



무료 전자 책

배우기

ionic2

Free unaffiliated eBook created from
Stack Overflow contributors.

#ionic2

	1
1: ionic2	2
	2
Examples	2
	2
1. 2	2
EACCES	2
2.	2
!	2
3.	3
2: 'show-delete'	5
Examples	5
	5
3: AngularFire2 / Firebase	8
Examples	8
Angularfire2 / Firebase Facebook	8
4: AngularFire2 with Ionic2	10
	10
Examples	10
AngularFire	10
AngularFire2	10
5: InAppBrowser	11
	11
Examples	11
	11
InAppBrowser	11
6: Ionic2 CSS	12
Examples	12
	12
	12
7: Visual Studio Ionic 2	13

.....	13
Examples.....	13
VSCode	13
VSCode	13
.....	13
8:	17
.....	17
Examples.....	17
/	17
9:	22
Examples.....	22
.....	22
10:	23
Examples.....	23
.....	23
:.....	24
:.....	26
11: OnInit	28
.....	28
Examples.....	28
Http	28
ngOnInit	28
ngOnInit /	28
12:	29
.....	29
Examples.....	29
.....	29
13:	32
.....	32
Examples.....	32
.....	32

14:	.....	33
Examples.....	.....	33
.....	.....	33
.....	.....	33
15: - Android.....	.....	35
.....	.....	35
Examples.....	.....	35
.....	.....	35
16: .....	.....	37
.....	.....	37
Examples.....	.....	37
.....	.....	37
selectedIndex .....	.....	38
17: .....	.....	40
.....	.....	40
Examples.....	.....	40
.....	.....	40
.....	.....	40
.....	.....	40
.....	.....	41

You can share this PDF with anyone you feel could benefit from it, download the latest version from: [ionic2](#)

It is an unofficial and free ionic2 ebook created for educational purposes. All the content is extracted from [Stack Overflow Documentation](#), which is written by many hardworking individuals at Stack Overflow. It is neither affiliated with Stack Overflow nor official ionic2.

The content is released under Creative Commons BY-SA, and the list of contributors to each chapter are provided in the credits section at the end of this book. Images may be copyright of their respective owners unless otherwise specified. All trademarks and registered trademarks are the property of their respective company owners.

Use the content presented in this book at your own risk; it is not guaranteed to be correct nor accurate, please send your feedback and corrections to info@zzzprojects.com

1: ionic2

Ionic 2 . . . , . JavaScript / Typescript, Angular 2, HTML CSS (SCSS / LESS) .
Ionic2 >=android 4.4 , android 4.1 android 4.3 .

Examples

2 .
: 2 NodeJS . npm Ionic 2 .

1. 2

Ionic 1 Ionic CLI GUI . Ionic 1 !

2 npm .

```
$ npm install -g ionic
```

EACCES .

2.

CLI .

```
$ ionic start MyIonic2Project
```

. :

```
$ ionic start MyIonic2Project tutorial  
$ cd MyIonic2Project  
$ npm install
```

ionic serve -lc .

```
$ ionic serve -lc
```

-l -c . package.json ionic2-app-base .

!

3.

Cordova

```
$ npm install -g cordova
```

iOS iOS (: OSX iOS) Android Genymotion

iOS :

iOS OSX . iOS . . . :

```
$ ionic cordova platform add ios
```

iOS Xcode

```
$ ionic cordova run ios
```

Android :

Android . .

```
$ ionic cordova platform add android
```

Android Android SDK . Android SDK . . Genymotion

```
$ ionic cordova run android
```

! 2 !

. /

iOS :

```
$ ionic cordova emulate ios -lcs
```

iOS 9.2.2 . livereload config.xml

```
<allow-navigation href="*"/>
```

```
<platform name="ios"> :
```

```
<config-file parent="NSAppTransportSecurity" platform="ios" target="*-Info.plist">
<dict>
```

```
<key>NSAllowsArbitraryLoads</key>
<true/>
</dict>
</config-file>
```

Android :

```
$ ionic cordova run android -lcs
```

l , c s . / .

Windows

Windows Windows . ionic2 Windows .

```
$ionic cordova platform add windows
```

```
$ionic cordova run windows
```

```
$ionic serve
```

.()

```
chrome://inspect/#devices
```

ionic2 : <https://riptutorial.com/ko/ionic2/topic/3632/ionic2->

2: 'show-delete'

Examples

Angular 2 .

```
- 2      . ion-item-sliding ion-item .  
- ion-item .  
, 2 . .  
:  
.html :
```

```
<ion-header>  
  <ion-navbar>  
    <ion-buttons start (click)="manageSlide()">  
      <button>  
        <ion-icon name="ios-remove"></ion-icon>  
      </button>  
    </ion-buttons>  
    <ion-title>PageName</ion-title>  
  </ion-navbar>  
</ion-header>
```

```
:  
  
<ion-list #list1>  
  <ion-item-sliding #slidingItem *ngFor="let contact of contacts | sortOrder">  
    <button #item ion-item>  
      <p>{{ item.details }}</p>  
      <ion-icon id="listIcon" name="arrow-forward" item-right></ion-icon>  
    </button>  
    <ion-item-options side="left">  
      <button danger (click)="doConfirm(contact, slidingItem)">  
        <ion-icon name="ios-remove-circle-outline"></ion-icon>  
        Remove  
      </button>  
    </ion-item-options>  
  </ion-item-sliding>  
</ion-list>
```

.ts .

```
import { ViewChild } from '@angular/core';  
import { Item } from 'ionic-angular';  
import { ItemSliding, List } from 'ionic-angular';
```

ViewChild html .

```
@ViewChild(List) list: List;  
  
.  
  
public manageSlide() {  
  
    //loop through the list by the number retreived of the number of ion-item-sliding in the  
list  
    for (let i = 0; i < this.list.nativeElement.children.length; i++) {  
  
        // retreive the current ion-item-sliding  
        let itemSlide = this.list.nativeElement.children[i].$ionComponent;  
  
        // retreive the button to slide within the ion-item-sliding  
        let item = itemSlide.item;  
  
        // retreive the icon  
        let ic = item._elementRef.nativeElement.children[0].children[1];  
  
        if (this.deleteOpened) {  
            this.closeSlide(itemSlide);  
        } else {  
            this.openSlide(itemSlide, item, ic);  
        }  
    }  
  
    if (this.deleteOpened) {  
        this.deleteOpened = false;  
    } else {  
        this.deleteOpened = true;  
    }  
}  
  
:  
  
private openSlide(itemSlide: ItemSliding, item: Item, inIcon) {  
    itemSlide.setCssClass("active-sliding", true);  
    itemSlide.setCssClass("active-slide", true);  
    itemSlide.setCssClass("active-options-left", true);  
    item.setCssStyle("transform", "translate3d(72px, 0px, 0px)")  
}  
  
:  
  
private closeSlide(itemSlide: ItemSliding) {  
    itemSlide.close();  
    itemSlide.setCssClass("active-sliding", false);  
    itemSlide.setCssClass("active-slide", false);  
    itemSlide.setCssClass("active-options-left", false);  
}  
}
```

...
'show-delete' : <https://riptutorial.com/ko/ionic2/topic/6620/-show-delete----ion-list-->

3: AngularFire2 / Firebase

Examples

Angularfire2 / Firebase Facebook

app.ts

```
import {Component} from '@angular/core';
import {Platform, ionicBootstrap} from 'ionic-angular';
import {StatusBar} from 'ionic-native';
import {LoginPage} from './pages/login/login';
import {FIREBASE_PROVIDERS, defaultFirebase, AuthMethods, AuthProviders, firebaseAuthConfig}
from 'angularfire2';

@Component({
  template: '<ion-nav [root]="'rootPage'"></ion-nav>'
})

export class MyApp {

  private rootPage: any;

  constructor(private platform: Platform) {
    this.rootPage = LoginPage;

    platform.ready().then(() => {
      // Okay, so the platform is ready and our plugins are available.
      // Here you can do any higher level native things you might need.
      StatusBar.styleDefault();
    });
  }
}

ionicBootstrap(MyApp, [
  FIREBASE_PROVIDERS,
  defaultFirebase({
    apiKey: myAppKey,
    authDomain: 'myapp.firebaseio.com',
    databaseURL: 'https://myapp.firebaseio.com',
    storageBucket: 'myapp.appspot.com',
  }),
  firebaseAuthConfig({})
]);
```

login.html

```
<ion-header>
  <ion-navbar>
    <ion-title>Home</ion-title>
  </ion-navbar>
</ion-header>

<ion-content padding class="login">
  <button (click)="facebookLogin()">Login With Facebook</button>
```

```
</ion-content>
```

login.ts

```
import {Component} from '@angular/core';
import {Platform} from 'ionic-angular';
import {AngularFire, AuthMethods, AuthProviders} from 'angularfire2';
import {Facebook} from 'ionic-native';

declare let firebase: any; // There is currently an error with the Firebase files, this will
fix it.

@Component({
  templateUrl: 'build/pages/login/login.html'
})
export class LoginPage {

  constructor(private platform: Platform, public af: AngularFire) {

  }

  facebookLogin() {
    Facebook.login(['public_profile', 'email', 'user_friends'])
      .then(success => {
        console.log('Facebook success: ' + JSON.stringify(success));
        let creds =
          firebase.auth.FacebookAuthProvider.credential(success.authResponse.accessToken);
        this.af.auth.login(creds, {
          provider: AuthProviders.Facebook,
          method: AuthMethods.OAuthToken,
          remember: 'default',
          scope: ['email']
        }).then(success => {
          console.log('Firebase success: ' + JSON.stringify(success));
        }).catch(error => {
          console.log('Firebase failure: ' + JSON.stringify(error));
        });
      })
      .catch(error => {
        console.log('Facebook failure: ' + JSON.stringify(error));
      });
  }
}
```

Angularfire2 / Firebase : <https://riptutorial.com/ko/ionic2/topic/5518/angularfire2---firebase--->

4: AngularFire2 with Ionic2

AngularFire2 Ionic App .

Examples

AngularFire

```
const firebaseConfig = {  
  apiKey: 'XXXXXXXXXXXX',  
  authDomain: 'XXXXXXXXXXXX',  
  databaseURL: 'XXXXXXXXXXXX',  
  storageBucket: 'XXXXXXXXXXXX',  
  messagingSenderId: 'XXXXXXXXXXXX'  
};
```

firebase .

```
imports: [  
  AngularFireModule.initializeApp(firebaseConfig),  
  AngularFireDatabaseModule,  
  AngularFireAuthModule  
,
```

AngularFire2

```
import { AngularFireDatabase } from 'angularfire2/database';  
constructor (private _af: AngularFireDatabase) {}
```

Observable List . root / items / food .

```
this._af.list('root/items/food');
```

firebase . .

```
this._af.list('root/items/food').push(myItemData);  
this._af.list('root/items/food').update(myItem.$key, myNewItemData);
```

```
this._af.list('root/items/food').remove(myItem.$key);
```

Angularfire2 with Ionic2 : <https://riptutorial.com/ko/ionic2/topic/10918/angularfire2-with-ionic2>

5: InAppBrowser

. InAppBrowser / InAppBrowser . InAppBrowser .

Examples

:

InAppBrowser . / webapp .

InAppBrowser

```
platform.ready().then(() => {
  // Okay, so the platform is ready and our plugins are available.
  // Here you can do any higher level native things you might need.
  var url= "https://blog.knoldus.com/";
  var browserRef = window.cordova.InAppBrowser.open(url, "_self", "location=no",
"toolbar=no");
  browserRef.addEventListener("exit", (event) => {
    return navigator["app"].exitApp();
  }
);
```

InAppBrowser : <https://riptutorial.com/ko/ionic2/topic/9801/inappbrowser>

6: Ionic2 CSS

Examples

Ionic Ionic CSS flexbox . , . . .

-10	10 %
-20	20 %
-25	25 %
-33	33.3333 %
-50	50 %
-67	66.6666 %
-75	75 %
-80	80 %
-90	90 %

```
<ion-grid>
  <ion-row>
    <ion-col width-10>This column will take 10% of space</ion-col>
  </ion-row>
</ion-grid>
```

```
<ion-card>
  <ion-card-header>
    Header
  </ion-card-header>
  <ion-card-content>
    The British use the term "header", but the American term "head-shot" the English
    simply refuse to adopt.
  </ion-card-content>
</ion-card>
```

Ionic2 CSS : <https://riptutorial.com/ko/ionic2/topic/8011/ionic2-css-->

7: Visual Studio Ionic 2

Visual Studio Intellisense IDE. IDE (Ionic, C, C #, AngularJs, TypeScript, Android) .
VSCode Extensions . VSCode .

Examples

VSCode

VSCode . VSCode . VSCode .

```
Introduction of Extensions in VSCode
```

VSCode Extension . **yourVSCode ionic2-vscode** Extension . VSCode Editor
Extension 5 . **(ctrl + shift + X)** .

```
Add Extension for Ionic2 in VsCode
```

ctrl + shift + X , **3** (ionic2-vscode), npm (ionic2-vscode), npm

VSCode

VsCode . **CLI cmd** . .

```
$ ionic start appName blank
```

ionic . ionic2 , . . .
, . VSCode . .

1. VScode .
2. .
3. .

ctrl + O Ctrl + K .

> Chrome

ionic **cmd CLI** .

```
$ ionic serve
```

ionic Extension (**Chrome**) launch.json .

```
{
  "version": "0.2.0",
  "configurations": [
    {
      "name": "Launch in Chrome",
      "type": "chrome",
      "request": "launch",
      "url": "http://localhost:8100",
      "sourceMaps": true,
      "webRoot": "${workspaceRoot}/src"
    }
  ]
}
```

> **Android**

Android **Run** ionic cmd CLI Android .

```
$ ionic cordova platform add android
```

Android

```
$ ionic cordova build android
```

```
$ ionic cordova run android
```

Android .

Android VSCode **Cordova Android Extension** . launch.json .

```
{
  "version": "0.2.0",
  "configurations": [
    {
      "name": "Run Android on device",
      "type": "cordova",
      "request": "launch",
      "platform": "android",
      "target": "device",
      "port": 9222,
      "sourceMaps": true,
      "cwd": "${workspaceRoot}",
      "ionicLiveReload": false
    },
    {
      "name": "Run iOS on device",
      "type": "cordova",
      "request": "launch",
      "platform": "ios",
      "target": "device",
      "port": 9220,
      "sourceMaps": true,
      "cwd": "${workspaceRoot}",
      "ionicLiveReload": false
    }
  ]
}
```

```

{
  "name": "Attach to running android on device",
  "type": "cordova",
  "request": "attach",
  "platform": "android",
  "target": "device",
  "port": 9222,
  "sourceMaps": true,
  "cwd": "${workspaceRoot}"
},
{
  "name": "Attach to running iOS on device",
  "type": "cordova",
  "request": "attach",
  "platform": "ios",
  "target": "device",
  "port": 9220,
  "sourceMaps": true,
  "cwd": "${workspaceRoot}"
},
{
  "name": "Run Android on emulator",
  "type": "cordova",
  "request": "launch",
  "platform": "android",
  "target": "emulator",
  "port": 9222,
  "sourceMaps": true,
  "cwd": "${workspaceRoot}",
  "ionicLiveReload": false
},
{
  "name": "Run iOS on simulator",
  "type": "cordova",
  "request": "launch",
  "platform": "ios",
  "target": "emulator",
  "port": 9220,
  "sourceMaps": true,
  "cwd": "${workspaceRoot}",
  "ionicLiveReload": false
},
{
  "name": "Attach to running android on emulator",
  "type": "cordova",
  "request": "attach",
  "platform": "android",
  "target": "emulator",
  "port": 9222,
  "sourceMaps": true,
  "cwd": "${workspaceRoot}"
},
{
  "name": "Attach to running iOS on simulator",
  "type": "cordova",
  "request": "attach",
  "platform": "ios",
  "target": "emulator",
  "port": 9220,
  "sourceMaps": true,
  "cwd": "${workspaceRoot}"
}

```

```

        },
        {
            "name": "Serve to the browser (ionic serve)",
            "type": "cordova",
            "request": "launch",
            "platform": "serve",
            "cwd": "${workspaceRoot}",
            "devServerAddress": "localhost",
            "sourceMaps": true,
            "ionicLiveReload": true
        },
        {
            "name": "Simulate Android in browser",
            "type": "cordova",
            "request": "launch",
            "platform": "android",
            "target": "chrome",
            "simulatePort": 8000,
            "livereload": true,
            "sourceMaps": true,
            "cwd": "${workspaceRoot}"
        },
        {
            "name": "Simulate iOS in browser",
            "type": "cordova",
            "request": "launch",
            "platform": "ios",
            "target": "chrome",
            "simulatePort": 8000,
            "livereload": true,
            "sourceMaps": true,
            "cwd": "${workspaceRoot}"
        }
    ]
}

```

1..

2..

Short keys

- - F5
- StepOver - F10
- - F11
- - Shift + F5
- -ctrl + shift_F5

Visual Studio Ionic 2 : <https://riptutorial.com/ko/ionic2/topic/10559/visual-studio--ionic-2--->

8:

/ . " " . QA .

: <https://github.com/driftyco/ionic-unit-testing-example>

Examples

/

.

-

Jasmine -

PhantomJS -

package.json dev . dev .

```
@ionic/app-scripts": "1.1.4",
"@ionic/cli-build-ionic-angular": "0.0.3",
"@ionic/cli-plugin-cordova": "0.0.9",
"@types/jasmine": "^2.5.41",
"@types/node": "^7.0.8",
"angular2-template-loader": "^0.6.2",
"html-loader": "^0.4.5",
"jasmine": "^2.5.3",
"karma": "^1.5.0",
"karma-chrome-launcher": "^2.0.0",
"karma-jasmine": "^1.1.0",
"karma-jasmine-html-reporter": "^0.2.2",
"karma-sourcemap-loader": "^0.3.7",
"karma-webpack": "^2.0.3",
"null-loader": "^0.1.1",
"ts-loader": "^2.0.3",
"typescript": "2.0.9"
```

"angular2-template-loader": "^0.6.2", - will load and compile the angular2 html files.

"ts-loader": "^2.0.3", - will compile the actual typescript files

"null-loader": "^0.1.1", - will not load the assets that will be missing, such as fonts and images. We are testing, not image lurking.

package.json .

```
"test": "karma start ./test-config/karma.conf.js"
```

```
tsconfig spec.ts .
```

```
"exclude": [
  "node_modules",
  "src/**/*spec.ts"
],
```

```
,    . test-config .(package.json) 3 .
```

```
webpack.test.js - webpack .
```

```
var webpack = require('webpack');
var path = require('path');

module.exports = {
  devtool: 'inline-source-map',

  resolve: {
    extensions: ['.ts', '.js']
  },

  module: {
    rules: [
      {
        test: /\.ts$/,
        loaders: [
          {
            loader: 'ts-loader'
          }, 'angular2-template-loader'
        ]
      },
      {
        test: /\.html$/,
        loader: 'html-loader'
      },
      {
        test: /\.(png|jpe?g|gif|svg|woff|woff2|ttf|eot|ico)$/,
        loader: 'null-loader'
      }
    ]
  },
  plugins: [
    new webpack.ContextReplacementPlugin(
      // The (\|\|/) piece accounts for path separators in *nix and Windows
      /angular(\|\|/)core(\|\|/)(esm(\|\|/)src|src)(\|\|/)linker/,
      root('./src'), // location of your src
      {} // a map of your routes
    )
  ]
};

function root(localPath) {
  return path.resolve(__dirname, localPath);
}
```

```
karma-test-shim.js - .
```

```

Error.stackTraceLimit = Infinity;

require('core-js/es6');
require('core-js/es7/reflect');

require('zone.js/dist/zone');
require('zone.js/dist/long-stack-trace-zone');
require('zone.js/dist/proxy');
require('zone.js/dist/sync-test');
require('zone.js/dist/jasmine-patch');
require('zone.js/dist/async-test');
require('zone.js/dist/fake-async-test');

var appContext = require.context('../src', true, /\.spec\.ts/);

appContext.keys().forEach(appContext);

var testing = require('@angular/core/testing');
var browser = require('@angular/platform-browser-dynamic/testing');

testing.TestBed.initTestEnvironment(browser.BrowserDynamicTestingModule,
browser.platformBrowserDynamicTesting());

```

karma.conf.js - . Chrome PhantomJS .

```

var webpackConfig = require('./webpack.test.js');

module.exports = function (config) {
  var _config = {
    basePath: '',
    frameworks: ['jasmine'],
    files: [
      {pattern: './karma-test-shim.js', watched: true}
    ],
    preprocessors: {
      './karma-test-shim.js': ['webpack', 'sourcemap']
    },
    webpack: webpackConfig,
    webpackMiddleware: {
      stats: 'errors-only'
    },
    webpackServer: {
      noInfo: true
    },
    browserConsoleLogOptions: {
      level: 'log',
      format: '%b %T: %m',
      terminal: true
    },
    reporters: ['kjhtml', 'dots'],
    port: 9876,
    colors: true,
  };

```

```

    logLevel: config.LOG_INFO,
    autoWatch: true,
    browsers: ['Chrome'],
    singleRun: false
};

config.set(_config);
};

```

. app.component spec . . . <https://github.com/driftyco/ionic-unit-testing-example/blob/master/src/pages/page1/page1>

. app.component . .

```

beforeEach(async(() => {
  TestBed.configureTestingModule({
    declarations: [MyApp],
    imports: [
      IonicModule.forRoot(MyApp)
    ],
    providers: [
      StatusBar,
      SplashScreen
    ]
  })
}));
```

. , app.component Platform , IonicModule . .

```

beforeEach(() => {
  fixture = TestBed.createComponent(MyApp);
  component = fixture.componentInstance;
});
```

```

it ('should be created', () => {
  expect(component instanceof MyApp).toBe(true);
});
```

```

it ('should have two pages', () => {
  expect(component.pages.length).toBe(2);
});
```

```

import { async, TestBed } from '@angular/core/testing';
import { IonicModule } from 'ionic-angular';

import { StatusBar } from '@ionic-native/status-bar';
import { SplashScreen } from '@ionic-native/splash-screen';
```

```
import { MyApp } from './app.component';

describe('MyApp Component', () => {
  let fixture;
  let component;

  beforeEach(async(() => {
    TestBed.configureTestingModule({
      declarations: [MyApp],
      imports: [
        IonicModule.forRoot(MyApp)
      ],
      providers: [
        StatusBar,
        SplashScreen
      ]
    })
  )));
}

beforeEach(() => {
  fixture = TestBed.createComponent(MyApp);
  component = fixture.componentInstance;
});

it ('should be created', () => {
  expect(component instanceof MyApp).toBe(true);
});

it ('should have two pages', () => {
  expect(component.pages.length).toBe(2);
});

});
```

npm run test

. TestBed

: <https://riptutorial.com/ko/ionic2/topic/9561/->

Examples

UI . ,

```
import { ModalController } from 'ionic-angular';
import { ModalPage } from './modal-page';

export class MyPage {
  constructor(public modalCtrl: ModalController) {}

  presentModal() {
    let modal = this.modalCtrl.create(ModalPage);
    modal.present();
  }
}
```

: .

Modal.create() . NavParams . " " NavParams .

```
: .
```

```
import { ModalController, NavParams } from 'ionic-angular';

export class HomePage {

  constructor(public modalCtrl: ModalController) {}

  presentProfileModal() {
    let profileModal = this.modalCtrl.create(Profile, { userId: 8675309 });
    profileModal.present();
  }
}
```

: .

```
import { NavParams } from 'ionic-angular';
export class Profile {

  constructor(params: NavParams) {
    console.log('UserId', params.get('userId'));
  }
}
```

: <https://riptutorial.com/ko/ionic2/topic/6415/>

10:

Examples

UI.

Message.html

```
<ion-header>
  <ion-toolbar>
    <ion-title>
      Modal
    </ion-title>
    <ion-buttons start>
      <button (click)="dismiss()">
        <span primary showWhen="ios">Cancel</span>
        <ion-icon name="md-close" showWhen="android,windows"></ion-icon>
      </button>
    </ion-buttons>
  </ion-toolbar>
</ion-header>
<ion-content padding>
  <h1>Modal Without Params is created successfully.</h1>
  <button full (click)="dismiss()"> Exit </button>
</ion-content>
```

Message.ts

```
import { Component } from '@angular/core';
import { ViewController } from 'ionic-angular';
@Component({
  templateUrl: 'build/pages/message/message.html',
})
export class MessagePage {
  navCtrl;
  constructor(navCtrl: ViewController) {
    this.navCtrl = navCtrl;
  }
  dismiss(){
    this.navCtrl.dismiss();
  }
}
```

Home.html

```
<ion-header>
  <ion-navbar>
    <ion-title>
      Modal Example
    </ion-title>
  </ion-navbar>
</ion-header>
```

```

</ion-title>
</ion-navbar>
</ion-header>
<ion-content padding>
  <button full (click)="openModal()">ModalWithoutParams-Message</button>
</ion-content>

```

```

import { Component } from '@angular/core';
import { ModalController } from 'ionic-angular';
import { MessagePage } from '../message/message';
@Component({
  templateUrl: 'build/pages/home/home.html'
})
export class HomePage {
  modalCtrl;
  data;
  constructor(modalCtrl: ModalController) {
    this.modalCtrl = modalCtrl;
    this.data = [{name: "aaa", email: "aaa.a@som.com", mobile: "1234567890", nickname: "zzz"}, 
      {name: "bbb", email: "bbb.a@som.com", mobile: "1234567890", nickname: "yyy"}, 
      {name: "ccc", email: "ccc.a@som.com", mobile: "1234567890", nickname: "xxx"}]
  }
  openModal() {
    let myModal = this.modalCtrl.create(MessagePage);
    myModal.present();
  }
}

```

ModalController MessagePage . ModalController **create** myModal MessagePage .

?

Register.html

```

<ion-header>
  <ion-toolbar>
    <ion-title>
      Login
    </ion-title>
    <ion-buttons start>
      <button (click)="dismiss()">
        <span primary showWhen="ios">Cancel</span>
        <ion-icon name="md-close" showWhen="android,windows"></ion-icon>
      </button>
    </ion-buttons>
  </ion-toolbar>
</ion-header>
<ion-content padding>
  <ion-list>
    <ion-item>
      <ion-label>Name</ion-label>
      <ion-input type="text" [(ngModel)]="name"></ion-input>
    </ion-item>
  </ion-list>
</ion-content>

```

```

</ion-item>
<ion-item>
  <ion-label>Email</ion-label>
  <ion-input type="text" [(ngModel)]="email"></ion-input>
</ion-item>
<ion-item>
  <ion-label>Mobile</ion-label>
  <ion-input type="number" [(ngModel)]="mobile"></ion-input>
</ion-item>
<ion-item>
  <ion-label>Nickname</ion-label>
  <ion-input type="text" [(ngModel)]="nickname"></ion-input>
</ion-item>
</ion-list>
<button full (click)="add()">Add</button>
</ion-content>

```

Register.ts

```

import { Component } from '@angular/core';
import { ViewController } from 'ionic-angular';
@Component({
  templateUrl: 'build/pages/register/register.html',
})
export class ResisterPage {
  navCtrl;
  name;
  email;
  mobile;
  nickname;
  constructor(viewCtrl: ViewController) {
    this.navCtrl = viewCtrl;
    this.name = "";
    this.email = "";
    this.mobile = "";
    this.nickname = "";
  }
  dismiss() {
    this.navCtrl.dismiss();
  }
  add() {
    let data = {"name": this.name, "email": this.email, "mobile": this.mobile, "nickname": this.nickname};
    this.navCtrl.dismiss(data);
  }
}

```

viewControllers dismiss . . .

?

Home.html

```

<ion-list>
  <ion-item *ngFor="let datum of data">
    <h1>{{datum.name}}</h1>
  </ion-item>
</ion-list>

```

```
<button full secondary (click)="openModalParams () ">ModalWithParams-Register</button>
```

```
import {ResisterPage} from '../register/register';

openModalParams () {
  let modalWithParams = this.modalCtrl.create(ResisterPage);
  modalWithParams.present();

  modalWithParams.onDidDismiss((result) =>{
    if(result) {
      this.data.unshift(result);
    }
  });
}
```

ViewController **onDidDismiss** . . . onDidDismiss . . . null.

:

NavController . . . **create** home.html . . .

Home.html

```
<ion-list>
  <ion-item *ngFor="let datum of data" (click)="openModalwithNavParams(datum) ">
    <h1>{{datum.name}}</h1>
  </ion-item>
</ion-list>
```

```
import {EditProfilePage} from '../edit-profile/edit-profile';
```

```
openModalwithNavParams(data) {
  let modalWithNavParams = this.modalCtrl.create(EditProfilePage, {Data: data});
  modalWithNavParams.present();
}
```

NavParams . . .

Edit-Profile.html

```
<ion-header>
  <ion-toolbar>
    <ion-title>
      Login
    </ion-title>
    <ion-buttons start>
      <button (click)="dismiss() ">
        <span primary showWhen="ios">Cancel</span>
        <ion-icon name="md-close" showWhen="android,windows"></ion-icon>
      </button>
```

```

</ion-buttons>
</ion-toolbar>
</ion-header>
<ion-content padding>
  <h2>Welcome {{name}}</h2>
  <ion-list>
    <ion-item>
      <ion-label>Email</ion-label>
      <ion-input type="text" value="{{email}}></ion-input>
    </ion-item>
    <ion-item>
      <ion-label>Mobile</ion-label>
      <ion-input type="number" value="{{mobile}}></ion-input>
    </ion-item>
    <ion-item>
      <ion-label>Nickname</ion-label>
      <ion-input type="text" value="{{nickname}}></ion-input>
    </ion-item>
  </ion-list>
  <button full (click)="dismiss()">Close</button>
</ion-content>

```

Edit-Profile.ts

```

import { Component } from '@angular/core';
import { ViewController, NavParams } from 'ionic-angular';
@Component({
  templateUrl: 'build/pages/edit-profile/edit-profile.html',
})
export class EditProfilePage {
  navCtrl;
  navParams;
  data;
  name;
  email;
  mobile;
  nickname;
  constructor(viewCtrl: ViewController, navParams: NavParams) {
    this.navCtrl = viewCtrl;
    this.navParams = navParams;
    this.data = this.navParams.get('Data');
    this.name = this.data.name;
    this.email = this.data.email;
    this.mobile = this.data.mobile;
    this.nickname = this.data.nickname;
  }
  dismiss() {
    this.navCtrl.dismiss();
  }
}

```

: <https://riptutorial.com/ko/ionic2/topic/6612/>

11: OnInit

```
ionic2 constructor: , ., () json ( ) . http.get json . ? http .
```

Examples

Http

```
import {Http} from '@angular/http';
@Injectable()
export class StudentService{
  constructor(public http: Http){}
  getAllStudents(): Observable<Students[]>{
    return this.http.get('assets/students.json')
      .map(res => res.json().data)
  }
}
```

```
. / .
```

```
import {StudentService} from './student.service';
import { SocialSharing } from '@ionic-native/social-sharing';
export class HomePage implements OnInit {

  constructor(public _studentService: StudentService, public socialSharing: SocialSharing) {
  }
```

```
. StudentService . socialSharing .
```

ngOnInit

```
OnInit: ionic2 . AngularJs2 . ngOnInit . . / . . . . OnInit ngOnInit . :  
ngOnInit /
```

```
export class HomePage implements OnInit {
  ...
  ...
  constructor(...){}

  ngOnInit() {
    this._studentService.getAllStudents().subscribe(
      (students: Students[]) => this.students = students,
    )
  }
}
```

OnInit : <https://riptutorial.com/ko/ionic2/topic/9907/--oninit>

12:

```
providers .  
?, Component providers MyService . . :
```

```
@Component({  
  templateUrl:"page1.html",  
  providers: [MyService]  
})
```

```
@Component({  
  templateUrl:"page2.html",  
  providers: [MyService]  
})
```

```
( ) App Component . .
```

```
@Component({  
  template: '<ion-nav [root]="rootPage"></ion-nav>',  
  providers: [MyService]  
})
```

```
ionicBootstrap(MyApp, [MyService]); MyService  ionicBootstrap(MyApp, [MyService]); Angular2
```

```
Angular 2 . .
```

```
? Angular 2 . .
```

```
?
```

```
?
```

```
?
```

```
Angular . .
```

```
... App Component . .
```

Examples

```
(: ). . . .
```

```
MyService . . saveMessage() getMessage()
```

```

import { Injectable } from '@angular/core';

@Injectable()
export class MyService {

    private message: string;

    constructor() { }

    public saveMessage(theMessage: string): void {
        this.message = theMessage;
    }

    public getMessage(): string {
        return this.message;
    }
}

```

saveMessage(theMessageWeWantToSave); saveMessage(theMessageWeWantToSave); MyService (service)

```

import { Component } from "@angular/core";
import { MyService } from 'service.ts';

@Component({
    templateUrl:"page1.html"
})
export class Page1 {

    message: string;

    // ...

```

```

    public saveSecretMessage(): void {
        this.service.saveMessage(this.message);
    }
}

```

, getMessage() :

```

import { Component } from "@angular/core";
import { MyService } from 'service.ts';

@Component({
    templateUrl:"page2.html"
})
export class Page2 {

    enteredMessage: string;

    constructor(private service: MyService) {
        this.enteredMessage = this.service.getMessage();
    }

    // ...
}

```

MyService

Remarks .

: <https://riptutorial.com/ko/ionic2/topic/4407/>

13:

.apk . ID

: <https://view.ionic.io/>

Examples

app.ionic.io

1..

2.''

```
I named my app as 'MyIonicApp'
```

3. ID .

```
MyIonicApp ID is 4c5051c1
```

Node.js

1..

```
$ ionic login
```

2..

3. ionic ID . .

```
$ ionic link [your-app-id]
```

MyIonicApp .

```
$ ionic link 4c5051c1
```

MyIonicApp app id .

4..

```
$ ionic upload
```

'' ID ionic . .

: [https://riptutorial.com/ko/ionic2/topic/10542/----](https://riptutorial.com/ko/ionic2/topic/10542/)

14:

Examples

```
package.json .
```

```
{  
  ...  
  "dependencies": {  
    ...  
    "ionic-native": "^1.3.10",  
    ...  
  },  
  ...  
}
```

```
:
```

```
// custom-component.ts  
  
import {Geolocation} from 'ionic-native';  
import template from './custom-component.html';  
  
@Component({  
  selector: 'custom-component',  
  template: template  
})  
export class CustomComponent {  
  
  constructor() {  
  
    // get the geolocation through a promise  
    Geolocation.getCurrentPosition().then((position:Geoposition)=> {  
      console.log(  
        position.coords.latitude,  
        position.coords.longitude);  
    });  
  }  
}
```

Geolocation watchPosition . getCurrentPosition watchPosition Observable .

```
import {Geolocation} from 'ionic-native';  
import template from './custom-component.html';  
  
@Component({  
  selector: 'custom-component',  
  template: template  
})  
export class CustomComponent {  
  constructor() {  
  
    // get the geolocation through an observable  
    Geolocation.watchPosition(<GeolocationOptions>{
```

```
maximumAge: 5000, // a maximum age of cache is 5 seconds
timeout: 10000, // time out after 10 seconds
enableHighAccuracy: true // high accuracy
}).subscribe((position) => {
  console.log('Time:' + position.timestamp);
  console.log(
    'Position:' + position.coords.latitude + ',' +
    position.coords.longitude);
  console.log('Direction:' + position.coords.heading);
  console.log('Speed:' + position.coords.speed);

});
}
```

: <https://riptutorial.com/ko/ionic2/topic/5840/>-

15: - Android

Google Play .

Examples

Android ionic start --appname|-a --id|-i . Google Play .

cli .

```
$ ionic start --v2 -a "App Example" -i "com.example.app" -t "tabs"
```

1.

config.xml . config.xml .

widget id , name , description author / .

:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<widget id="com.example.app" version="1.0.0" xmlns="http://www.w3.org/ns/widgets"
xmlns:cdv="http://cordova.apache.org/ns/1.0">
  <name>Example App</name>
  <description>Example app for stackoverflow users</description>
  <author email="admin@example.com" href="http://example.com/">Your name or team</author>
  ...
</widget>
```

2.

png, psd ai icon splash . 192x192 . . . 2208x2208 .

ionic resources --icon . - . ionic resources --splash

3.

--release & --prod

ionic build android --release --prod

@ ionic / app-scripts .

4.

APK (android-release-unsigned.apk) android-release-unsigned.apk . . .

APK android-release-unsigned.apk dir /platforms/android/build/outputs/apk/ keytools apk

```
keytools . .  
$ keytool -genkey -v -keystore my-release-key.keystore -alias androidKey -keyalg RSA -keysize 2048 -validity 10000
```

my-release-key.keystore .

JDK keytool . .

. my-release-key.keystore .

: . !

5. APK

APK JDK jarsigner .

```
$ jarsigner -verbose -sigalg SHA1withRSA -digestalg SHA1 -keystore my-release-key.keystore  
HelloWorld-release-unsigned.apk alias_name
```

apk . zip APK . zipalign / path / to / Android / sdk / build-tools / VERSION / zipalign .

```
$ zipalign -v 4 HelloWorld-release-unsigned.apk HelloWorld.apk
```

HelloWorld.apk Google Play .

Google Play . Google Play APK Play APK . Google Play . 1 25 .

"Google Play Android" .

- Android : <https://riptutorial.com/ko/ionic2/topic/9659/----android>

16:

Ionic 2 Tab

Examples

() () .

TabService

```
import { Injectable } from '@angular/core';
import { Platform } from 'ionic-angular/index';
import { Observable } from 'rxjs/Observable';

@Injectable()
export class TabService {

  private tabChangeObserver: any;
  public tabChange: any;

  constructor(private platform: Platform) {
    this.tabChangeObserver = null;
    this.tabChange = Observable.create(observer => {
      this.tabChangeObserver = observer,
    });
  }

  public changeTabInContainerPage(index: number) {
    this.tabChangeObserver.next(index);
  }
}
```

TabService Observable changeTabInContainerPage() .

() click .

Page1.html

```
<ion-content class="has-header">
  <h1>Page 1</h1>
  <button secondary (click)="changeTab()">Select next tab</button>
</ion-content>
```

Page1.ts

```
import { Component } from '@angular/core';
import { Observable } from 'rxjs/Observable';
import { TabService } from 'tabService.ts';

@Component({
  templateUrl:"page1.html"
```

```

})
export class Page1 {

    constructor(private tabService: TabService) { }

    public changeTab() {
        this.tabService.changeTabInContainerPage(1);
    }
}

```

TabsPage this.tabRef.select(index); this.tabRef.select(index); this.tabRef.select(index);

```

import { Component, ViewChild } from '@angular/core';
import { Page1 } from './page1.ts';
import { Page2 } from './page2.ts';
import { TabService } from 'tabService.ts';

@Component({
    templateUrl: 'tabs.html'
})
export class TabsPage {
    @ViewChild('myTabs') tabRef: Tabs;

    tab1Root: any = Page1;
    tab2Root: any = Page2;

    constructor(private tabService: TabService){
        this.tabService.tabChange.subscribe((index) => {
            this.tabRef.select(index);
        });
    }
}

```

ion-tabs #myTabs Tab #myTabs ,@ViewChild('myTabs') tabRef: Tabs; @ViewChild('myTabs') tabRef: Tabs;

```

<ion-tabs #myTabs>
    <ion-tab [root]="tab1Root" tabTitle="Tab 1"></ion-tab>
    <ion-tab [root]="tab2Root" tabTitle="Tab 2"></ion-tab>
</ion-tabs>

```

selectedIndex

DOM ion-tabs selectedIndex

HTML :

```

<ion-tabs [selectedIndex]="tabIndex" class="tabs-icon-text" primary >
    <ion-tab tabIcon="list-box" [root]="tabOne"></ion-tab>
    <ion-tab tabIcon="contacts" [root]="tabTwo"></ion-tab>
    <ion-tab tabIcon="chatboxes" [tabBadge]="messagesReceived" [root]="tabFive"></ion-tab>
</ion-tabs>

```

TS :

```
import { Events } from "ionic-angular";

export class tabs {
  public tabIndex: number;
  constructor(e: Events) {
    tabs.mySelectedIndex = navParams.data.tabIndex || 0;
    e.subscribe("tab:change", (newIndex) => this.tabIndex = newIndex);
  }
}
```

```
e.publish("tab:change", 2);
```

: <https://riptutorial.com/ko/ionic2/topic/5569/>-

17:

SenderId Google gcm ID.

```
ionic plugin add phonegap-plugin-push --variable SENDER_ID="XXXXXXX"
```

. <https://github.com/phonegap/phonegap-plugin-push/blob/master/docs/TYPESCRIPT.md>

Examples

ID

```
let push = Push.init({
  android: {
    senderID: "-----",
  },
  ios: {
    alert: "true",
    badge: true,
    sound: "false",
  },
  windows: {}
});
```

ID .

```
import { Push, RegistrationEventResponse} from "ionic-native";

//the push element is created in the initialization example
push.on("registration", async (response: RegistrationEventResponse) => {
  //The registration returns an id of the registration on your device
  RegisterWithWebApi(response.registrationId);

});
```

```
import { Push, NotificationEventResponse} from "ionic-native";

//the push element is created in the initialization example
push.on("notification", (response: NotificationEventResponse) => {
  let chatMessage: ChatMessage = <ChatMessage>{
    title: response.title,
    message: response.message,
    receiver: response.additionalData.replyTo,
    image: response.image
  };
  DoStuff(chatMessage));
});
```

: [https://riptutorial.com/ko/ionic2/topic/5874/----](https://riptutorial.com/ko/ionic2/topic/5874/)

S. No		Contributors
1	ionic2	Akilan Arasu, Cameron637, carstenbaumhoegger, Community, FreeBird72, Guillaume Le Mièvre, Ian Pinto, Ketan Akbari, misha130, Raymond Ativie, sebaferreras, tymspy, Will.Harris
2	'show-delete'	Amr ElAdawy, Roman Lee
3	Angularfire2 / Firebase	Cameron637, Gianfranco P.
4	Angularfire2 with Ionic2	Fernando Del Olmo
5	InAppBrowser	niks
6	Ionic2 CSS	Ketan Akbari
7	Visual Studio Ionic 2	misha130, PRIYA PARASHAR
8		misha130
9		Raymond Ativie
10	OnInit	niks
11		sebaferreras
12		Saravanan Sachi
13		Matyas, misha130
14	- Android	Luis Estevez, misha130
15		misha130, sebaferreras
16		misha130