MiniApp Overview

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MiniApp Introduction

- A new format of mobile application, running on top of Native Apps or OS

- A hybrid solution which relies on Web technologies (especially CSS and Javascript)

- But also integrates with capabilities of Native Apps.

MiniApp Landscape

Alipay Mini
Program

Baidu Smart
Mini Program

Quick App

...

4.5M+   **10**+   **1.5M**+   **400M**+   **1.2T**+

MiniApps   **MiniApp Vendors**   **Developers**   **DAU**   **GMV**

MiniApp Use Cases

Buy train tickets

1. In Baidu app
2. Search "train ticket"
3. In search result, choose destination
4. Open "Ctrip miniapp"
5. Choose and buy a train ticket

Rent a bicycle

1. In Alipay app
2. Click "Scan"
3. Scan the QR code label attached on bicycle
4. Open "Hellobike miniapp"
5. Ask for Location permission
6. Ask for Bluetooth permission for unlocking
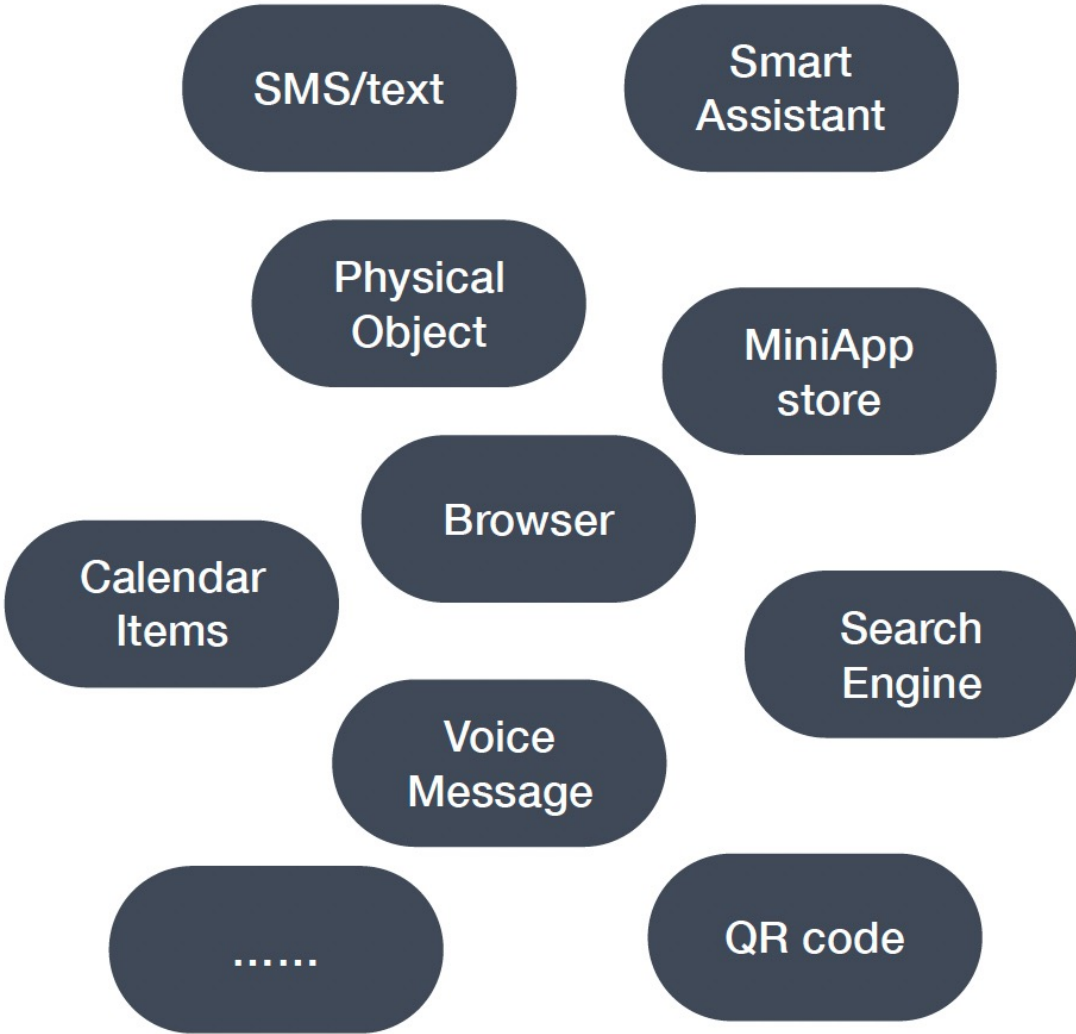7. Unlock the bicycle

Call a cab

1. Time to go home
2. "Didi widget" shows on smart assistant
3. Choose type and confirm
4. Open "Didi miniapp"
5. Ask for Location permission
6. Use pre-set home address and start calling a cab

Key features

- Web-like, free of installation
  - ➤ Small package（2M-4M）
  - ➤ Split packages
  - ➤ Streaming
- App-like experience
  - ➤ Native API/data access with permission
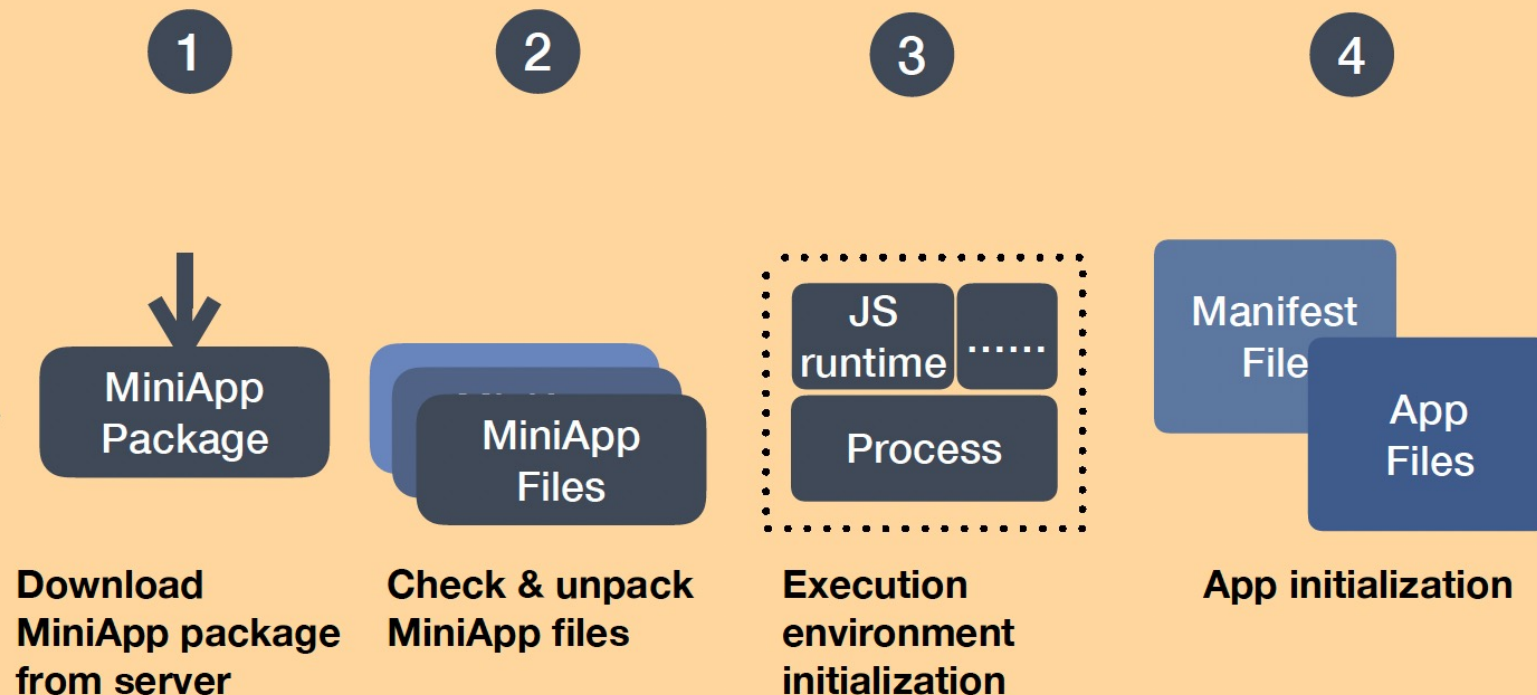 - ➤ High-level components (e.g. map)
- Discoverable in multi-entries

Launching a MiniApp

Open With
MiniApp URI

1 Download MiniApp package from server

2 Check & unpack MiniApp files

3 Execution environment initialization

4 App initialization

5 Open & render page

MiniApp Package

MiniApp Files

JS runtime

Process

Manifest File

App Files

MiniApp Engine

MiniApp specs in development

WG documents

- Normative specifications
  - ➤ Lifecycle, https://w3c.github.io/miniapp-lifecycle/
  - ➤ Manifest, https://w3c.github.io/miniapp-manifest/
  - ➤ Packaging, https://w3c.github.io/miniapp-packaging/
- Other deliverables
  - ➤ Addressing, https://w3c.github.io/miniapp-addressing/
  - ➤ Widget, https://w3c.github.io/miniapp-widget/req/

CG documents
  - ➤ UI Components, https://w3c.github.io/miniapp-components/
  - ➤ IoT, https://w3c.github.io/miniapp-iot/

Thanks