

# RunForIT

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## Technical Manual

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## Code

### App.js

```
// Ionic Starter App

// angular.module is a global place for creating, registering and retrieving Angular modules
// 'starter' is the name of this angular module example (also set in a <body> attribute in
index.html)

// the 2nd parameter is an array of 'requires'

// 'starter.controllers' is found in controllers.js

angular.module('starter', ['ionic', 'starter.controllers', 'starter.directives'])

.run(function($ionicPlatform) {

    $ionicPlatform.ready(function() {

        // Hide the accessory bar by default (remove this to show the accessory bar above the
keyboard

        // for form inputs)

        if (cordova.platformId === "ios" && window.cordova &&
window.cordova.plugins.Keyboard) {

            cordova.plugins.Keyboard.hideKeyboardAccessoryBar(true);

            cordova.plugins.Keyboard.disableScroll(true);

        }

        if (window.StatusBar) {

            // org.apache.cordova.statusbar required

            StatusBar.styleDefault();
```

```
    }  
  });  
})  
  
.config(function ($stateProvider, $urlRouterProvider) {  
  
  $stateProvider  
    .state('app', {  
      url: '/app',  
      abstract: true,  
      templateUrl: 'templates/menu.html',  
      controller: 'AppCtrl'  
    })  
  
    .state('app.map', {  
      url: '/map',  
      views: {  
        'menuContent': {  
          templateUrl: 'templates/run.html'  
        }  
      }  
    })  
  
    .state('app.settings', {
```

```
url: '/settings',  
views: {  
  'menuContent': {  
    templateUrl: 'templates/browse.html',  
    controller: 'SettingsCtrl'  
  }  
}  
})
```

```
.state('app.browse', {  
  url: '/browse',  
  views: {  
    'menuContent': {  
      templateUrl: 'templates/browse.html',  
      controller: 'SettingsCtrl'  
    }  
  }  
})
```

```
.state('app.playlists', {  
  url: '/playlists',  
  views: {  
    'menuContent': {  
      templateUrl: 'templates/playlists.html',  
      controller: 'PlaylistsCtrl'  
    }  
  }  
})
```

```
    }  
  }  
})
```

```
.state('app.single', {  
  url: '/playlists/:playlistId',  
  views: {  
    'menuContent': {  
      templateUrl: 'templates/playlist.html',  
      controller: 'PlaylistCtrl'  
    }  
  }  
})
```

```
.state('app.run', {  
  url: '/run',  
  views: {  
    'menuContent': {  
      templateUrl: 'templates/browse.html',  
      controller: 'SettingsCtrl'  
    }  
  }  
})
```

```
.state('app.event', {  
  url: '/templates/createEvent.html',
```

```
views: {  
  'menuContent': {  
    templateUrl: 'templates/createEvent.html',  
    controller: 'createEventCtrl'  
  }  
}  
})  
  
.state('app.welcome', {  
  url: '/welcome',  
  views: {  
    'menuContent': {  
      templateUrl: 'templates/welcome.html'  
    }  
  }  
})  
  
.state('app.plans', {  
  url: '/plans',  
  views: {  
    'menuContent': {  
      templateUrl: 'templates/plans.html'  
    }  
  }  
})  
  
.state('app.myRuns', {
```

```
url: '/myRuns',
views: {
  'menuContent': {
    templateUrl: 'templates/myRuns.html',
    controller: 'myRunsCtrl'
  }
}
}))

.state('app.createEvent', {
  url: '/templates/createEvent.html',
  views: {
    'menuContent': {
      templateUrl: 'templates/createEvent.html',
      controller: 'abcd'
    }
  }
}))

.state('app.achiev', {
  url: '/achiev',
  views: {
    'menuContent': {
      templateUrl: 'templates/achiev.html',
      controller: 'achievCtrl'
    }
  }
})
```



```
    }  
  })  
  
  // if none of the above states are matched, use this as the fallback  
  $urlRouterProvider.otherwise('app/achiev');  
});
```

### **Controllers.js**

```
var config = {  
  apiKey: "AlzaSyBLIzp11Cl5W7ya770TujFQw1su4ivsJvE",  
  authDomain: "runforit-149417.firebaseio.com",  
  databaseURL: "https://runforit-149417.firebaseio.com",  
  storageBucket: "runforit-149417.appspot.com",  
  messagingSenderId: "354020409053"  
};  
  
firebase.initializeApp(config);  
  
var ref = firebase.database().ref();  
var fbUser = "";  
var storage = firebase.storage();  
var tt = 0, set = true;  
  
var planA = {  
  runTime: 10,  
  runMsg: "Run",
```

```
    restTime: 15,  
    restMsg: "Rest",  
    minSpeed: 5,  
    maxSpeed: 10,  
};
```

```
var planB = {  
    runTime: 10,  
    runMsg: "Run",  
    restTime: 15,  
    restMsg: "Rest",  
    minSpeed: 5,  
    maxSpeed: 10,  
};
```

```
var planC = {  
    runTime: 10,  
    runMsg: "Run",  
    restTime: 15,  
    restMsg: "Rest",  
    minSpeed: 5,  
    maxSpeed: 10,  
};
```

```
var myApp = angular.module('starter.controllers', ['firebase', 'ionic', 'starter.directives'])
```

```
.controller('AppCtrl', function($scope, $ionicModal, $timeout) {

  // Form data for the login modal

  $scope.loginData = {};

  // Create the login modal that we will use later

  $ionicModal.fromTemplateUrl('templates/login.html', {

    scope: $scope

  }).then(function(modal) {

    $scope.modal = modal;

  });

  // Triggered in the login modal to close it

  $scope.closeLogin = function() {

    $scope.modal.hide();

  };

  // Open the login modal

  $scope.login = function() {

    $scope.modal.show();

  };

  // Perform the login action when the user submits the login form
```

```
$scope.doLogin = function() {  
  
    console.log('Doing login', $scope.loginData);  
  
    var ref = firebase.database().ref();  
  
    const promise = firebase.auth().signInWithEmailAndPassword($scope.loginData.email,  
$scope.loginData.password);  
  
    promise.catch(e => console.log(e.message));  
  
  
  
    // Simulate a login delay. Remove this and replace with your login  
    // code if using a login system  
  
    $timeout(function() {  
  
        $scope.closeLogin();  
  
    }, 1000);  
  
};  
  
  
$scope.doSignup = function () {  
  
    console.log('Doing signup', $scope.loginData);  
  
  
  
    var ref = firebase.database().ref();  
  
    const promise =  
firebase.auth().createUserWithEmailAndPassword($scope.loginData.email,  
$scope.loginData.password);  
  
    promise.catch(e => console.log(e.message));  
  
  
  
    userEmail = document.getElementById("currentUser");
```

```
userEmail.innerHTML = firebaseUser.email;

console.log($scope.fbUser, 'w');

// Simulate a login delay. Remove this and replace with your login
// code if using a login system

$timeout(function () {
    $scope.closeLogin();
}, 1000);

};

$scope.doLogout = function () {
    console.log('Doing logout', $scope.loginData);
    firebase.auth().signOut();

    $timeout(function () {
        $scope.closeLogin();
    }, 1000);
};

firebase.auth().onAuthStateChanged(firebaseUser => {
    if (firebaseUser) {
        console.log(firebaseUser);
    } else {
        console.log('not logged in');
```

```
        document.getElementById("btnLogout").style.display = "none";
    }
})

})

.controller('SettingsCtrl', function ($scope) {
    var currentUser = 0;

    firebase.auth().onAuthStateChanged(firebaseUser => {

        console.log("pass", window.location.origin);
        var textVal = document.getElementById("currentUser").value;
        if (textVal = 'undefined') {
            currentUser = firebaseUser.email;
            userEmail = document.getElementById("currentUser");
            userEmail.innerHTML = currentUser;// window.location.origin;
            console.log($scope.fbUser, 'w');
        }
        else {
        }
    }
})
```

```
)
```

```
$scope.click = function () {  
    $scope.startTimer();  
}
```

```
$scope.startTimer = function () {  
    var counter = 5;  
    setInterval(function () {  
        counter--;  
        if (counter >= 0) {  
            span = document.getElementById("count");  
            span.innerHTML = counter;  
            if (counter != 0) {  
                var audio = new Audio();  
                var url = "https://translate.google.com/translate_tts?ie=utf-8&tl=en&q=%27" +  
"two" + "%27&client=tw-ob";  
                if (counter == 1) {  
                    var url = "https://translate.google.com/translate_tts?ie=utf-8&tl=en&q=%27" +  
"onee" + "%27&client=tw-ob";  
                }  
                else if (counter == 2) {  
                    var url = "https://translate.google.com/translate_tts?ie=utf-8&tl=en&q=%27" +  
"too" + "%27&client=tw-ob";  
                }  
            }  
        }  
    }, 1000);  
}
```

```
    }

    else if (counter == 3) {

        var url = "https://translate.google.com/translate_tts?ie=utf-8&tl=en&q=%27" +
"three" + "%27&client=tw-ob";

    }

    else if (counter == 4) {

        var url = "https://translate.google.com/translate_tts?ie=utf-8&tl=en&q=%27" +
"four" + "%27&client=tw-ob";

    }

    var wind = window.open(url);

    wind.close();

    audio.src = url;

    audio.play();

}

}

if (counter === 0) {

    span = document.getElementById("notify");

    span.innerHTML = "Run";

    clearInterval(counter);

    $scope.startStopWatch();

    var audio = new Audio();

    var url = "https://translate.google.com/translate_tts?ie=utf-8&tl=en&q=%27" + "run"
+ "%27&client=tw-ob";

    var wind = window.open(url);
```



```
wind.close();

audio.src = url;

audio.play();

}

}, 1000);

}

$scope.stop = function () {

    runId = Math.floor(100000000 + Math.random() * 900000000)

    function writeUserData() {

        var currentU = document.getElementById("userId").innerHTML;

        var userName = document.getElementById("currentUser").innerHTML;

        var currentUser = "";

        var today = new Date();

        var dd = today.getDate();

        var mm = today.getMonth() + 1;

        var yyyy = today.getFullYear();

        if (dd < 10) {

            dd = '0' + dd

        }

        if (mm < 10) {

            mm = '0' + mm
```

```

}

today = mm + '/' + dd + '/' + yyyy;

firebase.auth().onAuthStateChanged(firebaseUser => {

  if (firebaseUser) {

    currentUser = firebaseUser.uid;

    console.log(firebaseUser.uid);

    firebase.database().ref('results/' + currentUser + '/' + runId).set({

      user: userName,

      runId: runId,

      runTime: tt,

      runType: "Begginner",

      averageSpeed: speed,

      distance: distance,

      date: today

    });

  } else {

    console.log('not logged in');

  }

})

}

window.clearInterval(timeSw);

writeUserData();

```

```
}
```

```
$scope.test = function () {  
    console.log("test func");  
}
```

```
$scope.pause = function () {  
    if (set){  
        window.clearInterval(timeSw);  
        set = false;  
    }  
    else {  
        timeSw.setInterval(1000);  
        set = true;  
    }  
}
```

```
$scope.startStopWatch = function () {  
    function getLocation() {  
        if (navigator.geolocation) {  
            navigator.geolocation.getCurrentPosition(showPosition);  
        } else {  
            x.innerHTML = "Geolocation is not supported by this browser.";  
        }  
    }  
}
```

```
}
```

```
function showPosition(position) {
```

```
    x.innerHTML = "Latitude: " + position.coords.latitude +
```

```
    "<br>Longitude: " + position.coords.longitude;
```

```
}
```

```
console.log(planA.runTime);
```

```
var totalTime = 0, stop = 0; timeSw = 0, seconds = 0, minutes = 0, hours = 0,  
ultimateTime = 0, latP = 0, longP = 0, latN = 0, longN = 0, distance = 0;
```

```
if (stop == 1) {
```

```
    clearInterval(timeSw);
```

```
}
```

```
timeSw = setInterval(function () {
```

```
    totalTime++;
```

```
    ultimateTime++;
```

```
    seconds++;
```

```
    tt++;
```

```
    if (seconds >= 60) {
```

```
        seconds = 0;
```

```
        minutes++;
```

```
        if (minutes >= 60) {
```

```
            minutes = 0;
```

```
            hours++;
```

```
    }  
  }  
  
  sec = document.getElementById("seconds");  
  sec.innerHTML = seconds;  
  
  min = document.getElementById("minutes");  
  min.innerHTML = minutes;  
  
  hour = document.getElementById("hours");  
  hour.innerHTML = hours;  
  
  if (totalTime >= planA.runTime) {  
    span = document.getElementById("notify");  
    span.innerHTML = planA.restMsg;  
  }  
  
  if (totalTime <= planA.runTime) {  
    span = document.getElementById("notify");  
    span.innerHTML = planA.runMsg;  
  }  
  
  if (totalTime >= planA.restTime) {  
    totalTime = 0;  
  
    var audio = new Audio();  
  
    var url = "https://translate.google.com/translate_tts?ie=utf-8&tl=en&q=%27" + "run"  
+ "%27&client=tw-ob";  
  
    var wind = window.open(url);  
  
    wind.close();  
  }  
}
```

```
    audio.src = url;

    audio.play();

};

if (totalTime == planA.runTime) {

    var audio = new Audio();

    var url = "https://translate.google.com/translate_tts?ie=utf-8&tl=en&q=%27" + "rest"
+ "%27&client=tw-ob";

    var wind = window.open(url);

    wind.close();

    audio.src = url;

    audio.play();

}

else {

    navigator.geolocation.getCurrentPosition(function (location) {

        loc = document.getElementById("loc");

        loc.innerHTML = latP + ' ' + longP;

        loc2 = document.getElementById("loc2");

        loc2.innerHTML = latN + ' ' + longN;

        if (latP == 0) {

            latN = location.coords.latitude;

            longN = location.coords.longitude;
```

```

}

latP = latN;

longP = longN;

latN = location.coords.latitude;

longN = location.coords.longitude;

var _eQuatorialEarthRadius = 6378.1370;

var _d2r = (Math.PI / 180.0);

function HaversineInM(lat1, long1, lat2, long2) {
    return (1000.0 * HaversineInKM(lat1, long1, lat2, long2));
}

function HaversineInKM(lat1, long1, lat2, long2) {
    var dlong = (long2 - long1) * _d2r;

    var dlat = (lat2 - lat1) * _d2r;

    var a = Math.pow(Math.sin(dlat / 2.0), 2.0) + Math.cos(lat1 * _d2r) *
Math.cos(lat2 * _d2r) * Math.pow(Math.sin(dlong / 2.0), 2.0);

    var c = 2.0 * Math.atan2(Math.sqrt(a), Math.sqrt(1.0 - a));

    var d = _eQuatorialEarthRadius * c;

    return d;
}

var temp = distance;

distance = HaversineInM(latN, longN, latP, longP) + temp;

```

```

var dist = document.getElementById("distance");

dist.innerHTML = Math.round(distance * 100) / 100;

var speed = document.getElementById("speed");

speed.innerHTML = Math.round((distance / ultimateTime) * 100) / 100;

console.log(distance);

console.log(latN, longN);

var minSpeed = planA.minSpeed;

if (distance >= 100) {

    if ((distance / ultimateTime) < planA.minSpeed) {

        var audio = new Audio();

        var url = "https://translate.google.com/translate_tts?ie=utf-8&tl=en&q=" +
"Speed+up+,+no+time+for+rest" + "&client=tw-ob";

        var wind = window.open(url);

        wind.close();

        audio.src = url;

        audio.play();

        console.log('s');

    }

    else if ((distance / ultimateTime) > planA.maxSpeed) {

        var audio = new Audio();

        var url = "https://translate.google.com/translate_tts?ie=utf-8&tl=en&q=" +
"Slow+down+,+you+are+going+too+fast" + "&client=tw-ob";

        var wind = window.open(url);

```



```
wind.close();  
  
audio.src = url;  
  
audio.play();  
  
console.log('f');  
  
}  
  
}  
  
});  
  
}
```

```
}, 1000);  
  
}  
  
})
```

```
.controller('achievCtrl', function ($scope, $stateParams) {
```

```
    factArr = ["Even if you're a super-slow jogger, you'll burn at least 10 calories per minute of  
running."],
```

```
        "Athletes dressed in red are more likely to win events than athletes wearing any  
other colour.",
```

```
        "The fastest mile (approx. 1.6km) ever run was by Moroccan, Hicham El Guerrouj, in  
3:43:13 in 1999.",
```

"An average man has enough energy in his fat stores to run non-stop for 3 days at 24km per hour.",

"12 of the world's top-20 distance runners are members of the Kalenjin tribe of northwest Kenya."

```
];  
  
navigator.geolocation.getCurrentPosition(function (location) {  
  
    var lat = location.coords.latitude;  
  
    var long = location.coords.longitude;  
  
    //console.log(lat, long);  
  
    document.getElementById("test").innerHTML = factArr[Math.floor(Math.random() *  
factArr.length)];  
  
    var script = document.createElement('script');  
  
    script.src = 'http://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js';  
  
    script.type = 'text/javascript';  
  
    document.getElementsByTagName('head')[0].appendChild(script);  
  
  
    $.getJSON("http://api.openweathermap.org/data/2.5/weather?lat=" + lat + "&lon=" +  
long + "&units=metric&appid=c55971e864d09658c599614f2f51255f", function (data) {  
  
        //data is the JSON string  
  
        //console.log(data.main.temp);  
  
        console.log(data.weather["0"].description);  
  
        $('#weather').append("<div class='classname'>" + data.main.temp + "° Celcius( "  
+ data.weather["0"].description + ") </div>");  
  
    })  
  
});
```

```
})
```

```
.controller('myRunsCtrl', function ($scope, $ionicPopup) {  
  
  var dataArr = [];  
  
  var script = document.createElement('script');  
  
  script.src = 'http://code.jquery.com/jquery-1.11.0.min.js';  
  
  script.type = 'text/javascript';  
  
  document.getElementsByTagName('head')[0].appendChild(script);  
  
  var currentUser = 0;  
  
  firebase.auth().onAuthStateChanged(firebaseUser => {  
  
    if (firebaseUser) {  
  
      currentUser = firebaseUser.uid;  
  
      console.log(firebaseUser.uid);  
  
      var leadsRef = firebase.database().ref('results/' + currentUser + '/');  
  
      leadsRef.on('value', function(snapshot) {  
  
        snapshot.forEach(function(childSnapshot) {  
  
          var childData = childSnapshot.val();  
  
          //log(childData, "ttt");  
  
          // console.log(childData.runId);  
  
          dataArr.push(childData);  
  
          var list = $("#listView");  
  
          var items = [1];  
  
          for (i in items) {  
  
            var html = 'ss'
```

```

var btnId = Math.floor(1000 + Math.random() * 900);

var $something = $('<input/>').attr({ class: 'btns', type: 'button', id: btnId, name: 'btn1',
value: childData.runId });

list.append("<br>");

console.log(i);

list.append($something);

}

var buttons = document.getElementsByClassName("btns");

var buttonsCount = buttons.length;

for (i in buttons) {

    buttons[i].onclick = function (e) {

        // alert(this.value);

        console.log(dataArr);

        for (var i = 0, m = null; i < dataArr.length; ++i) {

            if (dataArr[i].runId == this.value) {

                m = dataArr[i];

                console.log(m, "found");

                var alertPopup = $ionicPopup.alert({

                    title: m.runId,

                    template: "Date " + m.date + "<br> Level " + m.runType + "<br> Run Time " +
m.runTime + "<br> Distance " + m.distance

                });

                break;

```

```
    }  
  }  
};  
}  
console.log(buttonsCount);
```

```
$scope.data = {}
```

```
});
```

```
$.getJSON('http://api.openweathermap.org/data/2.5/weather?lat=35&lon=139&units=imperial&appid=c55971e864d09658c599614f2f51255f', function (data) {
```

```
    console.log(data);
```

```
});
```

```
});
```

```
    } else {
```

```
        console.log('not logged in');
```

```
    }
```

```
})
```

```
});
```

## Index.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="utf-8">
```

```
<meta name="viewport" content="initial-scale=1, maximum-scale=1, user-scalable=no,  
width=device-width">
```

```
<title></title>
```

```
<link href="lib/ionic/css/ionic.css" rel="stylesheet">
```

```
<link href="css/style.css" rel="stylesheet">
```

```
<script src="lib/ionic/js/ionic.bundle.js"></script>
```

```
<script src="https://www.gstatic.com/firebasejs/3.5.2/firebase.js"></script>
```

```
<script src="lib/angularfire/dist/angularfire.js"></script>
```

```
<script src="js/require.js"></script>
```

```
<script src="https://cdn.firebase.com/v0/firebase.js"></script> <!-- firebase -->
```

```
<script src="https://cdn.firebase.com/libs/angularfire/0.5.0/angularfire.min.js"></script>  
<!-- angularfire -->
```

```
<script src="https://cdn.firebase.com/v0/firebase-simple-login.js"></script> <!--  
firebase-simple-login -->
```

```
<script type="text/javascript"></script>
```

```
<script type="text/javascript" src="cordova.js"></script>
```

```
<link href="//code.ionicframework.com/nightly/css/ionic.css" rel="stylesheet">
```

```
<script src="//code.ionicframework.com/nightly/js/ionic.bundle.js"></script>
```

```
<script src='lib/lodash/dist/lodash.min.js'></script>
```

```
<script
```

```
src='https://maps.googleapis.com/maps/api/js?key=AlzaSyCls_E2O_73La5vVeIBsKwyNvXu_6KAjLk'></script>
```

```
<!--For users deploying their apps to Windows 8.1 or Android Gingerbread,  
platformOverrided.js
```

```
will inject platform-specific code from the /merges folder -->
```

```
<script src="js/platformOverrides.js"></script>
```

```
<!-- ionic/angularjs js -->
```

```
<!-- cordova script (this will be a 404 during development) -->
```

```
<!-- your app's js -->
```

```
<script src="js/app.js"></script>
```

```
<script src="js/controllers.js"></script>
```

```
<script src="js/directives.js"></script>
```

```
</head>
```

```
<body ng-app="starter">
```

```
<ion-nav-view></ion-nav-view>
```

```
</body>
```

```
</html>
```

## **Achiev.html**

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<script src="/www/js/jquery.js"></script>
```

```
<script src="/www/js/ajax.js"></script>
```

```
<script type="text/javascript"
src="http://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
```

```
<title></title>
```

```
</head>
```

```
<body>
```

```
<br /><br /><br />
```

```
<p id="test" style="position:center; font-size: large; margin: 5% 17%;">
```

```
no achievements have been unlocked
```

```
</p>
```

```

```

```
<p id="weather" style="margin: 25% 17%;
```

```
position:center;
```



```
font-size: large;

font-style: oblique;">

</p>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.0/jquery.min.js"></script>

</body>

</html>
```

## **Browse.html**

```
<head>

<style>

    .button {

        background-color: #63dd7c; /* Green */

        border: none;

        color: white;

        padding: 15px 32px;

        text-align: center;

        text-decoration: none;

        display: inline-block;

        font-size: 16px;

        margin: 4px 2px;

        cursor: pointer;

        width: 100%;

    }
```

```
.input-label{  
  
    background-color: #336699 ; /* Green */  
  
    border: none;  
  
    color: white;  
  
    padding: 15px 32px;  
  
    text-align: center;  
  
    text-decoration: none;  
  
    display: inline-block;  
  
    font-size: 16px;  
  
    margin: 1px 30.5%;  
  
    cursor: pointer;  
  
    width: 115%;  
  
}
```

```
.input-label2{  
  
    background-color: #336699 ; /* Green */  
  
    border: none;  
  
    color: white;  
  
    padding: 15px 32px;  
  
    text-align: center;  
  
    text-decoration: none;  
  
    display: inline-block;  
  
    font-size: 18px;  
  
    margin: 1px 40%;
```

```
width: 20%;  
  
display: inline-block;  
  
}  
  
.text{  
  
text-align: right;  
  
clear: both;  
  
float:left;  
  
margin-right:15px;  
  
}  
  
.text2{  
  
clear: both;  
  
float:right;  
  
margin-right:15px;  
  
}  
  
.count{  
  
position : relative;  
  
text-align: center;  
  
line-height: 150%;  
  
font-size: 1em;  
  
display:inline-block;  
  
}  
  
.s{
```

```

margin: 4px 46%;

display:inline-block;

width: 100%;

}

.d{

margin: 4px 49%;

display:inline-block;

font-size: 1em;

}

}

</style>

</head>

<ion-view view-title="Run!">

<ion-content>

<br />

<br />

<span class="input-label" id="currentUser" data-tap-disabled="true" style="width:
100%;">Logged in as: </span>

<span class="input-label" id="userId" data-tap-disabled="true"
style="visibility:hidden"></span>

<div class="s" style="margin: 4px 48.2%;"><span id="count"><p class="count">5
</p></span> </div>

<div class="s"><span id="hours"><p class="count">0 </p></span>:<span id="minutes"> <p
class="count">0</p></span>:<span id="seconds"> <p class="count">0</p></span> </div>

```

```
<span class="input-label2" id="distance" data-tap-disabled="true">0 </span> <p
class="text2"><p class="d"> m </p>
```

```
<span class="input-label2" id="speed" data-tap-disabled="true">0 </span> <p
class="text2"> <p class="d" style="margin: 4px 47%"> km/h </p>
```

```
<span id="loc" style="visibility: hidden">x</span>
```

```
<span id="loc2" style="visibility: hidden">y</span>
```

```
<span id="check" style="visibility: hidden">0</span>
```

```
<button class="button" id="strtBtn" ng-click="click()">Start</button>
```

```
<button class="button" ng-click="stop()">Stop</button>
```

```
<label class="item item-input">
```

```
<span class="input-label3" id="notify" data-tap-disabled="true"></span>
```

```
<input type="text">
```

```
</label>
```

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

```
</ion-view>
```

## CreateEvent.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
.button {
```

```
background-color: #336699; /* Green */
```

```
border: none;
```

```
color: white;
```

```
padding: 15px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

cursor: pointer;

width: 100%;

}

.text {

background-color: #336699; /* Green */

border: none;

color: white;

padding: 15px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 20%;

cursor: pointer;

width: 50%;

}

.label{

display: block;
```

```
    text-align: center;

    line-height: 150%;

    font-size: 1.5em;

}

</style>

<title></title>

<script src="//code.angularjs.org/snapshot/angular.min.js"></script>

<script src="../js/controllers.js"></script>

<script src="../js/app.js"></script>

<script src="../js/directives.js"></script>

<script src='https://cdn.firebase.com/js/client/2.2.1/firebase.js'></script>

<script src='https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js'></script>

<script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.2.7/angular-resource.min.js"></scrip
t>

</head>

<body ng-controller="testCtrl">

  <div ng-controller="testCtrl">

    <form action="javascript:;" onsubmit="test(this)">

      <input type="text" id="lat" name="lat" value="" style='visibility:hidden'><br>

      <input type="text" id="long" name="long" value="" style='visibility:hidden'><br>

      <p class="label">Level</p> <input type="text" class="text" name="Level" value=""><br>

      <p class="label">Time</p> <input type="time" class="text" id="Time"
name="usr_time"><br>
```

```
<p class="label">Date</p><input type="date" class="text" id="Date" name="date"
><br><br>

<input type="submit" class="button" id="sub" value="Submit">

</form>

<script src="https://www.gstatic.com/firebasejs/3.7.1/firebase.js"></script>

<script src="https://www.gstatic.com/firebasejs/3.7.1/firebase-database.js"></script>

<script>

// Initialize Firebase

// TODO: Replace with your project's customized code snippet

var config = {

  apiKey: "AlzaSyBLIzp11Cl5W7ya770TujFQw1su4ivsJvE",

  authDomain: "runforit-149417.firebaseio.com",

  databaseURL: "https://runforit-149417.firebaseio.com",

  storageBucket: "runforit-149417.appspot.com",

  messagingSenderId: "354020409053"

};

firebase.initializeApp(config);

upload = function (data) {

  var currentUser = "";

  console.log(data);

  console.log(data.level);

  firebase.auth().onAuthStateChanged(firebaseUser => {

    if (firebaseUser) {

      currentUser = firebaseUser.uid;

    }

  });

}
```



```
    console.log(firebaseUser.uid);

    var runId = Math.floor(100000000 + Math.random() * 900000000);

    firebase.database().ref('event/' + runId).set({

        lat: data.lat,

        long: data.long,

        level: data.level,

        time: data.time,

        date: data.date

    });

} else {

    console.log('not logged in');

}

})

}

</script>

<script>

function getUrlVars() {

    var vars = {};

    var parts = window.location.href.replace(/[?&]+(?:=[^&]+)?/gi, function (m, key,

value) {

        vars[key] = value;

    });

    return vars;
```

```
}

document.getElementById("lat").value = getUrlVars()["lat"];

document.getElementById("long").value = getUrlVars()["long"];

function test(data) {

    console.log(data.Time.value);

    var eventData = {

        "lat" : data.lat.value,

        "long" : data.long.value,

        "level" : data.Level.value,

        "time": data.Time.value,

        "date": data.Date.value

    }

    console.log(eventData);

    alert("Event Created");

    window.location.href = "/#/app/welcome";

    document.getElementById("ret").style.visibility = "visible";

    document.getElementById("sub").style.visibility = "hidden";

    //uploadData('s');

    upload(eventData);

}

</script>


```

```
</div>
```

```
</body>
```

```
</html>
```

## Login.html

```
<ion-modal-view>
```

```
<ion-header-bar>
```

```
<style>
```

```
.s {
```

```
background-color: #336699; /* Green */
```

```
border: none;
```

```
color: white;
```

```
padding: 15px 32px;
```

```
text-align: center;
```

```
text-decoration: none;
```

```
display: inline-block;
```

```
font-size: 16px;
```

```
margin: 4px 2px;
```

```
cursor: pointer;
```

```
width: 100%;
```

```
}
```

```
</style>
```

```
<h1 class="title">Login</h1>
```

```
<div class="buttons">
```

```
<button class="button button-clear" ng-click="closeLogin()">Close</button>
```

```
</div>
```

```
</ion-header-bar>
```

```
<ion-content>
```

```
<form>
```

```
  <script type="text/javascript" src="ng-cordova.js"></script>
```

```
  <script type="text/javascript" src="cordova.js"></script>
```

```
<div class="list">
```

```
  <label class="item item-input">
```

```
    <span class="input-label">email</span>
```

```
    <input id="email" type="email" ng-model="loginData.email">
```

```
  </label>
```

```
  <label class="item item-input">
```

```
    <span class="input-label">Password</span>
```

```
    <input id="password" type="password" ng-model="loginData.password">
```

```
  </label>
```

```
  <label class="item">
```

```
    <button class="button button-block button-positive" id="btnLogIn" type="submit"  
ng-click="doLogin()" style="background-color:#336699">Log in</button>
```

```
  </label>
```

```
  <label class="item">
```

```
    <button class="button button-block button-positive" id="btnSignUp" type="submit"  
ng-click="doSignup()" style="background-color:#336699">Sign up</button>
```

```
  </label>
```

```
  <label class="item">
```

```
<button class="button button-block button-positive" id="btnLogout" type="submit"
ng-click="doLogout()" style="background-color:#336699">Log out </button>
```

```
</label>
```

```
</div>
```

```
</form>
```

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

```
</ion-modal-view>
```

## Menu.html

```
<ion-side-menus enable-menu-with-back-views="false">
```

```
<ion-side-menu-content>
```

```
<ion-nav-bar class="bar-stable">
```

```
<ion-nav-back-button>
```

```
</ion-nav-back-button>
```

```
<ion-nav-buttons side="left">
```

```
<button class="button button-icon button-clear ion-navicon" menu-toggle="left">
```

```
</button>
```

```
</ion-nav-buttons>
```

```
</ion-nav-bar>
```

```
<ion-nav-view name="menuContent"></ion-nav-view>
```

```
</ion-side-menu-content>
```

```
<ion-side-menu side="left">

  <ion-header-bar class="bar-stable">

    <h1 class="title">Menu</h1>

  </ion-header-bar>

  <ion-content>

    <ion-list>

      <ion-item menu-close ng-click="login()">

        Login

      </ion-item>

      <ion-item menu-close href="templates/run.html">

        Map

      </ion-item>

      <ion-item menu-close href="#/app/settings">

        Run

      </ion-item>

      <ion-item menu-close href="#/app/myRuns">

        My Runs

      </ion-item>

      <ion-item menu-close href="#/app/achiev">

        Weather

      </ion-item>

    </ion-list>

  </ion-content>

</ion-side-menu>
```

```
</ion-side-menus>
```

## **myRuns.html**

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title></title>
```

```
  <link rel="stylesheet" type="text/css" href="ionic.css">
```

```
  <style>
```

```
    .btns {
```

```
      background-color: #336699 ; /* Green */
```

```
      border: none;
```

```
      color: white;
```

```
      padding: 15px 32px;
```

```
      text-align: center;
```

```
      text-decoration: none;
```

```
      display: inline-block;
```

```
      font-size: 16px;
```

```
      margin: 4px 2px;
```

```
      cursor: pointer;
```

```
      width: 100%;
```

```
    }
```

```

    </style>
</head>

<body><br /><br /><br /><button onclick="location.reload();" style="background-color:
#336699; color: white">Update Scores</button>

  <div style="margin: -20px -50px;
  position:relative;
  top:10%;
  left:0%;
  font-style:oblique;">
    ttt
    <ul id="listView" style="height:100vh; width:100%; overflow:hidden;
overflow-y:scroll;"></ul>

  </div>
</body>
</html>

```

### Run.html

```

<!DOCTYPE html>
<html>
<head>
  <style>
    .button {
      background-color: #336699; /* Green */
      border: none;

```



```

    color: white;

    padding: 15px 32px;

    text-align: center;

    text-decoration: none;

    display: inline-block;

    font-size: 16px;

    margin: 4px 2px;

    cursor: pointer;

    width: 100%;

}

</style>

</head>

<body>

    <div id="map" style="width:100%;height:60vh;background-color:aqua"></div>

    <form action="createEvent.html" onsubmit="latlng">

        <input type="text" id="long" name="long" style='visibility:hidden' value=""><br>

        <input type="submit" class="button" id="sub" value="Submit" style='visibility:hidden;'>

        <input type="text" name="lat" id="lat" style='visibility:hidden' value=""><br>

        <a class="button button-light" id="planA" style="display: block; width: 80%;"
href="/#/app/achiev">Return</a>

    </form>

    <input id='btn_2' type='button' value='button 2'
onclick="window.location='createEvent.html'" style='visibility:hidden' />

    <script src="https://www.gstatic.com/firebasejs/3.7.1/firebase.js"></script>

    <script src="https://www.gstatic.com/firebasejs/3.7.1/firebase-database.js"></script>

```

```
<script>function initialize() {  
  
// var myLatLng = { lat: 51.5, lng: -0.2 };  
  
var mapCanvas = document.getElementById("map");  
var modal = document.getElementById('myModal');  
  
if (navigator.geolocation) {  
    navigator.geolocation.getCurrentPosition(function (position) {  
        initialLocation = new google.maps.LatLng(position.coords.latitude,  
position.coords.longitude);  
  
        // map.setCenter(initialLocation);  
  
        var mapOptions = {  
            center: initialLocation,  
            zoom: 15  
        }  
  
        var map = new google.maps.Map(mapCanvas, mapOptions);  
  
        var marker = new google.maps.Marker({  
            position: initialLocation,  
            map: map,  
            title: 'You are here'  
        });  
  
        map.addListener('click', function () {  
            var currentDate = new Date();  
            var day = currentDate.getDate();
```

```
var month = currentDate.getMonth() + 1;

var year = currentDate.getFullYear();

var date = day + '/' + month + '/' + year;

console.log(date);

var title = 'Time: ' + '00:00\n' + ' Date:' + date + 'Level:' + 'levelType';
```

```
var NewMapCenter = map.getCenter();

var latitude = NewMapCenter.lat();

var longitude = NewMapCenter.lng();

var latLng = new google.maps.LatLng(latitude, longitude);

console.log(latitude, longitude);
```

```
document.getElementById("lat").value = latitude;

document.getElementById("long").value = longitude;

document.getElementById("sub").style.visibility = "visible";
```

```
var marker = new google.maps.Marker({

    position: latLng,

    map: map,

    title: title

});

});
```

```
var infowindow = new google.maps.InfoWindow();

infowindow.setContent('You are here');

infowindow.open(map, marker);

var config = {

  apiKey: "AlzaSyBLIzp11Cl5W7ya770TujFQw1su4ivsJvE",

  authDomain: "runforit-149417.firebaseio.com",

  databaseURL: "https://runforit-149417.firebaseio.com",

  storageBucket: "runforit-149417.appspot.com",

  messagingSenderId: "354020409053"

};

firebase.initializeApp(config);

var currentUser = 0;

firebase.auth().onAuthStateChanged(firebaseUser => {

  if (firebaseUser) {

    currentUser = firebaseUser.uid;

    console.log(firebaseUser.uid);

    var leadsRef = firebase.database().ref('event/');

    leadsRef.on('value', function (snapshot) {

      snapshot.forEach(function (childSnapshot) {

        var childData = childSnapshot.val();

        //console.log(childData, "ttt");

        //console.log(childData.runId);

        items = childData;

        //console.log(items);

      });

    });

  }

});
```

```
//console.log(items);

for (i in items) {

    // console.log(i, items[i]);

    console.log(items['lat'], items['long']);

    var title = items['level'] + '\n' + items['date'] + '\n\ ' + items['time'];

    var latlng = new google.maps.LatLng(items['lat'], items['long']);

    //console.log(latlng)

    var marker = new google.maps.Marker({

        position: latlng,

        map: map,

        title: title

    });

    var infowindow = new google.maps.InfoWindow();

    infowindow.setContent(title);

    infowindow.open(map, marker);

}

});

});

} else {

    console.log('not logged in');

}
```

```
    })
  });
}

else alert("Location Services Error");
```

```
}</script>
```

```
<script
src="https://maps.googleapis.com/maps/api/js?key=AlzaSyCls_E2O_73La5vVeIBsKwyNvXu
_6KAjLk&callback=initialize"></script>
```

```
</body>
```

```
</html>
```

## **Welcome.html**

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title></title>
```

```
</head>
```

```
<body ng-controller="achievCtrl">
```

```
  <p id="test" style="margin: -20px -50px;
```

```
    position:relative;
```

```
    top:50%;
```

```
    left:50%;
```

```
font-style:oblique;">
```

```
Weather data should go here</p>
```

```
</body>
```

```
</html>
```

## Testing

1. I've tested the application in both local host environment and in standalone version on Android
  - 1.1. Launching the app without permissions
  - 1.2. Sending null location values to be compared against proper geolocation data
  - 1.3. Data upload and data retrieval
2. The final version of the application was installed on 5 different android phones with various version of operating system
3. A questionnaire was distributed which included questions about the performance, responsiveness and server response times of the app.
4. iOS version of the app was only tested in localhost environment as I had no access to required apple products.

## User Guide

User guide will be located on my private server in form of website and series of videos

<https://www.subview.eu/index.html>