**Advantages of Hybrid Apps**: Access to data, work offline due to native infrastructure, More Resources (online resources), easy scaling

**Most Popular Mobile Apps**: Facebook, Youtube, Pandora, Instagram, iTunes, Spotify, Twitter, Netflix, etc

**Two examples hybrid app application area**: faster initial speed to market (prototype development)  
 **CSS**

|  |  |  |
| --- | --- | --- |
|  |  |  |
| color | #RRGGBB (Red, Green, Blue hex values) |  |
| text-align | left | right | center | justify |  |
| text-decoration | none | underline | overline | line-through | blink | inherit |  |
| text-transformation | none | capitalize | uppercase | lowercase |  |
| font-size | px or em value |  |
| font-style | normal | italic | oblique |  |
| font-weight | normal | bold |  |
| background-color | #RRGGBB (Red, Green, Blue hex values) |  |
| background-image | url("[image url]") |  |
| background-repeat | repeat | repeat-x | repeat-y | no-repeat |  |
| background-position | left | center | right | top | center | bottom |  |
| list-style-type | disc | square | circle |  |
| list-style-type | decimal | lower-roman | upper-roman | lower-alpha | upper-alpha |  |

**App.js**

angular.module('starter', ['ionic', 'firebase', 'starter.controllers', 'starter.services'])  
.run(function($ionicPlatform, $rootScope, $location, $ionicLoading, $firebaseArray) {  
 $ionicPlatform.ready(function() { if (window.cordova && window.cordova.plugins && window.cordova.plugins.Keyboard) {cordova.plugins.Keyboard.hideKeyboardAccessoryBar(true); cordova.plugins.Keyboard.disableScroll(true); }

firebase.initializeApp(firebaseConfig); var auth = firebase.auth();  
 auth.onAuthStateChanged(function(user) { if (user) { // User signed in! console.log("Logged in as:", user.uid)  
var orderListRef = firebase.database().ref('orders/' + user.uid); $rootScope.orders = $firebaseArray(orderListRef)  
$rootScope.displayName = user.displayName; } else { console.log("Logged out"); $ionicLoading.hide(); $location.path('/login'); } });

$rootScope.logout = function () { $ionicLoading.show({ template: 'Logging Out...' }); auth.signOut().then(function() { // Sign-out successful. console.log("sign out successfully"); }, function(error) { console.log("error signout"); }); }

$rootScope.$on("$stateChangeError", function (event, toState, toParams, fromState, fromParams, error) if (error === "AUTH\_REQUIRED") { $location.path("/login"); } }); });})

**.config(function($stateProvider, $urlRouterProvider) $stateProvider**

.state('login', { url: '/login', templateUrl: 'templates/login.html', controller: 'LoginCtrl' })

.state('tab.orders', { url: '/orders', views: { 'tab-orders': { templateUrl: 'templates/tab-orders.html', controller: 'OrdersCtrl' } } })

.state('tab.order-detail', { url: '/orders/:orderId', views: { 'tab-orders': { templateUrl: 'templates/order-detail.html', controller: OrderDetailCtrl' } } })  
  
$urlRouterProvider.otherwise('/login'); });  
  
**Controller.JS**  
angular.module('starter.controllers', []) .controller('LoginCtrl', function ($scope, $ionicModal, $state, $ionicLoading, $rootScope) {   
var auth = firebase.auth(); $ionicModal.fromTemplateUrl('templates/signup.html', { scope: $scope }).then(function (modal) { $scope.modal = modal; });

**$scope.createUser = function (user)** { console.log("Create User Function called"); if (user && user.email && user.password && user.displayName) { $ionicLoading.show({ template: 'Signing Up...' });  
  
 auth.createUserWithEmailAndPassword(user.email, user.password).then(function (userData) { alert("User created successfully!"); var cur = auth.currentUser; /\*cur.sendEmailVerification().then(function() { // Email sent. alert("A verifying email has been sent"); }, function(error) { // An error happened. });\*/

cur.updateProfile({ displayName: user.displayName }).then(function() { console.log("update dispaly name successfully"); }, function(error) { // An error happened. });

$ionicLoading.hide(); $scope.modal.hide(); $state.go('tab.orders'); }).catch(function (error) { alert("Error: " + error); $ionicLoading.hide(); }); } else alert("Please fill all details"); }

**$scope.signIn = function (user**) { if (user && user.email && user.pwdForLogin) { $ionicLoading.show({ template: 'Signing In...' });

auth.signInWithEmailAndPassword( user.email, user.pwdForLogin ).then(function (authData) { $ionicLoading.hide(); $state.go('tab.orders'); }).catch(function (error) { alert("Authentication failed:" + error.message); $ionicLoading.hide(); }); } else alert("Please enter email and password both"); }

**$scope.reSet = function (user)** {if(user.email){ auth.sendPasswordResetEmail(user.email) .then(function() { console.log("reset email sent"); alert("reset email sent"); }).catch(function(error) { alert("reset email failed:" + error.message); }); } else alert("Please enter email"); } })

**$scope.createOrder = function(product**){ if (product && product.name && product.quantity && product.price && product.category) { $ionicLoading.show({ template: 'Create Order...' }); var d1 = new Date(); product.createDate = d1.toLocaleDateString("en-US"); $rootScope.orders.$add(product); $ionicLoading.hide(); $scope.modal.hide(); $state.go('tab.orders'); } else alert("Please fill all details"); }

**Local Storage Example:**   
var users = []; Var storeNames = JSON.parse(localStorage.getItem(“users”)); console.log(storenames.length = “users found”); console.log(storedNames[0].username);

**KeyUp**  
<form> <input id="target" type="text" value="Hello there"></form>

<div id="other"> Trigger the handler </div>

$( "#target" ).keyup(**function**() { alert( "Handler for .keyup() called." );});

**HTML:**

<ul> <li class="left"><button>BTN1</button></li> <li><button>BTN2</button></li> <li class="right"><button>BTN3</button></li></ul>

**CSS :**ul { display: table; width: 100%;} li { display: table-cell; } li.left {text-align: left;} li.right {text-align: right;}