

Research Documentation: AIBOLOT

Synthesizing IoT-driven urban mobility data to define system-level requirements and mitigate user friction in high-density parking environments.

User Personas



- Persona A**
- "The Urban Commuter"
- **Needs:** Real-time parking availability and time-efficient routing.
 - **Goals:** Minimize circling time and reduce traffic-induced stress.

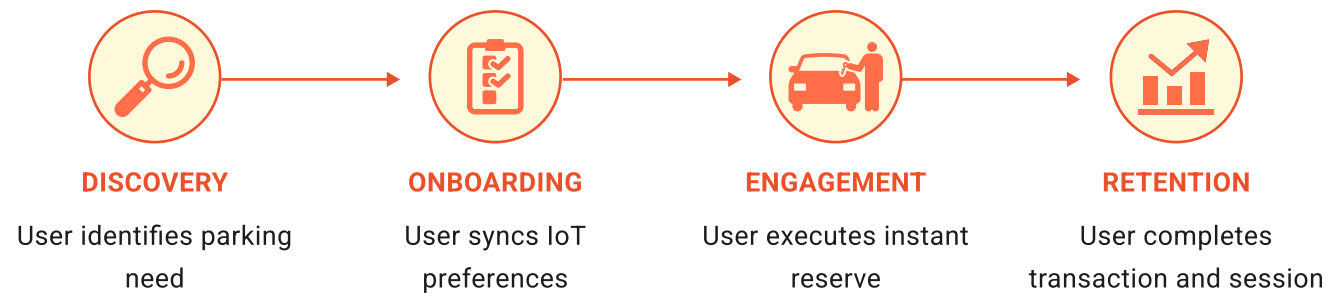


- Persona B**
- "The IoT Early Adopter"
- **Needs:** Seamless integration with smart city infrastructure and simple reservation flows.
 - **Goals:** Automate the parking process for maximum convenience.

Competitive Analysis

Feature	Aibolot	Competitor 1	Competitor 2
Real-Time IoT Map	High	YES	NO
Instant-Reserve	YES	NO	NO
Ease of Navigation	High	MEDIUM	MEDIUM

User Journey Map



Core Design Constraints

ACCESSIBILITY: Intuitive, high-visibility UI for high-density environments.

NAVIGATION: Low-click depth for rapid booking during peak traffic.

RESPONSIVENESS: Optimized for real-time mobile interaction while driving or planning.

DATA LATENCY: Minimized signal delay for real-time parking updates