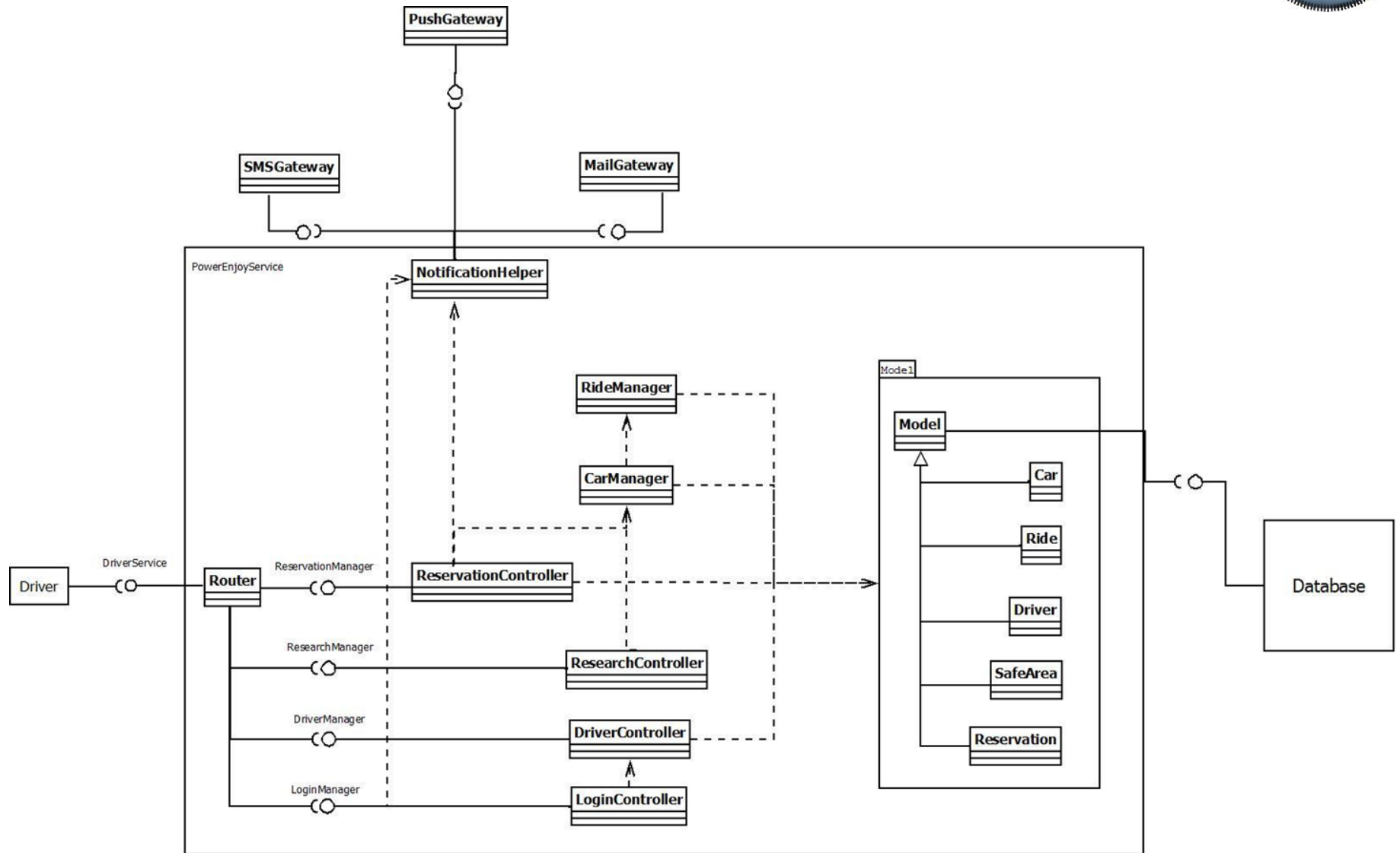


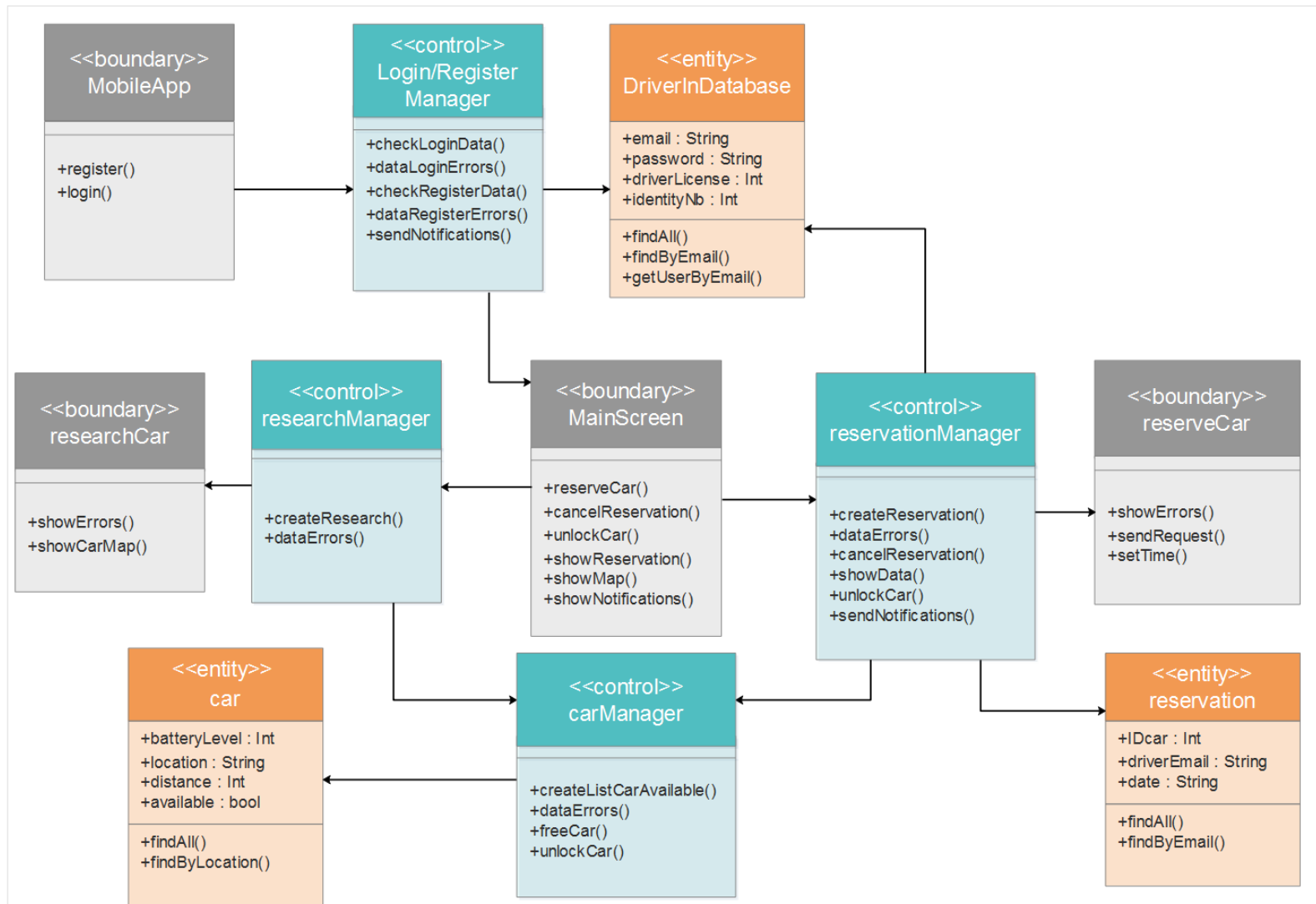


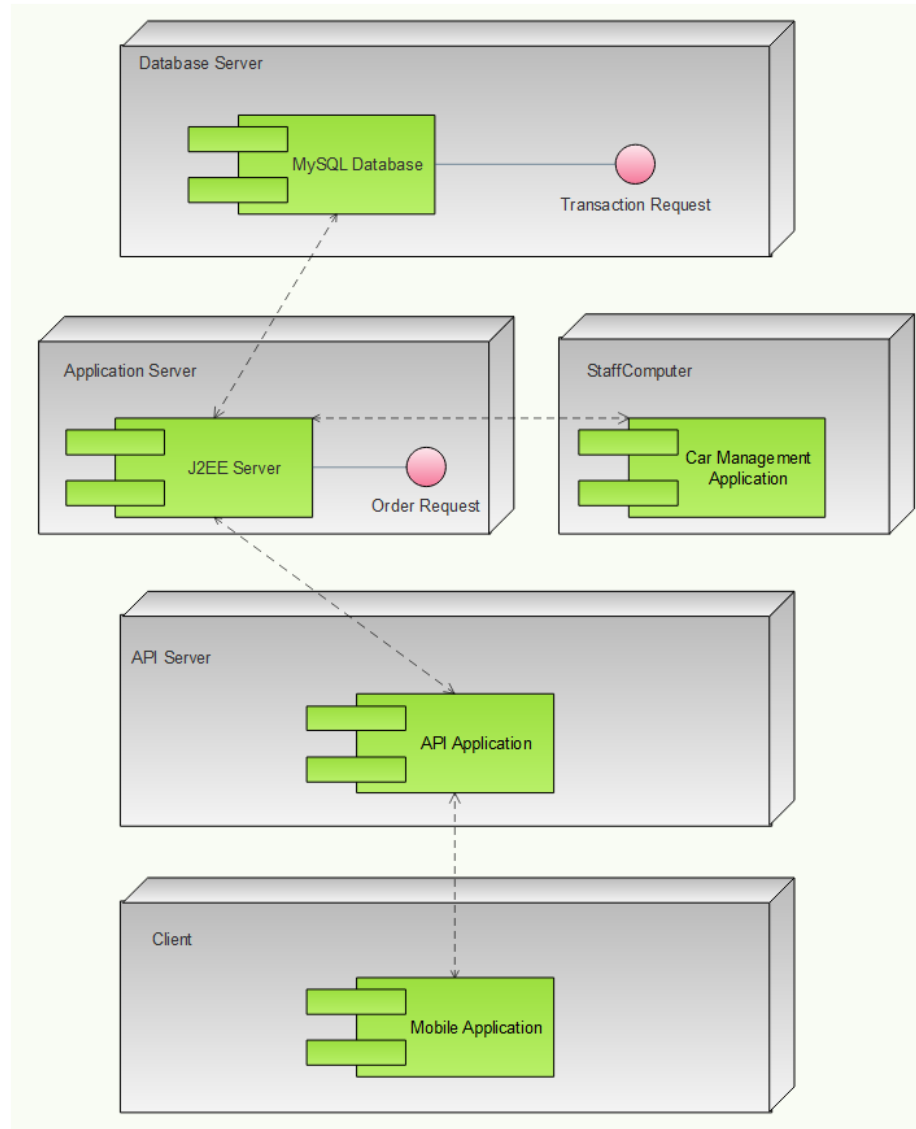
- A driver who unlocks a car will ignite the engine
- You can only use the smartphone application to access the system
- The society has a maintenance and insurance service for cars



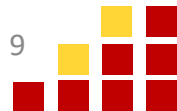
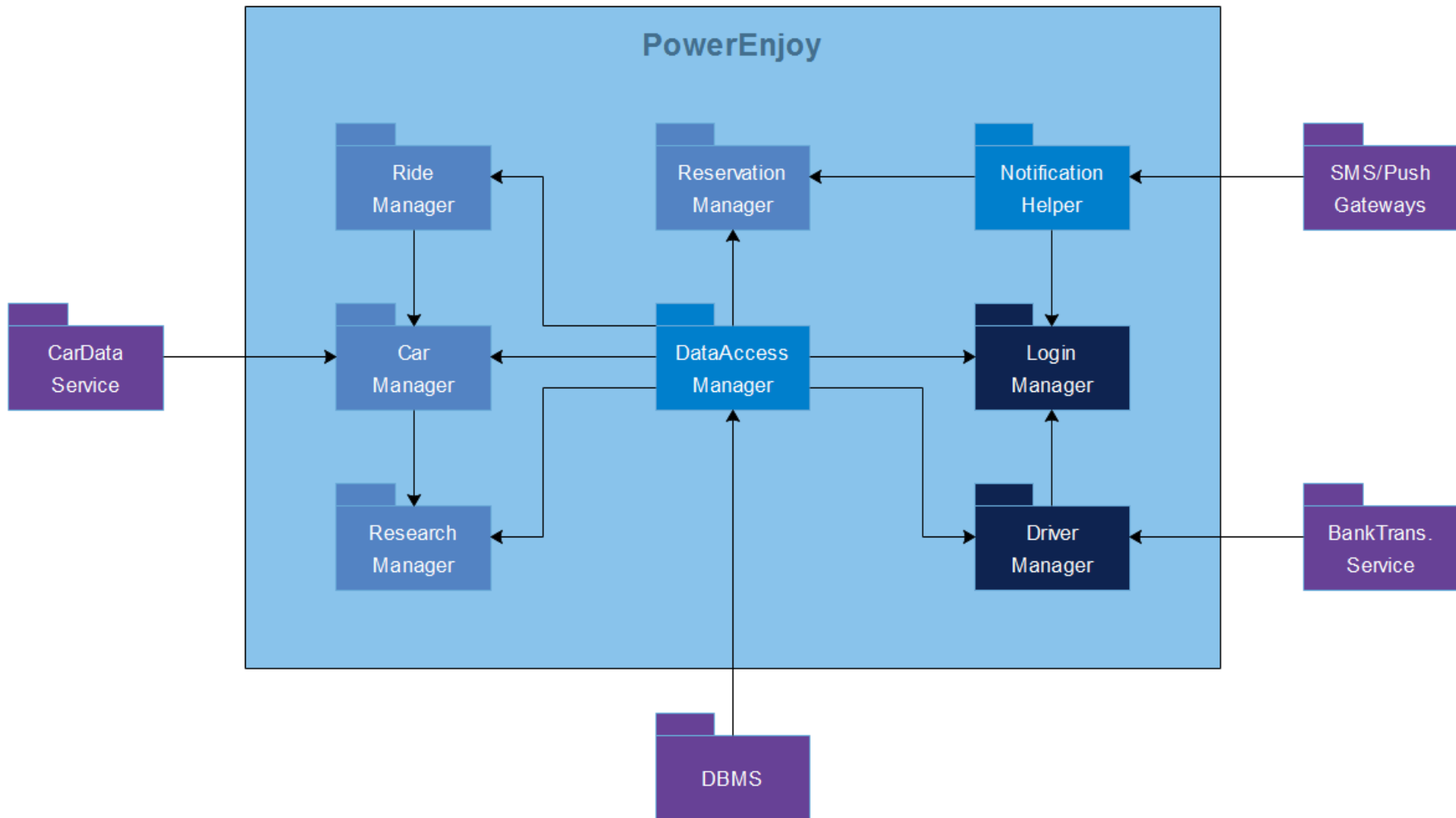














<b>Test Case identifier</b>	I1T1
<b>Items tested</b>	DBMS → DataAccess Manager
<b>Input specifications</b>	DBMS output
<b>Pass criteria</b>	<ul style="list-style-type: none"> <li>- The DataAccess Manager check that the data coming in and out are valid</li> <li>- If the data coming in are valid, check that it calls the right methods</li> <li>- If the data are not valid, signal an error in the process and check that the error has been caught</li> </ul>
<b>Environmental needs</b>	DBMS driver
<b>Test Case identifier</b>	I1T1

<b>Test Procedure identifier</b>	TP3
<b>Item to test</b>	Car Management System
<b>Purpose</b>	<p>This test will check if the Car Management System :</p> <ul style="list-style-type: none"> <li>- Know the information about rides and reservations</li> <li>- Know the current information about every single car</li> <li>- Can use those information to signal problems</li> <li>- Can share those information with the persons in charge of the cars</li> </ul>
<b>Steps</b>	I1 → I3, I1-I2 → I6, I1-I3 → I4, I1-I4 → I5





Software analysis				Total
Inputs	3	4	2	37
Outputs	3	0	1	19
Inquiry	2	2	0	14
ILF	6	0	0	42
ELF	0	1	0	7
Total				<b>119</b>

High estimation	Low estimation
<b>4998</b>	<b>7973</b>





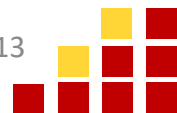
	Very Low	Low	Nominal	High	Very High	Extra High	Average
<b>Precedentness</b>	6,2	4,96	3,72	2,48	1,24	0	
<b>#Elements</b>	1	0	1	0	0	2	2,48
<b>Flexibility</b>	5,07	4,05	3,04	2,03	1,01	0	
<b>#Elements</b>	0	0	2	0	0	1	2,03
<b>Resolution</b>	7,07	5,65	4,24	2,83	1,41	0	
<b>#Elements</b>	0	3	4	0	0	0	4,84
<b>Team cohesion</b>	5,48	4,38	3,29	2,19	1,1	0	
<b>#Elements</b>	0	0	0	1	1	0	1,65
<b>Process Maturity</b>	7,8	6,24	4,68	3,12	1,56	0	
<b>#Elements</b>	0	0	0	1	0	0	3,12
SF Total							<b>14,12</b>

	High estimation	Low estimation
Effort (person-month)	<b>11,58</b>	<b>18,91</b>
Duration (month)	<b>7,81</b>	<b>9,08</b>





ID	Task Name	Start	Finish	Duration	16/10/16			1/1/17			1/4/17			1/7/17		
					16/10/16	1/11/16	1/12/16	1/1/17	1/2/17	1/3/17	1/4/17	1/5/17	1/6/17	1/7/17	1/8/17	9/1/17
1	RASD	16/10/16	10/11/16	20.0 d.												
6	DD	14/11/16	8/12/16	19.0 d.												
11	ITD	12/12/16	16/1/17	26.0 d.												
14	Development	12/12/16	13/7/17	154.0 d.												
15	External Components acquisition & study	12/12/16	2/1/17	16.0 d.												
16	Unit tests + Code Inspection	11/1/17	2/7/17	123.0 d.												
17	Components development	12/12/16	15/3/17	68.0 d.												
18	Components integration	16/3/17	18/4/17	24.0 d.												
19	Integration + System testings + Corrections + Internal demonstrations	18/4/17	31/5/17	32.0 d.												
20	Stakeholders demonstrations + Corrections + User manual	2/6/17	11/7/17	28.0 d.												
21	Release	15/7/17	15/7/17	0.0 d.												
22	Deployment	16/7/17	15/8/17	23.0 d.												
25	Start-up	16/8/17	31/8/17	12.0 d.												





Resources Allocation											
Date	16/10/16	1/11/16	1/12/16	1/01/17	1/02/17	1/03/17	1/04/17	1/05/17	1/06/17	1/07/17	1/08/17
Name											
Vianney Payelle	Tasks 1-5 RASD	Tasks 6-10 DD	Task 15 External Components Task 13 Tests Description	Task 17 Components Development	Task 18 Components Integration	Task 16 Unit Testing Code Inspection	Task 16 Unit Testing Code Inspection	Task 16 Unit Testing Code Inspection	Task 16 Unit Testing Code Inspection	Tasks 20-21 System deployment	Tasks 25-27 Start-up
Rémi Rigal	Tasks 1-5 RASD	Tasks 6-10 DD	Task 17 Components Development	Task 17 Components Development	Task 16 Unit Testing Code Inspection	Task 19 Integration System testing	Task 19 Integration System testing	Task 19 Integration System testing	Task 19 Integration System testing	Tasks 20-21 Stakeholders demo Release	Tasks 24 Mobile deployment Tasks 25-27 Start-up
Noëlie Ramuzat	Tasks 1-5 RASD	Tasks 6-10 DD	Task 12 ITD	Task 16 Unit Testing Code Inspection	Task 18 Components Integration	Task 18 Components Integration	Task 19 Correction Internal tests	Task 19 Correction Internal tests	Task 19 Correction Internal tests	Tasks 20-21 User Manual Corrections Release	Tasks 23 System deployment Tasks 25-27 Start-up

## Caption

- RASD group tasks
- DD group tasks
- ITD group tasks
- Development group tasks
- Deployment group tasks
- Start-up group tasks





# Thank you

