

**SG**   
**VIRTUAL**  
**CONFERENCE**  
**6ta edición**

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# Desarrollo Nativo v.s. HTML5

## Nativo

- **Lo bueno**
  - Mejor rendimiento
  - Mejor UX
- **Lo malo**
  - Un equipo de desarrollo por cada plataforma
- **Lo feo**
  - Es mas caro y difícil para desarrollar

## Html 5

- **Lo bueno**
  - Un único desarrollo para todas las plataformas
  - Más facil y económico de desarrollar
- **Lo malo**
  - Menor rendimiento
- **Lo feo**
  - La UX no es perfecta

# ¿Que es Intel XDK?

- Es una plataforma para desarrollo de aplicaciones HTML5
  - IDE
  - Emulador
  - Depuración local
  - Depuración en dispositivo
  - Publicación
- <http://xdk-software.intel.com/>
- El App preview se descarga desde appstore o google play.



# Vias para empezar

XDK

Intel XDK 0154

### START NEW APP

- Start with a Blank Project
- Work with a Demo
- Import an Existing App
- Use App Starter
- Start with App Designer
- Open a Project

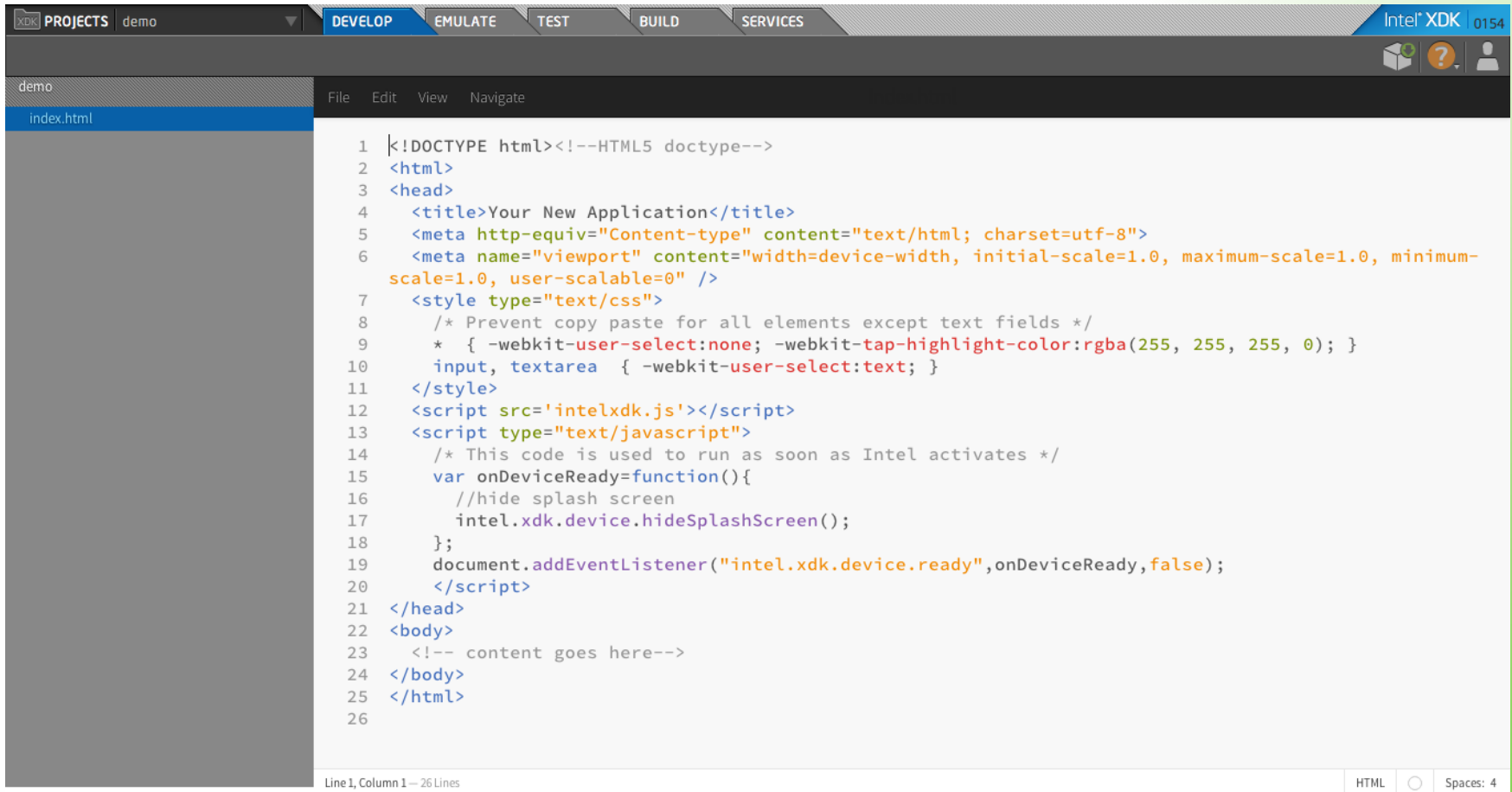
Create an app from a starter HTML file and a JavaScript library for device APIs. Continue developing using the built-in editor or your own editor.

Name your project

Project Location  **BROWSE**

**CANCEL** **CREATE**

# Vistazo General



The screenshot shows the Intel XDK IDE interface. The top menu bar includes PROJECTS (demo), DEVELOP, EMULATE, TEST, BUILD, and SERVICES. The right side of the top bar shows 'Intel XDK 0154' and icons for help, search, and user profile. The main editor area displays the code for 'index.html'.

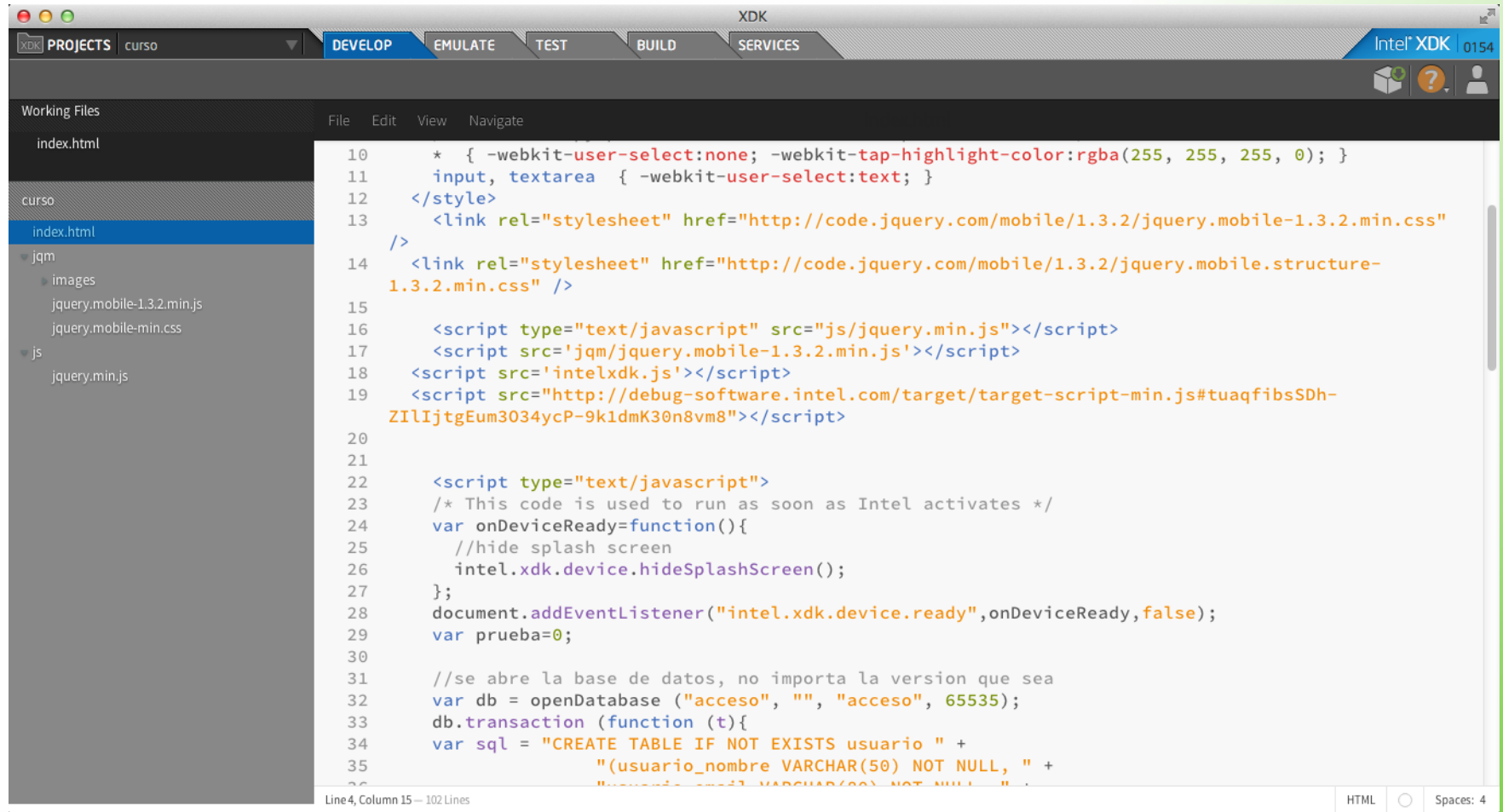
```
1 <!DOCTYPE html><!--HTML5 doctype-->
2 <html>
3 <head>
4   <title>Your New Application</title>
5   <meta http-equiv="Content-type" content="text/html; charset=utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, minimum-
7     scale=1.0, user-scalable=0" />
8   <style type="text/css">
9     /* Prevent copy paste for all elements except text fields */
10    * { -webkit-user-select:none; -webkit-tap-highlight-color:rgba(255, 255, 255, 0); }
11  </style>
12  <script src='intelxdk.js'></script>
13  <script type="text/javascript">
14    /* This code is used to run as soon as Intel activates */
15    var onDeviceReady=function(){
16      //hide splash screen
17      intel.xdk.device.hideSplashScreen();
18    };
19    document.addEventListener("intel.xdk.device.ready",onDeviceReady,false);
20  </script>
21 </head>
22 <body>
23   <!-- content goes here-->
24 </body>
25 </html>
26
```

Line 1, Column 1 – 26 Lines | HTML | Spaces: 4

## Mediante el Bride de XDK se puede acceder a los servicios del dispositivo como objetos javascript

- Accelerometro
- Cache
- Cámara
- Canvas
- Contactos
- Display
- Archivos
- Facebook
- Geolocalizacion
- Multitouch
- Notificaciones
- Jugador
- Playingtrack
- Propiedades para detectar el entorno

# Integración con jQuery Mobile



The screenshot shows the Intel XDK IDE interface. The top bar includes 'XDK' and 'Intel XDK 0154'. The main window is titled 'index.html' and contains the following code:

```
10  * { -webkit-user-select:none; -webkit-tap-highlight-color:rgba(255, 255, 255, 0); }
11  input, textarea { -webkit-user-select:text; }
12  </style>
13  <link rel="stylesheet" href="http://code.jquery.com/mobile/1.3.2/jquery.mobile-1.3.2.min.css"
/>
14  <link rel="stylesheet" href="http://code.jquery.com/mobile/1.3.2/jquery.mobile.structure-
1.3.2.min.css" />
15
16  <script type="text/javascript" src="js/jquery.min.js"></script>
17  <script src='jqm/jquery.mobile-1.3.2.min.js'></script>
18  <script src='intelxdk.js'></script>
19  <script src="http://debug-software.intel.com/target/target-script-min.js#tuaqfibsSDh-
ZlIjtgEum3034ycP-9k1dmK30n8vm8"></script>
20
21
22  <script type="text/javascript">
23  /* This code is used to run as soon as Intel activates */
24  var onDeviceReady=function(){
25      //hide splash screen
26      intel.xdk.device.hideSplashScreen();
27  };
28  document.addEventListener("intel.xdk.device.ready",onDeviceReady,false);
29  var prueba=0;
30
31  //se abre la base de datos, no importa la version que sea
32  var db = openDatabase ("acceso", "", "acceso", 65535);
33  db.transaction (function (t){
34      var sql = "CREATE TABLE IF NOT EXISTS usuario " +
35              "(usuario_nombre VARCHAR(50) NOT NULL, " +
36              "usuario_email VARCHAR(50) NOT NULL, " +
```

The status bar at the bottom indicates 'Line 4, Column 15 - 102 Lines', 'HTML', and 'Spaces: 4'.



# Un ejemplo sencillo

- Crear una aplicación que guarde datos en la base de datos locales, consulte una url externa y deje pistas de log



# Base de datos

- `var db = openDatabase ("acceso", "", "acceso", 65535);`
- `db.transaction (function (t){`
- `var sql = "CREATE TABLE IF NOT EXISTS usuarios " +`
- `"(usuario_nombre VARCHAR(50) NOT NULL, " +`
- `"usuario_email VARCHAR(80) NOT NULL, " +`
- `"usuario_nivel INT(10) NOT NULL, " +`
- `"user_api_key VARCHAR(120) NOT NULL)";`
- `t.executeSql (sql, undefined, function (){`
- `$("#mensajes_form").append("<p class='mensaje'>Creo la tabla de`
- `usuarios</p>");`
- `}, error);`
- `});`
- `function error (transaction, err){`
- `alert ("DB error : " + err.message);`
- `$("#mensajes_form").append("<p class='mensaje'>Error de base de datos`
- `" + err.message + "</p>");`
- `return false;`
- `};`

# Insert y Ajax

```
$(document).ready(function(){
    $("#btn_test").click(function(){
        alert("Hola Mundo");
        prueba++;
        console.log(prueba);
        db.transaction(function(transaction){
            ins="INSERT INTO usuario (usuarios_nombre,usuario_email,usuario_nivel,user_api_key)
values('"+$("#user").val()+ "','"+$("#email").val()+ "','1','5678')";
            transaction.executeSql(ins,undefined,function(){
                $("#mensajes_form").append("<p class='mensaje'>Se actualiz&oacute; el usuario</p>");
            },error);
        });//db.transaction
    })
    $("#btn_cp").click(function(){
        var datos="cp="+$("#cp").val();
        $.ajax({
            type: "GET",
            url:"http://madhouse.com.mx/mad_services/index.php/direccion/info_cp.json",
            data: datos,
            cache: false,
            dataType: 'json',
            success: function(data){
                alert(data[0].colonia_nombre);
            },
            error: function(data){
                alert(data);
            }
        });//ajax
    })
})
```

# Emular y depurar localmente

The screenshot shows the Intel XDK interface. On the left is a mobile emulator displaying a form with fields for 'Usuario', 'Email', and 'Indique C.P.'. The 'Email' field contains 'daniel@madhouse.com.n'. The main area shows the 'Developer Tools' with the 'Elements' panel expanded to 'usuarios'. A table of data is visible:

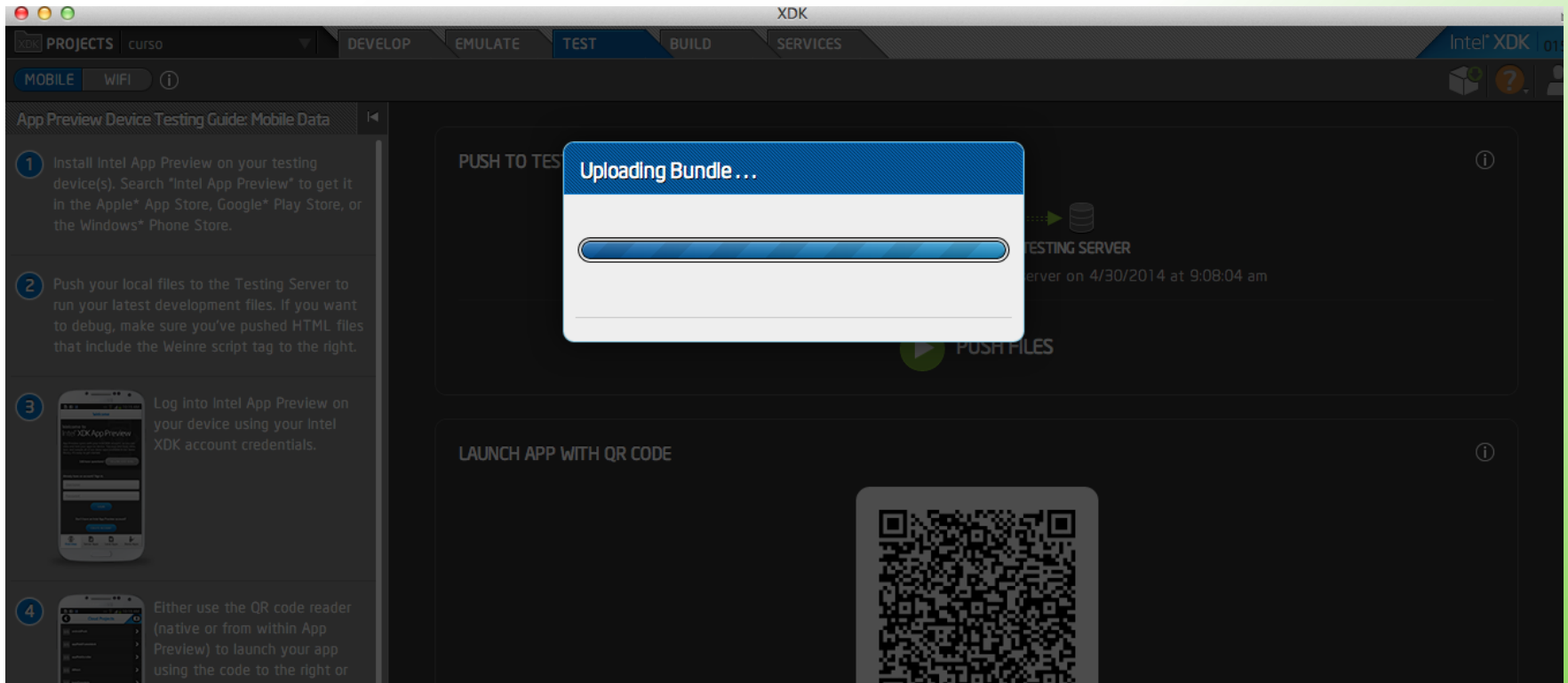
usuario_nombre	usuario_email	usuario_nivel	user_api_key
daniel	daniel@madhouse.com.mx	1	5678

This screenshot shows the 'Computed Style' and 'Elements' panels. The 'Computed Style' panel shows rules for 'mobile body' and 'viewport'. The 'Elements' panel shows the HTML structure of the form, including input fields and buttons. The HTML code is as follows:

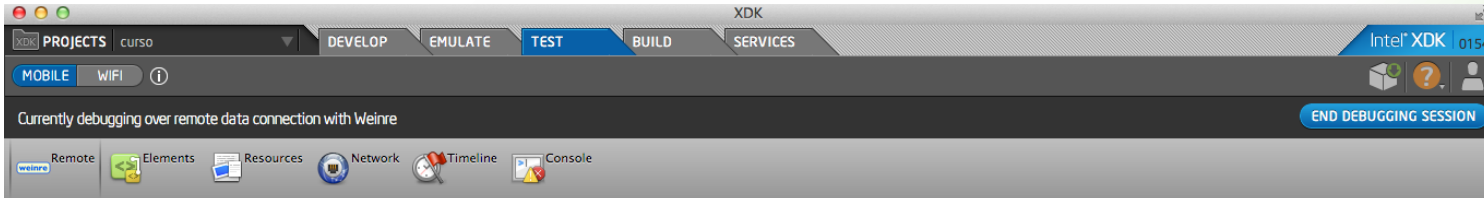
```

<!-- content goes here-->
<label for="user" class="ui-input-text">Usuario</label>
<div class="ui-input-text ui-shadow-inset ui-corner-all ui-btn-shadow ui-body-c"></div>
<label for="email" class="ui-input-text">Email</label>
<div class="ui-input-text ui-shadow-inset ui-corner-all ui-btn-shadow ui-body-c"></div>
<div data-corners="true" data-shadow="true" data-iconshadow="true" data-wrappercls="span" data-icon="alert" data-iconpos="top" data-theme="c" data-disabled="false" class="ui-btn ui-shadow ui-btn-corner-all ui-btn-icon-top ui-btn-up-c" aria-disabled="false"></div>
<div id="mensajes_form"></div>
<label for="cp" class="ui-input-text">Indique C.P.</label>
<div class="ui-input-text ui-shadow-inset ui-corner-all ui-btn-shadow ui-body-c"></div>
<div data-corners="true" data-shadow="true" data-iconshadow="true" data-wrappercls="span" data-icon="camera" data-iconpos="top" data-theme="c" data-disabled="false" class="ui-btn ui-shadow ui-btn-corner-all ui-btn-icon-top ui-btn-up-c" aria-disabled="false"></div>
<div class="ui-loader ui-corner-all ui-body-a ui-loader-
  
```

# Testing en dispositivo



# Testing en dispositivo



## Targets

- 189.217.225.179 [channel: t-70969 id: tuaqfibsSDh-ZlllJtgEum3O34ycP-9k1dmK30n8vm8] - <http://localhost:58888/tuaqfibsSDh-ZlllJtgEum3O34ycP-9k1dmK30n8vm8/4.0.0/index.html>

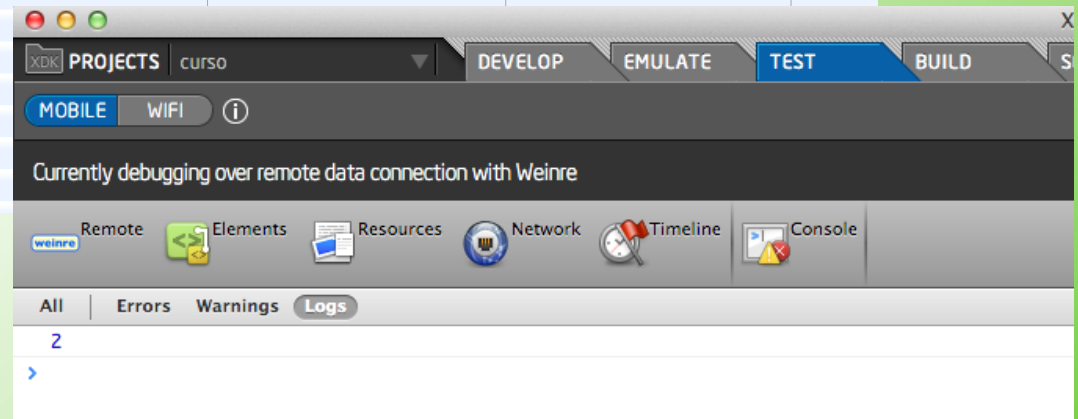
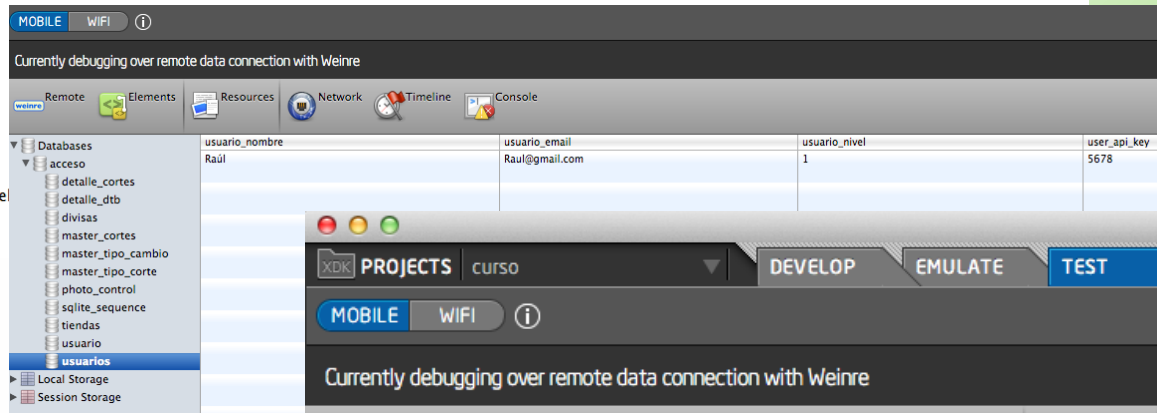


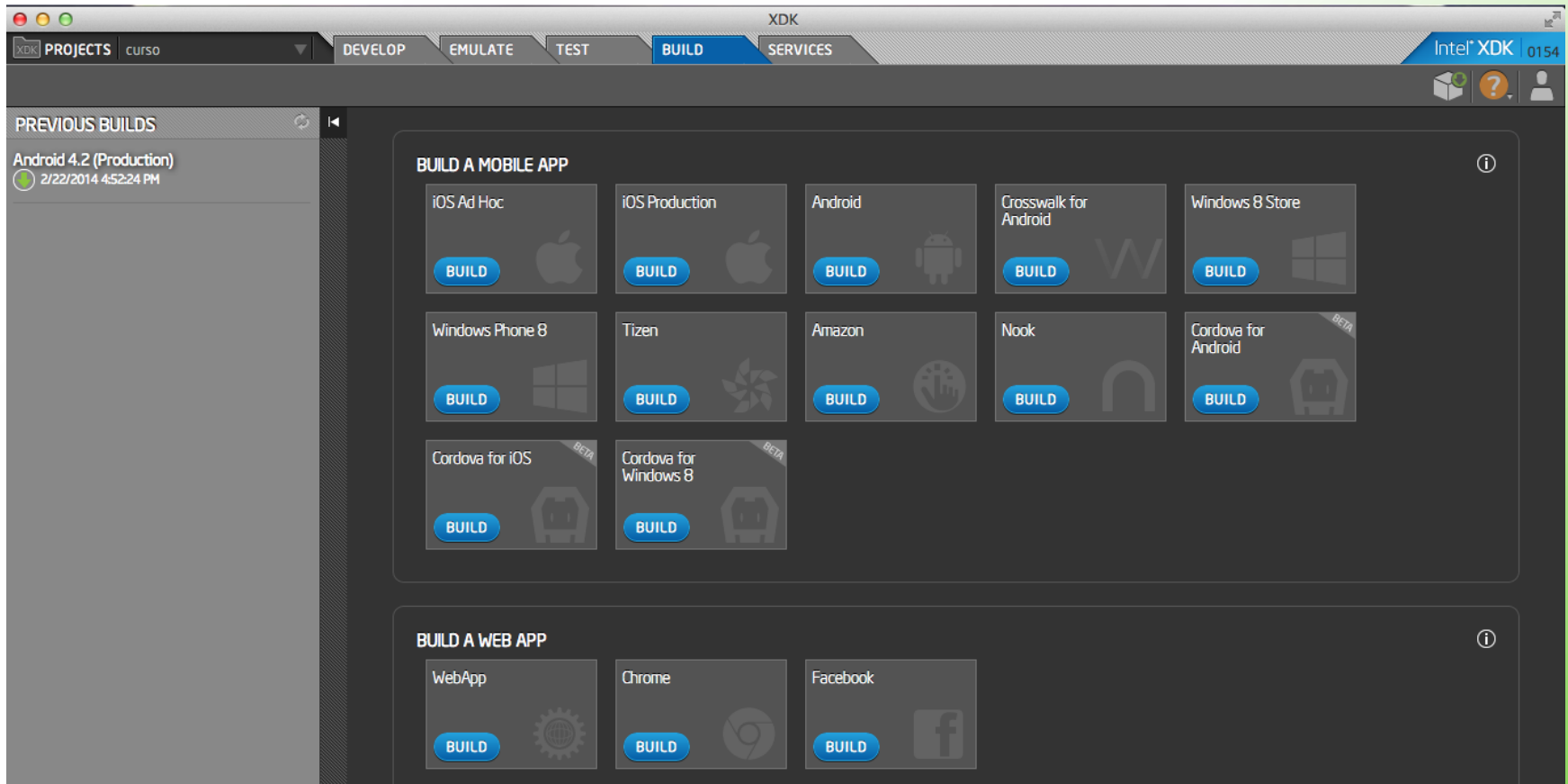
## Clients

- 189.217.225.179 [channel: c-70978 id: tuaqfibsSDh-ZlllJtgEum3O34ycP-9k1dmK30n8vm8]

## Server Properties

```
boundHost: -all-
deathTimeout: 5
debug: false
httpPort: 80
readTimeout: 1
reuseAddr: true
staticWebDir: /usr/lib/node_modules/weinre/we
verbose: false
version: 2.0.0-pre-HH0SN197
```





# Firma de aplicaciones

The screenshot shows the Intel XDK interface with the following elements:

- Navigation Bar:** XDK PROJECTS curso, DEVELOP, EMULATE, TEST, BUILD, SERVICES, Intel XDK 0154.
- Workflow:** iOS CSR > Upload Certificate > Obtain App ID (highlighted in red).
- Step 5a: IOS CERTIFICATE SIGNING REQUEST (CSR)**
  - Text: "IOS apps must be digitally signed with a certificate and private key pair."
  - Text: "Ready to upload your CSR? Visit the Apple Developer's Site to launch their site in a new tab. Complete the steps outlined in our screenshot walkthrough and return to this page to continue."
  - Text: "Your CSR has been generated. Click the download button to retrieve it." with a green "download" button.
- Step 5b: UPLOAD CERTIFICATE**
  - Text: "You must upload either the Certificate generated with the Certificate Signing Request (created in the previous step) or a P12 file containing both the Distribution certificate and private key pair."
  - Text: "If you have an existing certificate/private key, it can be exported in the P12 file format using the Apple Keychain Access Application on your Mac. Take a look at our walkthrough on how to export a P12 file. If you choose to use a P12 file you will be prompted for the password you used when it was exported."
  - Text: "Certificate uploaded. Click the browse button to upload a new certificate." with a blue "browse" button.
- Step 5c: OBTAIN APP I.D.**
  - Text: "Paste the bundle I.D. (below) in the 'Bundle Identifier' field on the Apple Developer Site."
  - Text input field containing: `com.danielmadhouse.com.mx.curso`
  - Text: "Ready to obtain your App I.D. from the Apple Developer's Site? Click to their site tab, complete the steps outlined in our screenshot walkthrough and return to this page to continue."
- APPLE DEVELOPMENT BUILD Panel:**
  - Team name : `daniel@madhouse.com.mx`
  - Current App : `curso`
  - Current Release : `4.0.0`
  - Platform : `Apple - Adhoc`
  - Device : `iPhone (OS 4.3)`
  - Apps in Development : `9`



The logo for the SG Virtual Conference 6th Edition. It features the letters 'SG' in a large, bold, green font. To the right of 'SG' is a green globe icon. Below 'SG' and the globe, the word 'VIRTUAL' is written in a smaller, green, sans-serif font. Below 'VIRTUAL', the word 'CONFERENCE' is written in a larger, bold, green, sans-serif font. At the bottom of the logo, the text '6ta edición' is written in a green, sans-serif font. The background of the slide features a faint, stylized globe graphic.

**SG**   
**VIRTUAL**  
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Desarrollo de Aplicaciones  
para Móviles con Intel XDK

Presentado por:  
Daniel Garnier