4. **REQUIREMENTS TRACEABILITY**

In this section, we discuss a mapping between the requirements which have been defined in RASD and the design components. For more readability, we number the components as follows:

C1: DBMS

C2: GoogleMapService

C3: UserMobileApp

C4: Authentication

C5: Mail

C6: Router

C7: Suggestion

C8: Searching

C9: Booking

C10: Pay

C11: Edit Information

C12: DataEncript

C13: Model

C14: ExternalAPIHandeler

C15: GoogleCalendarService

C16: DSO

C17: Select DSO

C18: Charging Process

C19: Set Service Fee

C20: View External Status

C21: View Internal Status

C22: View Location

C23: View DSO's price

C24: CPOWebApp

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| R | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 | C17 | C18 | C19 | C20 | C21 | C22 | C23 | C24 |
| R1 | \* |  | \* | \* |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R2 | \* |  | \* |  | \* | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R3 | \* |  | \* | \* |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R4 | \* |  |  | \* |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R5 | \* | \* |  |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  | \* |
| R6 | \* |  | \* |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  |
| R7 | \* | \* | \* |  |  | \* | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |
| R8 | \* |  |  | \* |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  | \* |
| R9 | \* |  | \* |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  |
| R10 | \* |  | \* |  |  | \* |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R11 | \* |  | \* |  |  | \* |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R12 | \* |  |  |  |  | \* |  |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  | \* |
| R13 | \* |  |  |  |  | \* |  |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  | \* |
| R14 | \* |  | \* |  |  | \* |  |  |  | \* |  | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |
| R15 | \* |  | \* |  |  | \* |  |  |  | \* |  | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |
| R16 | \* |  | \* |  |  | \* |  |  | \* |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |
| R17 | \* |  | \* |  |  | \* |  |  |  |  |  | \* | \* | \* | \* |  |  | \* |  |  |  |  |  |  |
| R18 | \* |  | \* |  |  | \* | \* |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |
| R19 | \* |  |  |  |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  | \* |  |  |  | \* |
| R20 | \* |  |  |  |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  | \* | \* |  | \* |
| R21 |  | \* |  |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  | \* |
| R22 | \* |  |  |  |  | \* |  |  |  |  |  | \* | \* |  |  |  |  |  | \* |  |  |  |  | \* |
| R23 | \* |  | \* |  |  | \* |  |  |  |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |
| R24 | \* |  | \* |  |  | \* |  |  |  |  |  |  | \* | \* |  |  |  | \* |  |  |  |  |  |  |
| R25 | \* | \* | \* |  |  | \* |  | \* |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |
| R26 | \* |  | \* |  |  | \* |  | \* |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R27 | \* |  | \* |  |  | \* |  |  |  | \* |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  |
| R28 | \* |  | \* |  |  | \* |  |  |  | \* |  |  | \* |  |  |  |  | \* |  |  |  |  |  |  |
| R29 | \* |  | \* |  |  | \* |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R30 | \* |  | \* |  |  | \* |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R31 | \* |  | \* |  |  | \* |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R32 | \* |  | \* |  |  | \* |  |  | \* |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |
| R33 | \* |  |  |  |  | \* |  |  |  |  |  |  | \* | \* |  | \* |  |  |  |  |  |  |  | \* |
| R34 | \* |  | \* |  |  | \* | \* |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |
| R35 | \* |  | \* |  |  | \* |  |  | \* |  |  | \* | \* |  |  |  |  | \* |  |  |  |  |  |  |
| R36 | \* |  | \* |  |  | \* |  |  |  |  | \* | \* | \* |  |  |  |  |  |  |  |  |  |  |  |
| R37 | \* |  | \* |  |  | \* |  |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |
| R38 | \* |  |  |  |  | \* |  |  |  |  |  |  | \* | \* |  | \* |  |  |  |  |  |  | \* | \* |
| R39 | \* | \* | \* |  |  | \* |  |  |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  |
| R40 | \* |  | \* |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  |  |
| R41 | \* |  |  |  |  | \* |  |  |  |  |  | \* | \* | \* |  |  | \* |  |  |  |  |  |  | \* |
| R42 | \* |  |  |  |  | \* |  |  |  |  |  |  | \* |  |  |  |  |  |  |  |  |  |  | \* |
| R43 | \* |  |  |  |  | \* | \* |  |  |  |  | \* | \* |  |  |  |  |  |  |  |  |  |  | \* |