

# EPC (Event-driven Process Chain)

**Purpose:** Show events and functions for the parking management process.

**Legend:** Event → Function → Event

[Driver arrives at parking facility]

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(Detect vehicle at entry) --> [Vehicle detected]

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(Validate access / check availability)

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[Space available?] --no--> (Redirect to nearest lot) --> [Driver redirected]

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yes

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(Assign parking space via AI optimizer)

↓

[Space assigned]

↓

(Guide driver via signage / app)

↓

[Driver parked]

↓

(Detect departure intention / end of session)

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(Compute fee using dynamic pricing)

↓

[Payment processed]

↓

(Release space and update availability)

↓

[Space free]

Notes: each function (parentheses) can be linked to system modules: sensors, ANPR camera, reservation API, pricing engine, mobile app, payment gateway.