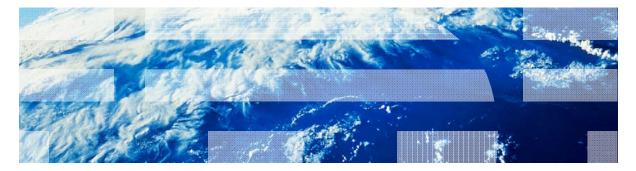


IBM Worklight V6.0.0 Getting Started

Running jQuery Mobile-based Flight Ticket Sample



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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 appearance 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.



Starting the application server

- Start the service by using the following instructions:
 - Deploy the **flightticket.war** file that is provided in module_60_4_FlightTicket to an active application server.
 - 2. Confirm that the FlightTicket application started normally by accessing the URL:
 - http://<host>:<port>/flightticket/
 - The following message on your browser indicates that the service is started and ready to accept requests:
 - simple index.html



Agenda

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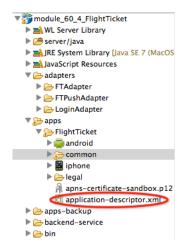
Before you begin – Android (1 of 3)

- Import the sample project into Worklight® Studio.
 - Select the Copy project into workspace check box.
- Build and deploy the HTTP adapters.
- Build and deploy the Android environment.
- For more information about how to build and deploy the sample, see the following modules:
 - Setting up your Worklight development environment
 - Setting up your Android development environment
 - Adapter framework overview
 - HTTP adapter Communicating with HTTP back-end systems



Before you begin – Android (2 of 3)

- Enable Push Notification.
 - The Push Notification feature uses the Google Cloud Messaging (GCM) service.
 - Configure the Showcase to use the GCM service as follows:
 - Follow the instructions at <u>http://developer.android.com/guide/g</u> <u>oogle/gcm/gs.html</u> to create a GCM sender ID and API key. You might have to create a Google Gmail account.
 - Edit the application-descriptor.xml file in the /apps/mysurance folder of the Android project to add the following element:
 <pushSender key="API_key" senderId="GCM_sender_ID"/>





Before you begin – Android (3 of 3)

- Set the <domain> and <port> element in the FTAdapter.xml file and in the LoginAdapter.xml file, in the /adapter folder of the project.
 - Set the <domain> and <port> element to the IP address and port of the Application Server where you deployed the flightticket.war file.





Before you begin – iOS (1 of 4)

- Import the sample project into Worklight® Studio.
 - Select the Copy project into workspace check box.
- Build and deploy the HTTP 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



Before you begin – iOS (2 of 4)

- Enable Push Notification The Push Notification feature uses the Apple Push Notification service (APNs)
- Configure the Showcase to use APNs as follows:
 - Configure the app for APNs with the iOS Provisioning Portal:
 - 1. Create an App ID at the iOS Provisioning Portal.
 - 2. Enable the App ID for APNs.
 - 3. Generate an App ID-specific client Development Push SSL certificate.
 - 4. Create an APNs-enabled provisioning profile for the App ID that you created in step 1.
 - Export the APNs SSL Certificate:
 - 5. Download the certificate that is generated in step 3 onto your MAC.
 - 6. Double-click the certificate (.cer file) to open it in Keychain.
 - 7. Expand "My Certificates", and then expand your certificate.
 - 8. Select the certificate and the private key, and export them as a Personal Information Exchange file with name "apns-certificate-sandbox.p12".
 - 9. Specify a password to protect the certificate.
 - 10. Save apns-certificate-sandbox.p12 into the /apps/FlightTicket folder of the Worklight project.



Before you begin – iOS (3 of 4)

- Configure Worklight Studio:
 - Update the <ipad> and <iphone> sections in the applicationdescriptor.xml file to specify the password that you chose in step 9.
 - <pushSender password="your_pwd"/>
 - 12. Update the **bundleld** attribute of the <ipad> and <iphone> elements in the **application-descriptor.xml** file to match the App ID that you created in step 1.
- Verify the project settings:
 - 13. Open the project in Xcode.
 - 14. Ensure that the App Identifier matches the App ID that you created in step 1, and that the correct provisioning profiles are used to build and sign the application.



Before you begin – iOS (4 of 4)

- Set the <domain> and <port> element in the FTAdapter.xml file and in the LoginAdapter.xml file, in the /adapter folder of the project.
 - Set the <domain> and <port> element to the IP address and port of the Application Server where you deployed the flightticket.war file.





Agenda

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



Known limitations – Android (1 of 2)

- 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 higher:
 - 1. Right-click the generated Android project and then Properties.

	Android			
Resource Android Android Lint Preferences	Project Build Target			
Builders	Target Name	Vendor	Platform	APILevel
Java Build Path	Android 2.2	Android Open Source Project	2.2	8
Java Code Style	Android 4.0.3	Android Open Source Project	4.0.3	15
Java Compiler				
Java Editor				
Javadoc Location				
Links	- Ubrary			
Project Facets	Is Library			
Project References				
Run/Debug Settings	Reference	Protect		Add

- 2. Click Android in the properties list.
- 3. Change Project Build Target to Android 3.0 or above and click OK.



Known limitations – Android (2 of 2)

4. Edit the **AndroidManifest.xml** file in the root folder of the generated project, to set **android:minSdkVersion** to the API level of the Project Build Target.



- The style of the buttons is not rendered correctly on Android 2.3 (CSS gradient as the button background is not fully supported on Android 2.3).
- In the Hotel Details screen, swiping on the hotel photo might not be fluent on Android devices.
- For more information about known limitations and defects, see the IBM Worklight user documentation.



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 more information about known limitations and defects, see the IBM Worklight user documentation.



Agenda

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



Explore the sample

- Load the Flight Ticket sample app.
 - The Login screen is displayed.
- Log in to the app:
 - User name = demo
 - Password = demo
- Click Login.
 - A confirm dialog opens that requests to send notification to you if you did not subscribe before.



Tap or click **OK**. An alert is displayed to confirm the subscription.

IM キ ô	上午11:15	
	Login	Sign u
demo		
••••		
	Login	
	Or	
ୖ	Log in with Weibo	
f	Log in with Facebo	ook
E	Log in with Twitter	



Explore the sample

- Load the Flight Ticket sample app.
 - The main screen is displayed.
- There are six features:
 - Book Flights
 - My Flights
 - Flight Status (not implemented)
 - Special Tickets (not implemented)
 - My Center
 - Travel Assistant

	Ⅰ卡 令 上午 [·]	11:15	5
	Reach Elizabete	X	
2	Book Flights	My Flights \$120 SH - LOD Special Tickets	
1	My Center	Travel Assistant	



- 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.

One Way	Round Trip	
≻ Departure	London	>
▲ Destination	HongKong	>
Departure Date		
🖕 Cabin Class	Economy	>
Se	arch	



- 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

One Way	Round Trip
(
Departure	London
▲ Destination	HongKong
Departure Date	Return Date
May 22 '	^{May} 7u 28
_ Cabin Class	Business)
Se	arch
Sea	arch

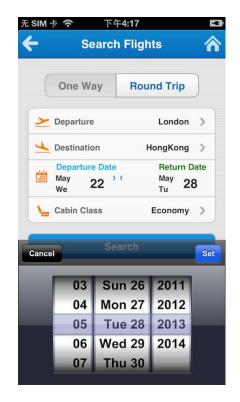


- Departure and Destination airports
 - Tap or click Departure or Destination to display the Select Airport screen.
- The airport list is pre-populated with the most popular airport cities.
 - Tap or click a city to select it.
- Use the Search field to search for a hot city.
 - Search text is not case-sensitive: London, LonDON, or LONDON return the same result.

无 SIM 卡 穼	上午11:16	
←	Select Airport	1
O Search.		
Hot City		
London		
HongKong		
Amsterdam		
Mumbai		



- 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.





- 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.

无 SIM	* ?	上午11:16	· ·
÷	S	elect a Flight	â
	HongKo	ong ≻ Londo	'n
<		d 22 May 201	
	23:15	4 09:45	\$200



- 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.

无 SIM 卡 穼	上午11:16	
÷	Return Flight	â
Lon	idon 🔶 HongKo	ong
K Tue	e 28 May 2013	3 >
AA183 B737	1 02:30	\$200



- The Book Ticket screen displays the following details:
 - Selected flight information
 - Passenger information
- The Flight Ticket sample is prepopulated with one default passenger details.
- Tap or click the upper right button to add a passenger.

无 SIM 卡 穼	上午11:17	F)
(Book Ticket	2+
Outbou	nd Flight, 2013-05-22 AA184	2
HongKo 7 23		
Return	n Flight, 2013-05-28 AA183	
Lond 7 16		9
Passengers	Info	
demo (adult) Identity Card Insurance (\$5	: 362329198511190099): no	0
	Next	



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

Passenger Type:	Adult (> 12) 🚺
Certification Type:	Identity Card 📀
Card No:	362329198511190099
Insurance:	No
0	Save
8	Delete



- Tap or click Next on the Book Ticket screen to continue to the order process.
 - The Order Summary screen is displayed.
- The Order Summary screen displays your order details.

无 SIM 卡 🛜 上午11:17	×
← Order Summary	⋒
Please check your order details:	
Outbound Flight, 2013-05-22 AA184	
HongKong 23:15 Hondon 09:45	
Return Flight, 2013-05-28 AA183	
London → HongKong オ16:00 → 02:30 ¥	
Passengers Info	
demo (adult) Identity Card: 362329198511190099 Insurance: no	
Total Price: \$400	
Pay Now	



- Tap or click Pay Now at the bottom of the Order Summary screen to confirm the booking and make your payment.
 - An alert is displayed to confirm your payment.

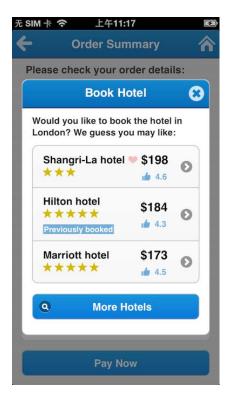


- Tap or click OK.
 - The **Book Hotel** screen is displayed.

无 SIM 卡 穼 上午11:17	¥,
Crder Summary	⋒
Please check your order details:	
Outbound Flight, 2013-05-22 AA184	
HongKong Dondon 23:15 Dondon 09:45	
Return Flight, 2013-05-28 AA183	
London 🔶 HongKong 7 16:00 02:30 🎽	
Passengers Info	
demo (adult) Identity Card: 362329198511190099 Insurance: no	
Total Price: \$400	
Pay Now	



- The Book Hotel screen displays a list of hotels, according to the selected flight.
 - Tap or click a hotel. The Hotel Details screen is displayed.





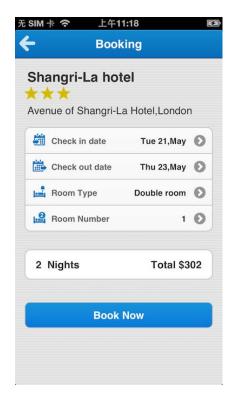
- The Hotel Details screen displays the details information of the selected hotel.
 - Swipe left or right on the photo to see different photos of the hotel.
- Tap or click Next.
 - The **Booking** page is displayed.

无 SIM 卡 🗢 上午11:18	F	
🗲 Shangri-La hotel		
Shangri-La hotel	\$198	
$\star \star \star$	per day	
Avenue of Shangri-La Hotel,London	4.6	
u⊷Gym		
Next		



- Tap or click the following booking options:
 - Check in date to set the date when you check in.
 - Check out date to set the date when you check out.
 - Room Type to set the room type.
 - Room number to set the room number.
- Tap or click Book Now.
 - An alert is displayed to confirm the booking.







- Tap or click My Flights on the main screen to view your flights.
 - The My Flights screen displays your booked flights.
- Tap or click a flight to select it.

无 SIM 卡 🗢 上4	-11:19 📧	
🗲 My Flights 🏠		
22 May 2013 HongKong	坐 London	
22 May 2013	🔟 London	
22 May 2013	ڬ London	
22 May 2013 MongKong	📥 London	
22 May 2013	📥 HongKong	



• The selected flight is displayed.

无 SIM	卡 🗢 上午11:19	¥.
÷	My Flights	<
Flig	ght AA184	
	22 May 2013	
	HongKong 🍌 London	
	15:15 01:45	
	Check In	
		_



- Tap or click the message icon on My Flights screen to view the notifications that relate to the selected flight.
 - The Notifications screen is displayed.

无 SIM 卡 穼	上午11:20	F			
(Notifications	♠			
Q AA184		8			
🐱 The flight	☑ The flight is delayed and will depart at 2…				
	2013-0	5-21 11:13			



- Tap or click the social-share icon on My Flights screen to post a social message.
 - The Share screen is displayed.
- Tap or click Post on Weibo/Facebook/Twitter to post a message to social network.
 - An alert is displayed to confirm the post.





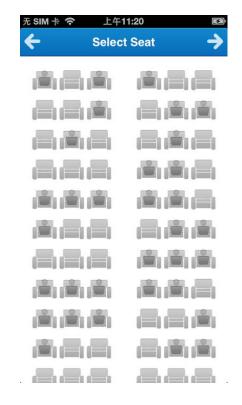


- Tap or click Check In on My Flights screen to check in.
 - The Select Seat screen is displayed.
- Tap or click an empty seat to select it.
 - An alert is displayed to confirm selection.

You selected seat: 2D

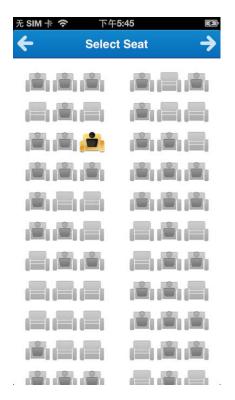
 If you select an occupied seat, a warning is displayed.

This seat is booked, please choose another one.





- Tap or click the seat again to cancel your selection.
- Tap or click another seat to change your selection.
- Tap or click the right arrow → to create your boarding pass.





- 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 machinereadable format.

无 SIM 卡 🗢	上午 11:20	Ež.			
E Bo	🗲 Boarding Pass 🏠				
Flight AA184	Flight AA184				
HongKon	HongKong ≻ London				
Terminal	Gate	Seat			
T3	B38	23H			
Boarding		Departure			
14:45		15:15			
22 May 2013					
demo					
107007011 107007011					

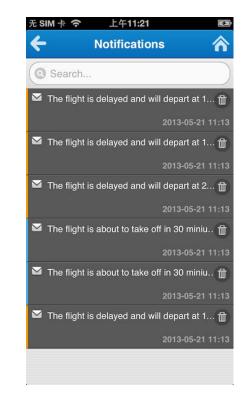


- Tap or click My Center on the main screen to view your profile.
 - The **Profile** screen is displayed.
- Tap or click Logout to log out of the app.
- Tap or click the message icon to view all notifications.
 - The Notifications screen is displayed.

	Profile	
Basic Info		
Name	demo	
Mobile	123456789	
Email	demo@demo.com	
Card Info		
Identity Card	362329198511190099	
Passport	G12345678	
Other	demo	
Passenger Info		
Туре	Adult	
Certificate Type	Identity Card	
Card No	362329198511190099	
Insurance	No	



- The Notifications screen displays all the notifications. There are three types of notifications.
 - Tap or click a notification to expand it.
 - Tap or click the **delete** icon to remove the notification.
- Use the **Search** field to search for the notifications of a specific flight.
 - Type a flight number in the search box.





- Server Notification
 - Go to the Flight Ticket server to send a notification: http://<host>:<port>/flightticket/notification.html
 - Set the Flight Number.
 - Select a Message Type: Delayed or Reminder.
 - Set the Worklight Server address.
 - Click **Post Message**.

Post Message:	
Flight Number: AA183 \$	
Message Type: Delayed	\$
Worklight Server Address:	localhost:10080/module_60_4_Flight
Post Message	



- Client Notification:
 - If the app is running in the foreground, an alert informs you that you received a new message.



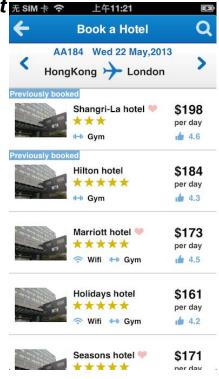
- If the app is not running, the notification is displayed in the status bar.
 - Click the notification to wake up the app





Explore the sample: Travel Assistant **ESIN** # 7

- Tap or click Travel Assistant on the main screen to search/book a hotel.
 - The Book a Hotel screen displays a hotel list near to the airport of your flights.
- Tap or click a hotel to book the hotel.
- Tap or click the search icon to search hotels.
 - The Search Hotel screen is displayed.





Explore the sample: Travel Assistant **ESIM***

- The Search Hotel screen is to search hotels of a city with different options:
 - Near Airport, Downtown, or Shopping Mall

无 SIM 卡 穼	上午11:21	Ŧ
<	Search Hote	1
Destination		
O London		
Near		
Airport	Downtown	Shopping Mall
	Search	



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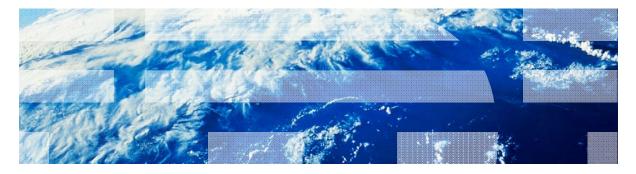
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