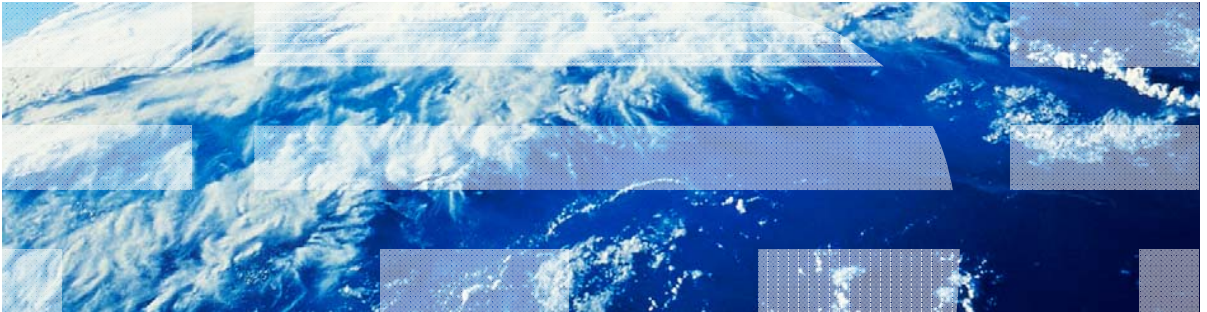# *IBM Worklight V5.0.6*
Getting Started

Running jQuery Mobile-based Flight Ticket Sample

Trademarks

- IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corporation, registered in many jurisdictions worldwide. Worklight is a trademark or registered trademark of Worklight, an IBM Company. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.

- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

- Other company products or service names may be trademarks or service marks of others.

- This document may not be reproduced in whole or in part without the prior written permission of IBM.

About IBM®

- See http://www.ibm.com/ibm/us/en/

Agenda

- About this task

- Before you begin

- Known limitations

- Explore the Flight Ticket sample

About this task

- The Flight Ticket sample app is a hybrid sample application that illustrates an end-to-end scenario. Hybrid applications consist of an application that is developed with web technologies such as HTML, CSS, and JavaScript.
    - The JavaScript invocations call into a JavaScript native bridge.
    - The bridge enables hybrid applications to access native device capabilities such as GPS or a camera, and to use native device UI controls and navigation.
- This style of applications enables developers to use their existing web skills without needing to learn to program in other languages such as Objective-C or Java™.
    - It also frees them from writing multiple versions of the same application for various different platforms.
    - A hybrid application tends to have a similar performance and look and feel to a pure native application.

About this task

- The Flight Ticket sample app is a business-to-consumer example that demonstrates different capabilities of a hybrid application in an end-to-end scenario.

  – The scenario covers an individual who is making and managing a flight booking.

  – The individual can perform the following activities:

    • Query and book flights
    • Make a payment
    • Cancel a booking
    • Check in

- The code is available as an Eclipse project for Android and as an Xcode project for iOS.

Agenda

- About this task
- Before you begin
- Known limitations
- Explore the Flight Ticket sample

Before you begin - Android

- Import the sample project into Worklight® Studio.
  - Select the **Copy project into workspace** check box.
- Build and deploy the HTTP and SQL adapters.
- Build and deploy the Android environment.

- See the following modules for how to build and deploy the sample:
  - Setting up your Worklight development environment
  - Setting up your Android development environment
  - Adapter framework overview
  - HTTP adapter – Communicating with HTTP back-end systems
  - SQL adapter – Communicating with SQL database

Before you begin - iOS

- Import the sample project into Worklight® Studio.
  - Select the **Copy project into workspace** check box.
- Build and deploy the HTTP and SQL adapters.
- Build and deploy the iOS environment.

- See the following modules for how to build and deploy the sample:
  - Setting up your Worklight development environment
  - Setting up your iOS development environment
  - Adapter framework overview
  - HTTP adapter – Communicating with HTTP back-end systems
 - SQL adapter – Communicating with SQL database

Agenda

- About this task

- Before you begin

- Known limitations

- Explore the Flight Ticket sample

Known limitations - Android

There are some known limitations in the Flight Ticket sample that is running on Android. The following instructions describe how to implement workarounds to these limitations:

- Zooming on Android tablets
  - On Android 3.0+ tablets, the sample is automatically zoomed, which gives a poor user experience.
  - To disable zooming, perform the following steps to set the SDK version to 11 or above:
    - Right-click the generated Android project and then **Properties**.
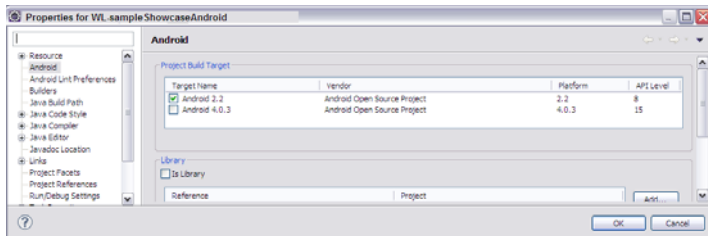
  - Click **Android** in the properties list.
  - Change **Project Build Target** to **Android 3.0** or above and click **OK**.

Known limitations - Android

- Edit AndroidManifest.xml in the root of the generated project
  - Set android:minSdkVersion to the API level of the **Project Build Target**

```
    </application>
    <uses-sdk android:minSdkVersion="15" />
</manifest>
```

- For information about known defects, also check the product Release Notes.

Known limitations - iOS

There are some known limitations in the Flight Ticket sample that is running on iOS. The following instructions describe how to implement workarounds to these limitations:

- Screen rotation
  - Apache Cordova disables screen rotation by default
  - To enable free rotation, perform the following step:
    - Edit CDVMainViewController.m
      - Update method **shouldAutorotateToInterfaceOrientation** to always return **YES** in the generated native Xcode project

```
- (BOOL)shouldAutorotateToInterfaceOrientation:(UIInterfaceOrientation)interfaceOrientation
{
    // Return YES for supported orientations
    return (interfaceOrientation == YES);
}
```

- For information about known defects, also check the product Release Notes

Agenda

- About this task

- Before you begin

- Known limitations

- Explore the Flight Ticket sample

Explore the sample

- Load the Flight Ticket sample app.
  - The main screen is displayed.

- There are five features:
  - Book Flights
  - My Orders
  - Check-In
  - My Profile
  - Misc

No SIM 🛜	18:34	99% 🔋
	Flight Ticket	

Book Flights	❯
My Orders	❯
Check-In	❯
My Profile	❯
Misc	❯
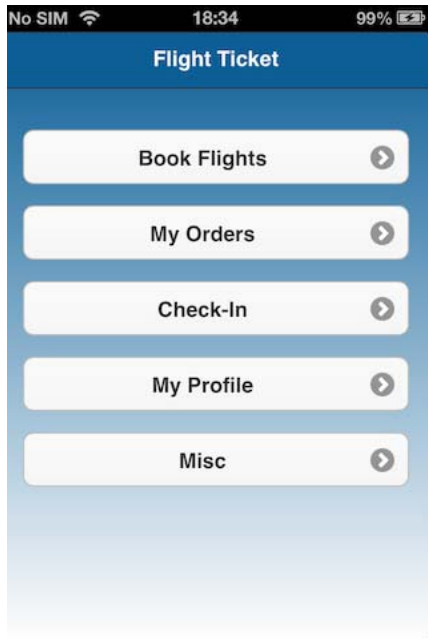
Explore the sample: Book Flights

- Tap or click **Book Flights** on the main screen to begin the flight booking process.

  - The **Search Flights** screen is displayed.

- Tap or click **One Way** or **Round Trip**.

Explore the sample: Book Flights

- Tap or click the following search options:
  - **Departure** to set the departure airport
  - **Destination** to set the destination airport
  - **Departure Date** to set the departure date
  - **Return Date** to set the return date
  - **Cabin Class** to set the cabin class
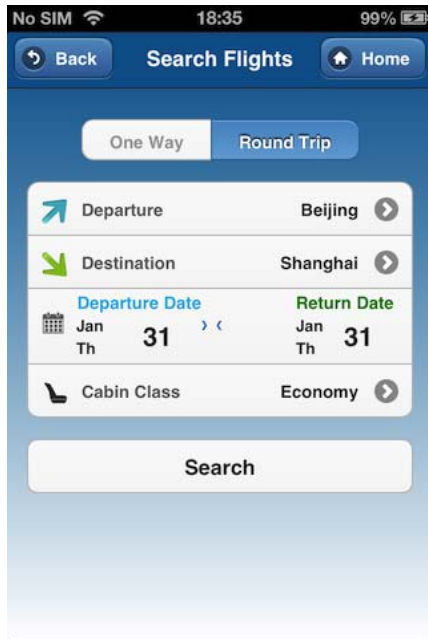
Explore the sample: Book Flights

- Departure and Destination airports
  - Tap or click **Departure** or **Destination** to display the **Select Airport** screen.

- The airport list is pre-populated with the most popular, or hot, airport cities.
  - Tap or click a city to select it.

- Use the **Search** field to search for a hot city.
  - Search text is not case-sensitive.
    - *Beijing*, *BeiJING*, or *BEIJING* return the same result.
  - You can also enter short forms of city names
    - *bj* returns *Beijing*.

No SIM 🛜	18:36	99%
⟲ Cancel	**Select Airport**	⌂ Home

🔍 Search...
Hot City
Beijing
Shanghai
Kunming
Hangzhou
Guangzhou
Chengdu
Xian
Nanjing
Shenzhen
Chongqing

Explore the sample: Book Flights

- Departure and Return dates
  - Tap or click **Departure Date** or **Return Date** to display the date selector.

- Use the date selector roller to set the required departure date or return date.
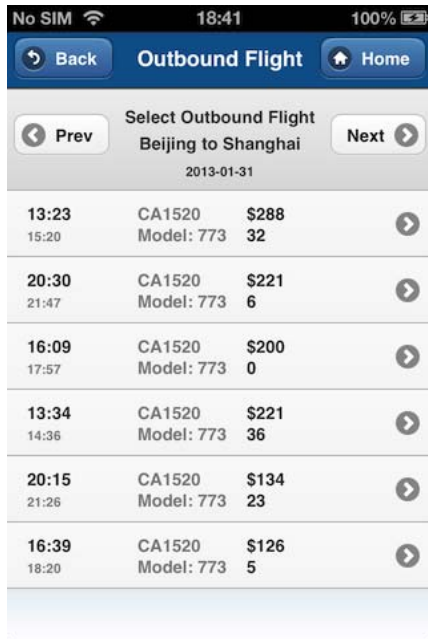 - Tap or click **Set** to add the date to the flight search criteria.

Explore the sample: Book Flights

- Tap or click **Search** on the **Search Flights** screen to begin the flight search.

  – The **Outbound Flight** screen is displayed.

- Tap or click an outbound flight to select it.

No SIM	18:41	100%
Back	**Outbound Flight**	Home

Prev	Select Outbound Flight Beijing to Shanghai 2013-01-31	Next
13:23 15:20	CA1520 Model: 773	$288 32
20:30 21:47	CA1520 Model: 773	$221 6
16:09 17:57	CA1520 Model: 773	$200 0
13:34 14:36	CA1520 Model: 773	$221 36
20:15 21:26	CA1520 Model: 773	$134 23
16:39 18:20	CA1520 Model: 773	$126 5

Explore the sample: Book Flights

- If you selected **Round Trip** on the **Search Flights** screen, the **Return Flight** screen is displayed.

- Tap or click a return flight to select it.

No SIM 🔋	18:41	100% 🔋
🔙 Back	**Return Flight**	🏠 Home

🔘 Prev	**Select Return Flight** **Shanghai to Beijing** 2013-01-31	Next 🔘
13:33 14:56	CA1520 Model: 773	$135 26	❯
08:43 10:16	CA1520 Model: 773	$253 29	❯
23:14 24:59	CA1520 Model: 773	$198 33	❯
11:51 13:20	CA1520 Model: 773	$199 24	❯
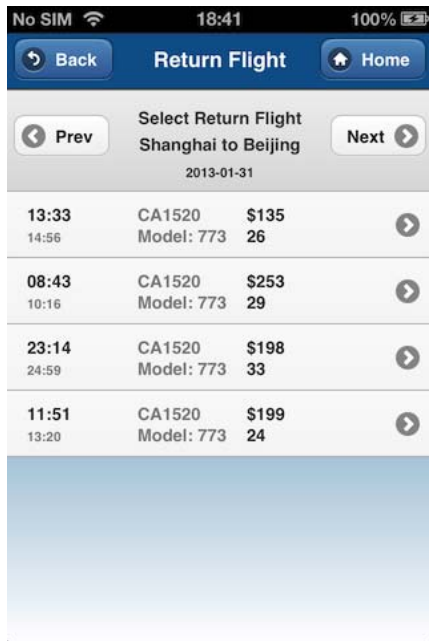
Explore the sample: Book Flights

- The **Book Ticket** screen displays the following details:
  - Selected flight information
  - Passenger information
  - Contact information

- The Flight Ticket sample is pre-populated with one default passenger and their contact details.

- Tap or click **Add Passengers** to add a passenger.

- Tap or click **Add Contacts** to add passenger contact information.

No SIM 🔤	18:41	100%
🔙 Back	**Book Ticket**	🏠 Home

Outbound Flight, 2013-01-31
Air China CA986

Beijing ✈ Shanghai
↗ 20:30   21:47 ↘

Return Flight, 2013-01-31
Air China CA986

Shanghai ✈ Beijing
↗ 08:43   10:16 ↘

Passengers Info

demo (adult)
Identity Card: 362329198511190099   ❯
Insurance ($5): no

Add Passengers   ➕

Explore the sample: Book Flights

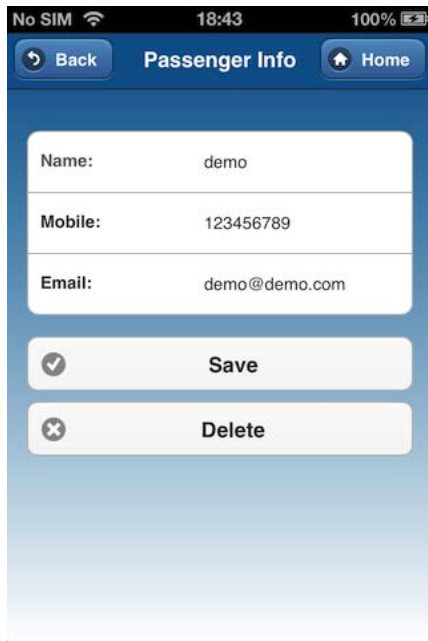- Tap or click an existing passenger on the **Book Ticket** screen to update their details or delete the entry.

Explore the sample: Book Flights

- Tap or click existing contact information on the **Book Ticket** screen to update the details or delete the entry.

No SIM 🔋	18:43	100% 🔋
🔙 Back	**Passenger Info**	🏠 Home

Name:	demo
Mobile:	123456789
Email:	demo@demo.com

✓	Save
✗	Delete

Explore the sample: Book Flights

- Tap or click **Login To Order** at the bottom of the **Book Ticket** screen to continue to the order process.
  - The **Login To Continue** screen is displayed.

- Log in to the app:
  - User name = **demo**
  - Password = **demo**

- Tap or click **Login**.
 - The **Order Summary** screen is displayed.

Explore the sample: Book Flights

- The **Order Summary** screen displays your order details.

No SIM | 18:43 | 100%

Back | **Order Summary** | Home

Please check your order details:

Outbound Flight, 2013-01-31
Air China CA986

Beijing ✈ Shanghai
↗ 09:33   10:46 ↘

Return Flight, 2013-01-31
Air China CA986

Shanghai ✈ Beijing
↗ 09:18   10:46 ↘

Passengers Info

demo (adult)
Identity Card: 362329198511190099
Insurance: no

Contacts Info

Explore the sample: Book Flights

- Tap or click **Pay Now** at the bottom of the **Order Summary** screen to confirm the booking and make payment.

  – An alert is displayed to confirm payment.
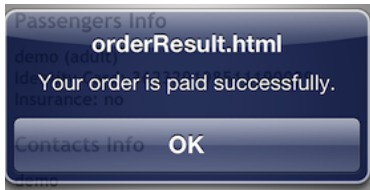
- Tap or click **OK**.

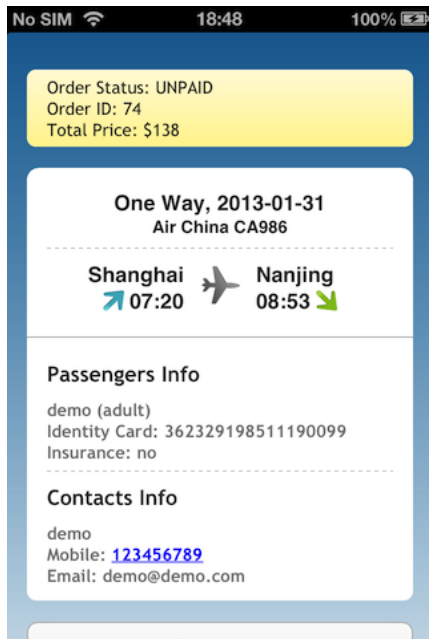 – The **My Orders** screen is displayed.
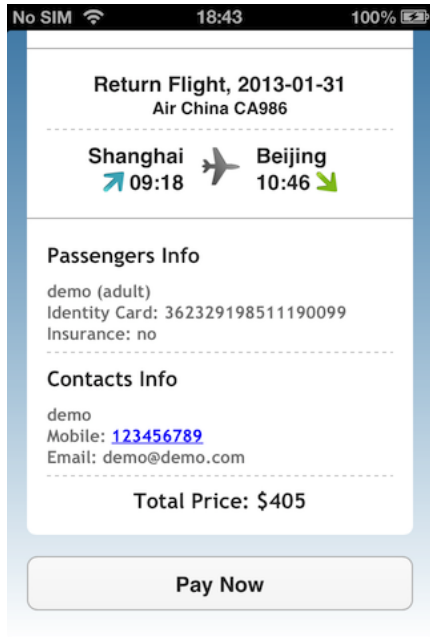
Explore the sample: My Orders

- Tap or click **My Orders** on the main screen to manage your orders.

- If you are not already logged in to the app, log in now:
  - User name = **demo**
  - Password = **demo**

- Tap or click **Login**.
  - The **My Orders** screen displays orders that are grouped by order status.

- Tap or click an order to select it.

No SIM 🔋	18:47	100% 🔋
🔙 Back	**My Orders**	🏠 Home

UNPAID

Shanghai - Nanjing (One Way)
Departure Date: 2013-01-31
Order Status: UNPAID ❯

PAID

Beijing - Shanghai (Outbound)
Departure Date: 2013-01-31
Order Status: PAID ❯

Beijing - Shanghai (One Way)
Departure Date: 2013-01-31
Order Status: PAID ❯

CANCEL

Hangzhou - Chengdu (One Way)
Departure Date: 2013-01-31
Order Status: CANCEL ❯

Explore the sample: My Orders

- The selected order is displayed.

Order Status: UNPAID
Order ID: 74
Total Price: $138

One Way, 2013-01-31
Air China CA986

Shanghai ✈ Nanjing
↗ 07:20   08:53 ↘

Passengers Info

demo (adult)
Identity Card: 362329198511190099
Insurance: no
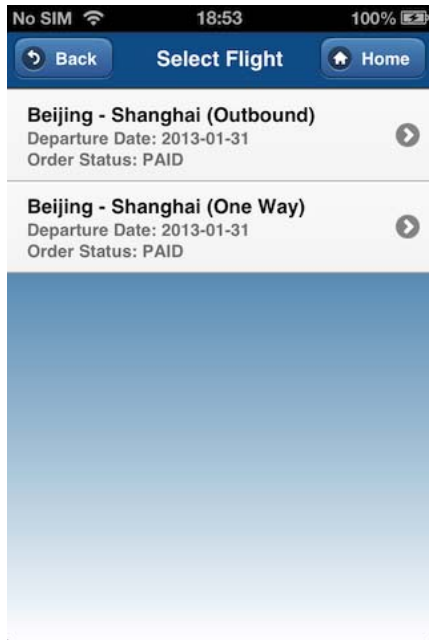
Contacts Info

demo
Mobile: 123456789
Email: demo@demo.com

Explore the sample: My Orders

- Tap or click **Pay Now**, **Cancel**, or **Delete**, to take the specified action on the order.
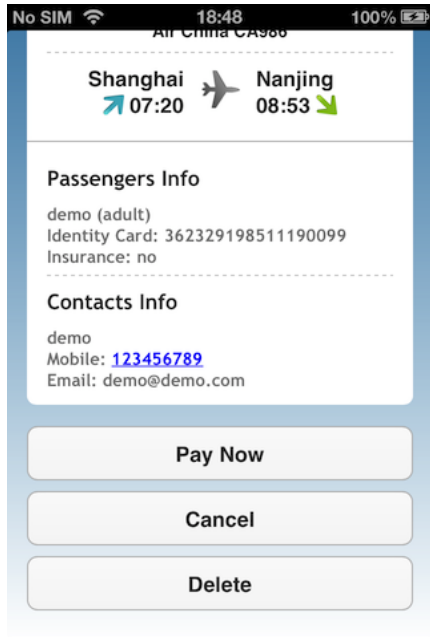
Explore the sample: Check-In

- Tap or click **Check-In** on the main screen to begin the check-in process.

- If you are not already logged in to the app, log in now:
  - User name = **demo**
  - Password = **demo**

- Tap or click **Login**.
  - The **Select Flight** screen displays flights that are paid for.

- Tap or click a flight to select it.

No SIM 🗢	18:53	100% 🔋
⟲ Back	**Select Flight**	🏠 Home

Beijing - Shanghai (Outbound)
Departure Date: 2013-01-31
Order Status: PAID

Beijing - Shanghai (One Way)
Departure Date: 2013-01-31
Order Status: PAID
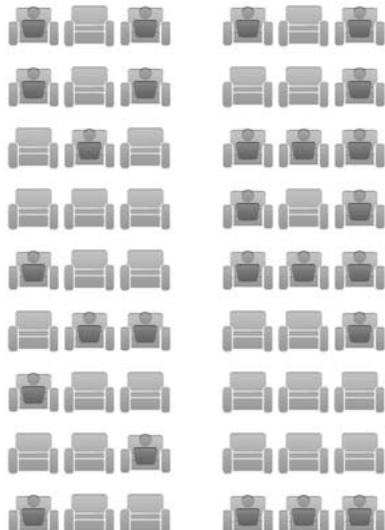
Explore the sample: Check-In

- The **Select Seat** screen displays a seat map.

- Tap or click an empty seat to select it.
  - An alert is displayed to confirm selection.

  You selected seat: 2D
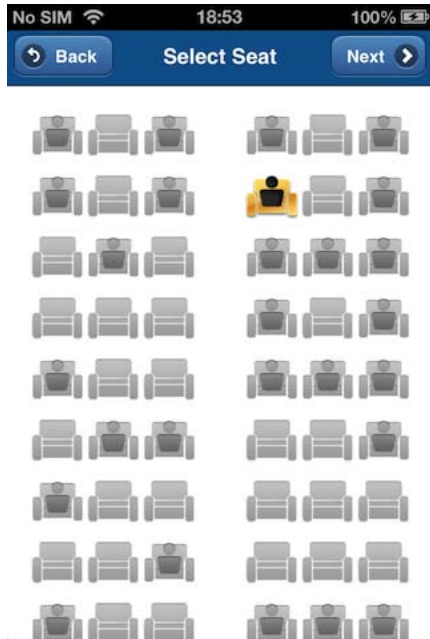
- If you select an occupied seat, a warning is displayed.

  This seat is booked, please choose another one.

  OK

The image at the top right shows the IBM logo.

Explore the sample: Check-In

- Tap or click the seat again to cancel your selection.

- Tap or click another seat to change your selection.

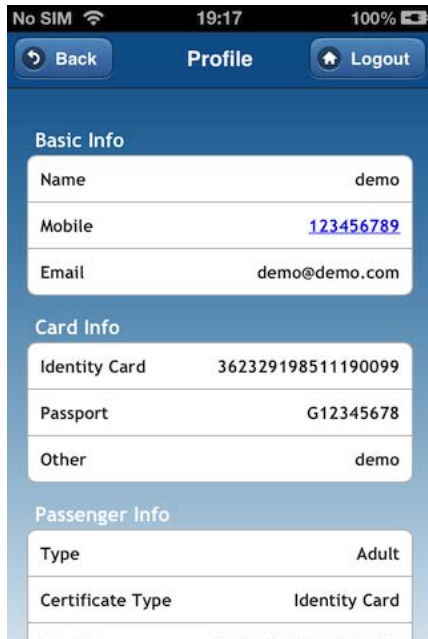- Tap or click **Next** to create your boarding pass.

Explore the sample: Check-In

- The **Boarding Pass** screen displays your boarding pass details.

- The **Boarding Pass** screen also displays a Quick Response Code (QR Code) that contains your boarding pass details in a machine-readable format.

No SIM	18:53	100%

| Back | **Boarding Pass** | Home |

Your boarding pass created.

Boarding pass details:

Flight	CA1520
Departure	Beijing
Destination	Shanghai
Gate	A26
Seat Number	2E

Explore the sample: My Profile

- Tap or click **My Profile** on the main screen to view your profile.

- If you are not already logged in to the app, log in now:
  - User name = **demo**
  - Password = **demo**

- Tap or click **Login**.
  - The **Profile** screen is displayed.

- Tap or click **Logout** if you want to log out of the app.

No SIM 🛜	19:17	100% 🔋
⟲ Back	**Profile**	🏠 Logout

Basic Info

Name	demo
Mobile	123456789
Email	demo@demo.com

Card Info

Identity Card	362329198511190099
Passport	G12345678
Other	demo

Passenger Info

Type	Adult
Certificate Type	Identity Card

Explore the sample: Misc

- Tap or click **Misc** on the main screen to view Flight Ticket sample miscellaneous information.

  - The **Misc** screen is displayed.
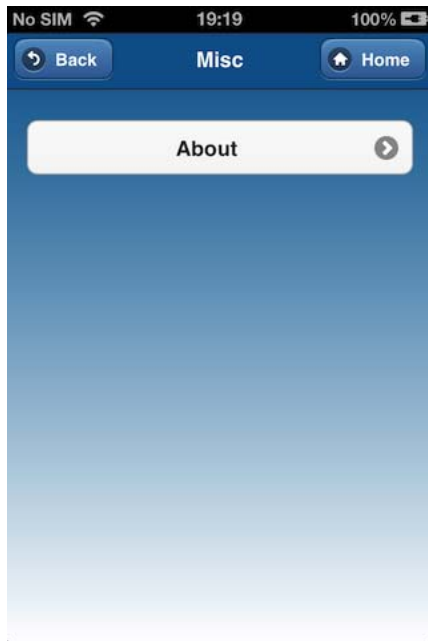
Explore the sample: Misc

- Tap or click **About** to view license information for the Flight Ticket sample.

Notices

- Permission for the use of these publications is granted subject to these terms and conditions.
- This information was developed for products and services offered in the U.S.A.
- IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.
- IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:
  - IBM Director of Licensing
    IBM Corporation
    North Castle Drive
    Armonk, NY 10504-1785
    U.S.A.
- For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:
  - Intellectual Property Licensing
    Legal and Intellectual Property Law
    IBM Japan Ltd.
    1623-14, Shimotsuruma, Yamato-shi
    Kanagawa 242-8502 Japan
- **The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:** INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.
- This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.
- Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.
- IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.
- Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:
  - IBM Corporation
    Dept F6, Bldg 1
    294 Route 100
    Somers NY 10589-3216
    USA

- Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.
- The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.
- Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

COPYRIGHT LICENSE:

- This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs.
- Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:
  - © (your company name) (year). Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. _enter the year or years_. All rights reserved.

Privacy Policy Considerations

- IBM Software products, including software as a service solutions, ("Software Offerings") may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information, specific information about this offering's use of cookies is set forth below.
- Depending upon the configurations deployed, this Software Offering may use session cookies that collect session information (generated by the application server). These cookies contain no personally identifiable information and are required for session management. Additionally, persistent cookies may be randomly generated to recognize and manage anonymous users. These cookies also contain no personally identifiable information and are required.
- If the configurations deployed for this Software Offering provide you as customer the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent. For more information about the use of various technologies, including cookies, for these purposes, see IBM's Privacy Policy at http://www.ibm.com/privacy and IBM's Online Privacy Statement at http://www.ibm.com/privacy/details/en/us sections entitled "Cookies, Web Beacons and Other Technologies" and "Software Products and Software-as-a-Service".

Support and comments

- For the entire IBM Worklight documentation set, training material and online forums where you can post questions, see the IBM website at:
  - http://www.ibm.com/mobile-docs
- **Support**
  - Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at:
    - http://www.ibm.com/software/passportadvantage
  - If you have a Software Subscription and Support in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. For additional details, consult your IBM Software Support Handbook at:
    - http://www.ibm.com/support/handbook
- **Comments**
  - We appreciate your comments about this publication. Please comment on specific errors or omissions, accuracy, organization, subject matter, or completeness of this document. The comments you send should pertain to only the information in this manual or product and the way in which the information is presented.
  - For technical questions and information about products and prices, please contact your IBM branch office, your IBM business partner, or your authorized remarketer.
  - When you send comments to IBM, you grant IBM a nonexclusive right to use or distribute your comments in any way it believes appropriate without incurring any obligation to you. IBM or any other organizations will only use the personal information that you supply to contact you about the issues that you state.
  - Thank you for your support.
  - Submit your comments in the IBM Worklight forums at:
    - https://www.ibm.com/developerworks/mobile/mobileforum.html
  - If you would like a response from IBM, please provide the following information:
    - Name
    - Address
    - Company or Organization
    - Phone No.
    - Email address

Thank You