



DEVNATION

April 13-17, 2014 San Francisco, California



Cross platform with AeroGear

mobile development made easy

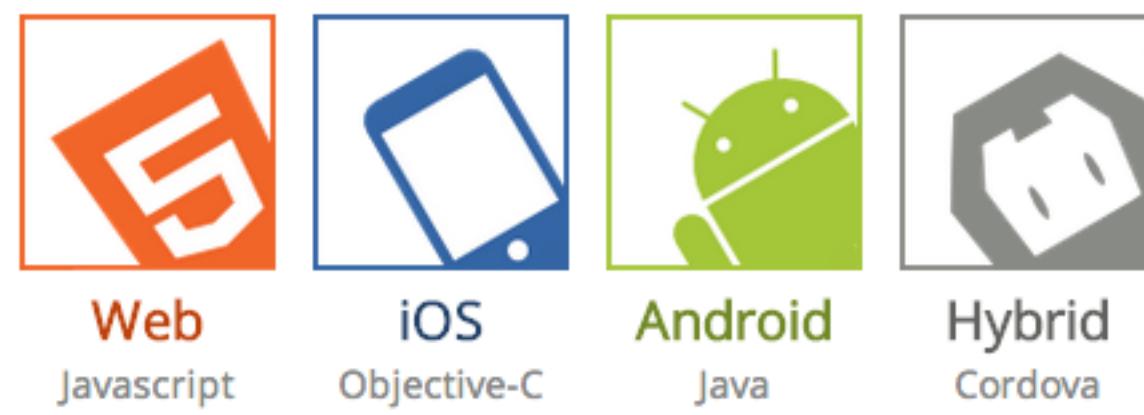
Erik Jan de Wit - Software Developer
Red Hat



AeroGear



AeroGear



Pipes

```
var memberPipe = AeroGear.Pipeline([{
  name: "members",
  settings: {
    baseURL: "http://todo-aerogear.rhcloud.com/rest/"
  }
}).pipes.members;
```

JAVASCRIPT

```
memberPipe.read({
  success: function( data ) {
    ...
    $( "#members" ).html( buildMemberRows() );
  },
  error: function (error) {
    console.log(error);
  }
});
```

JAVASCRIPT



Pipes on Android

```
Pipeline pipeline = new Pipeline("http://todo-aerogear.rhcloud.com/rest/");  
pipeline.pipe(Member.class);  
LoaderPipe<Member> pipe = pipeline.get("member", this);
```

JAVA

```
pipe.read(new AbstractActivityCallback<List<Member>>(){  
    void onSuccess(List<Member> data) {  
        ...  
    }  
    void onFailure(Exception e){  
        //Gracefully handle the exception  
    }  
});
```

JAVA



6/24

Pipes on iOS

```
// Create the 'Pipe'  
IOS  
NSURL* serverURL = [NSURL URLWithString:@"http://todo-aerogear.rhcloud.com/rest/"];  
AGPipeline* memberPipe = [AGPipeline pipelineWithBaseURL:serverURL];  
id<AGPipe> projects = [todo pipe:^(id<AGPipeConfig> config) {  
    [config setName:@"members"];  
}];
```

```
// Read  
IOS  
[memberPipe read:^(id response) {  
    ...  
    [self.tableView reloadData];  
} failure: ^NSError *error) {  
    NSLog(@"Error: %@", error);  
}];
```



DataManager

```
var dm = AeroGear.DataManager( "tasks" ).stores[ 0 ];  
  
dm.save({  
    id: 12345,  
    title: "Created Task"  
});  
  
var allData = dm.read();  
var justOne = dm.read( 12345 );  
  
var filteredData = dm.filter({  
    date: "2012-08-01",  
    user: "admin"  
});
```

JAVASCRIPT



8/24

Crypto

JAVASCRIPT

```
var rawPassword =  
AeroGear.Crypto().deriveKey( PASSWORD ),  
utf8String = sjcl.codec.utf8String,  
hex = sjcl.codec.hex,  
cipherText,  
options = {  
    IV: hex.toBits( BOB_IV ),  
    AAD: hex.toBits( BOB_AAD ),  
    key: rawPassword,  
    data: utf8String.toBits( PLAIN_TEXT )  
};  
  
cipherText = AeroGear.Crypto().encrypt( options );  
options.data = cipherText;  
plainText = AeroGear.Crypto().decrypt ( options );  
equal( utf8String.fromBits( plainText ), PLAIN_TEXT, "Encryption has failed" );
```

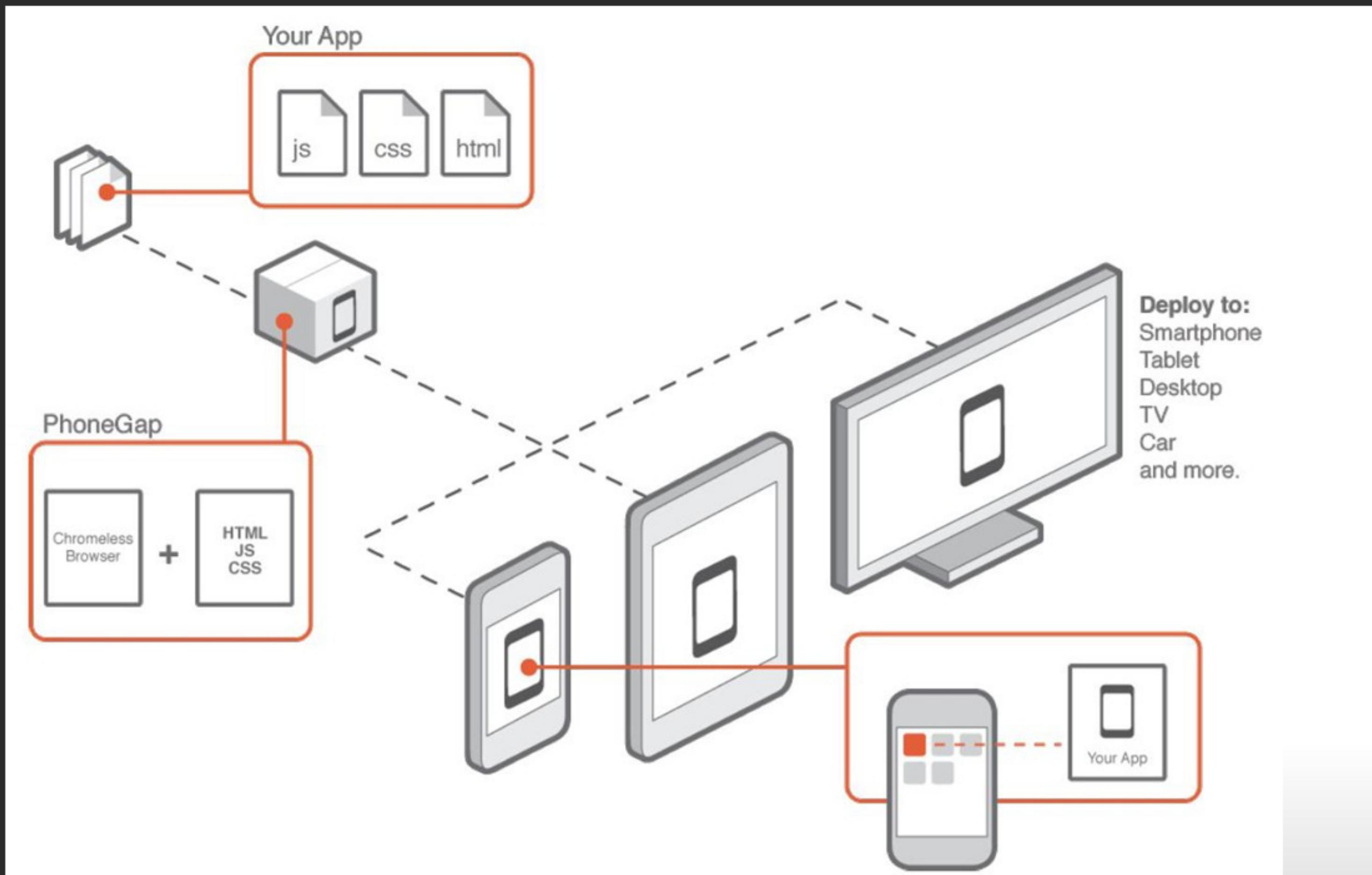


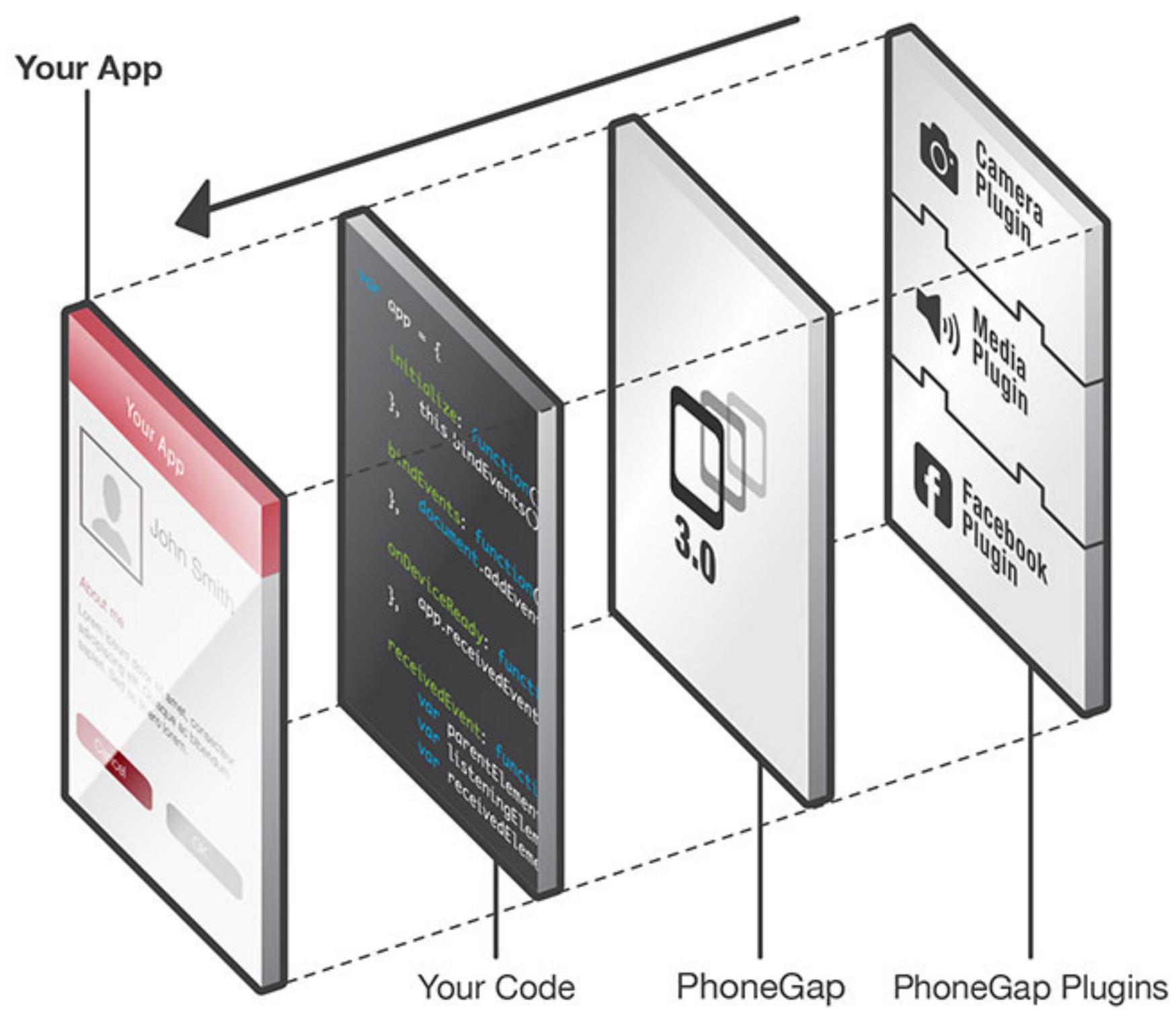
9/24



Demo time

let's code some stuff





Uncanny Valley



source: csmonitor

Showcase apps



source: phonegap

Frameworks

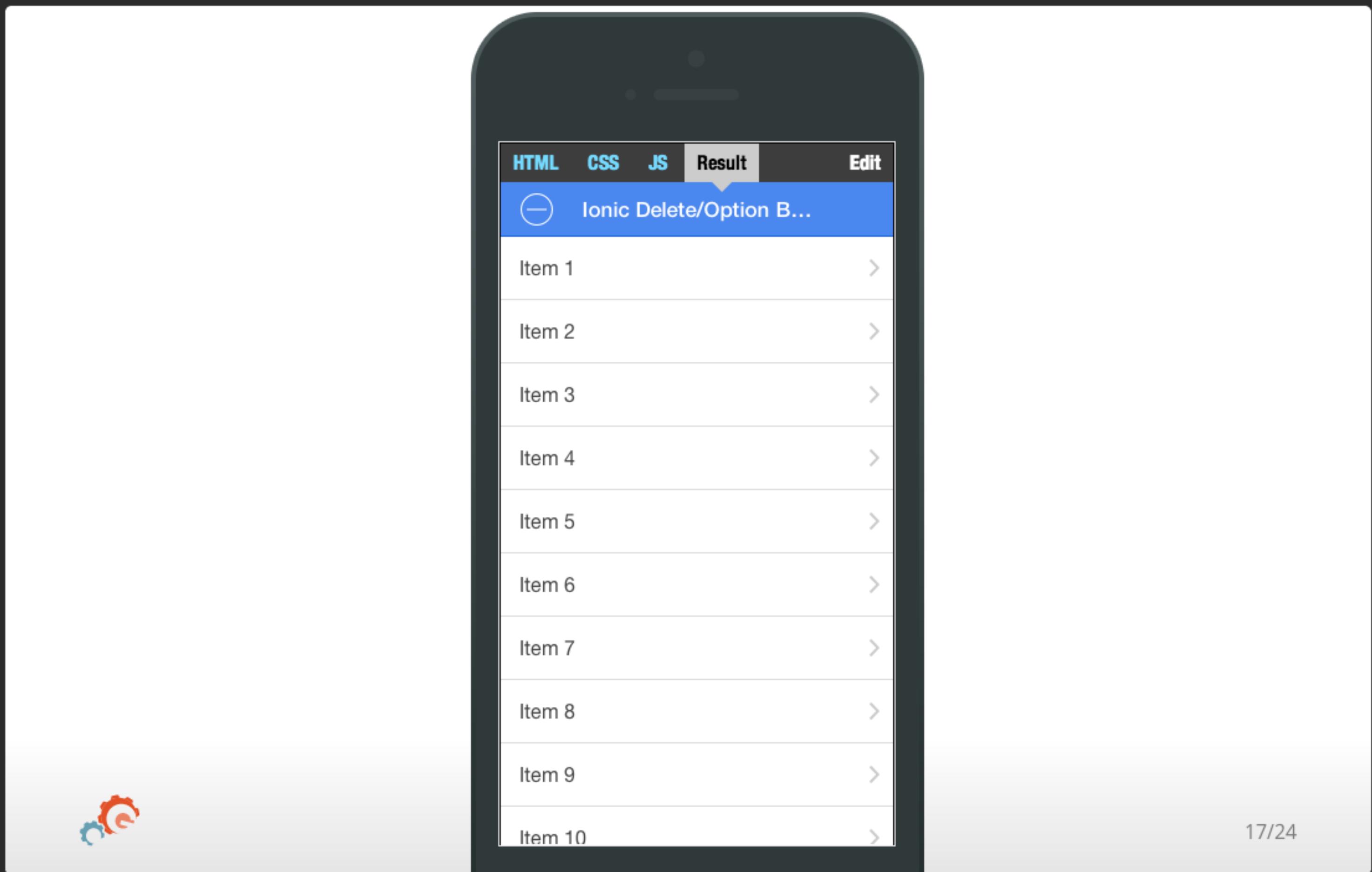


Topcoat



Other goodies



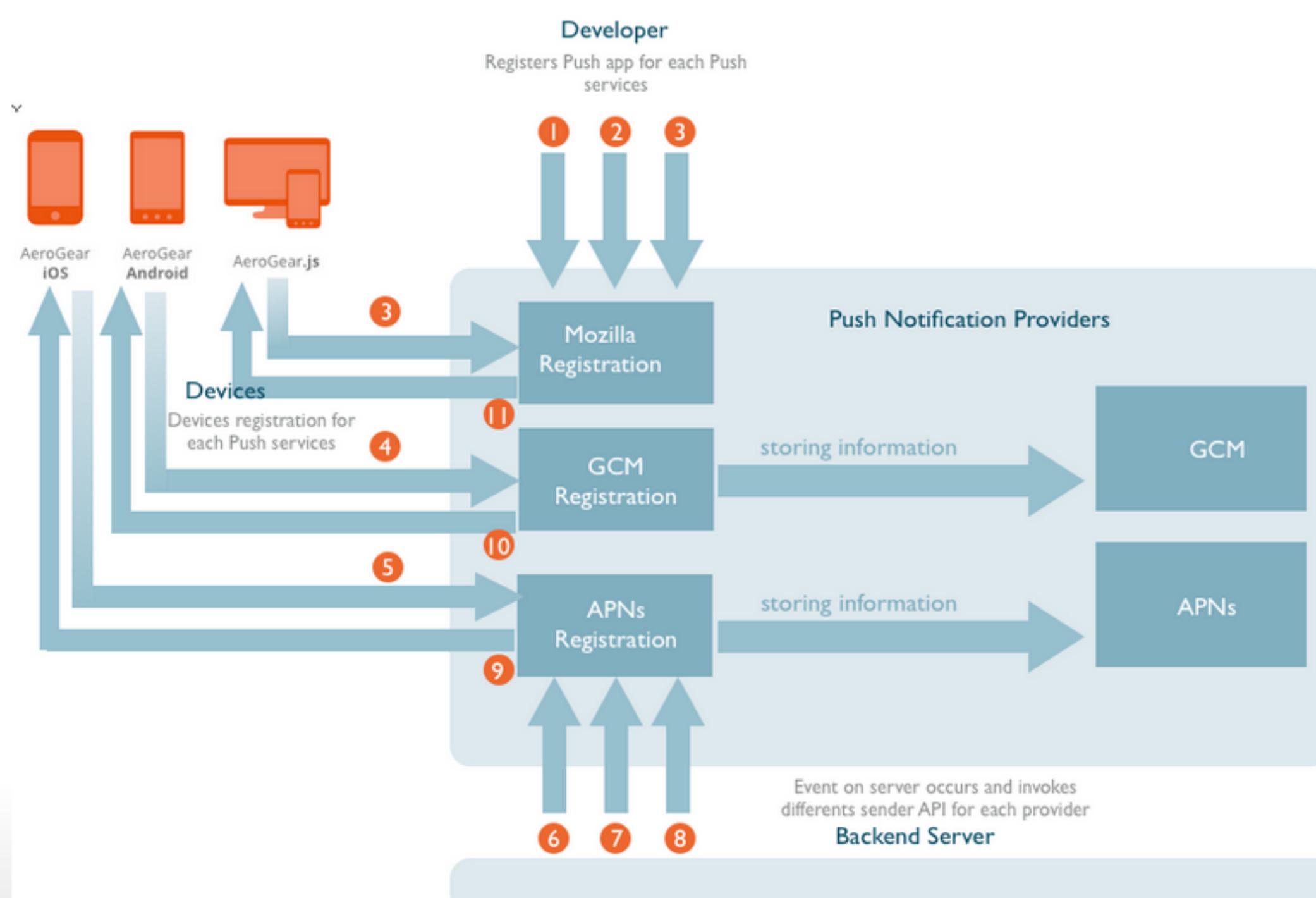




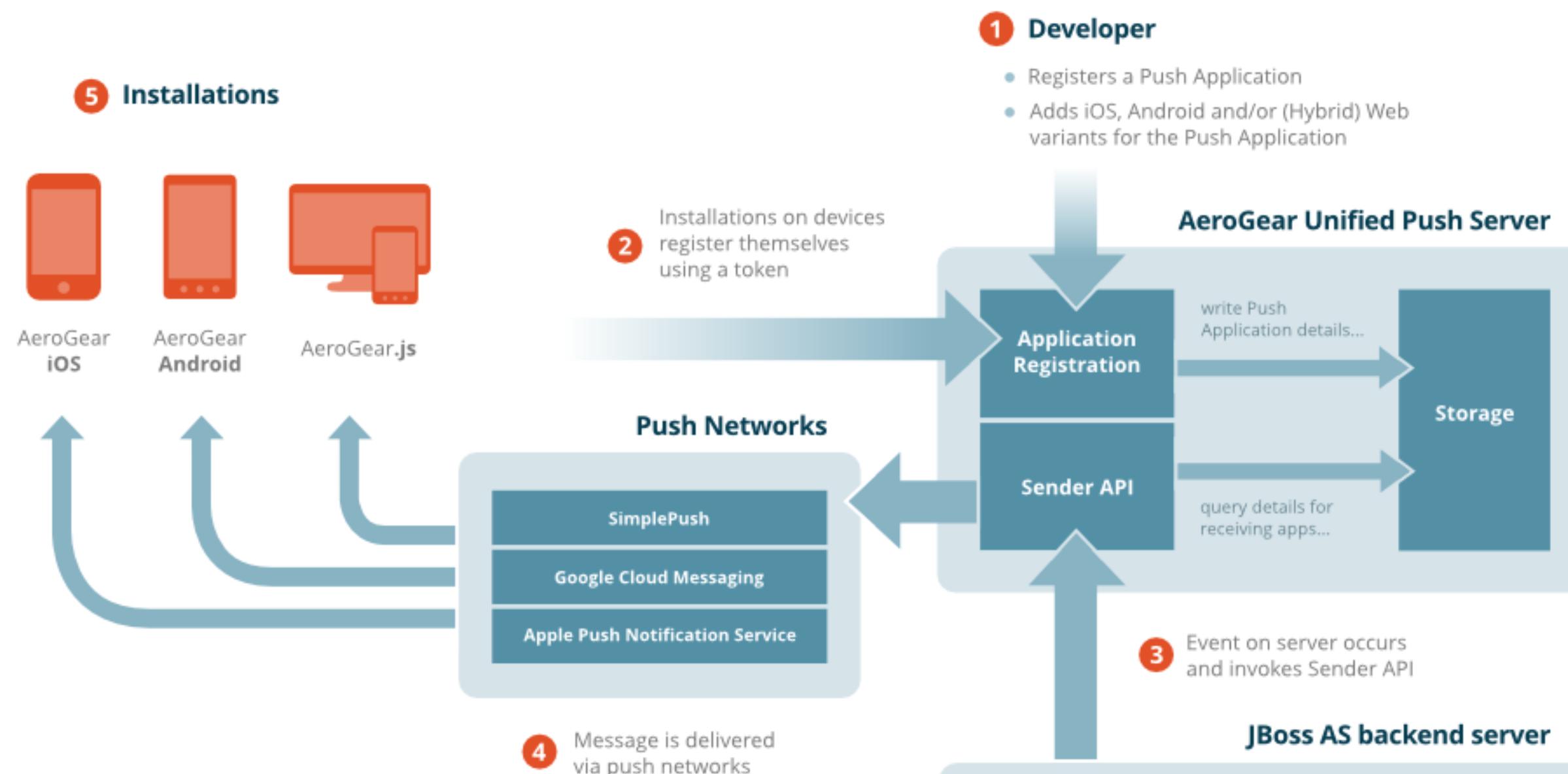
Demo time

let's code some stuff

Complex



AeroGear UnifiedPush

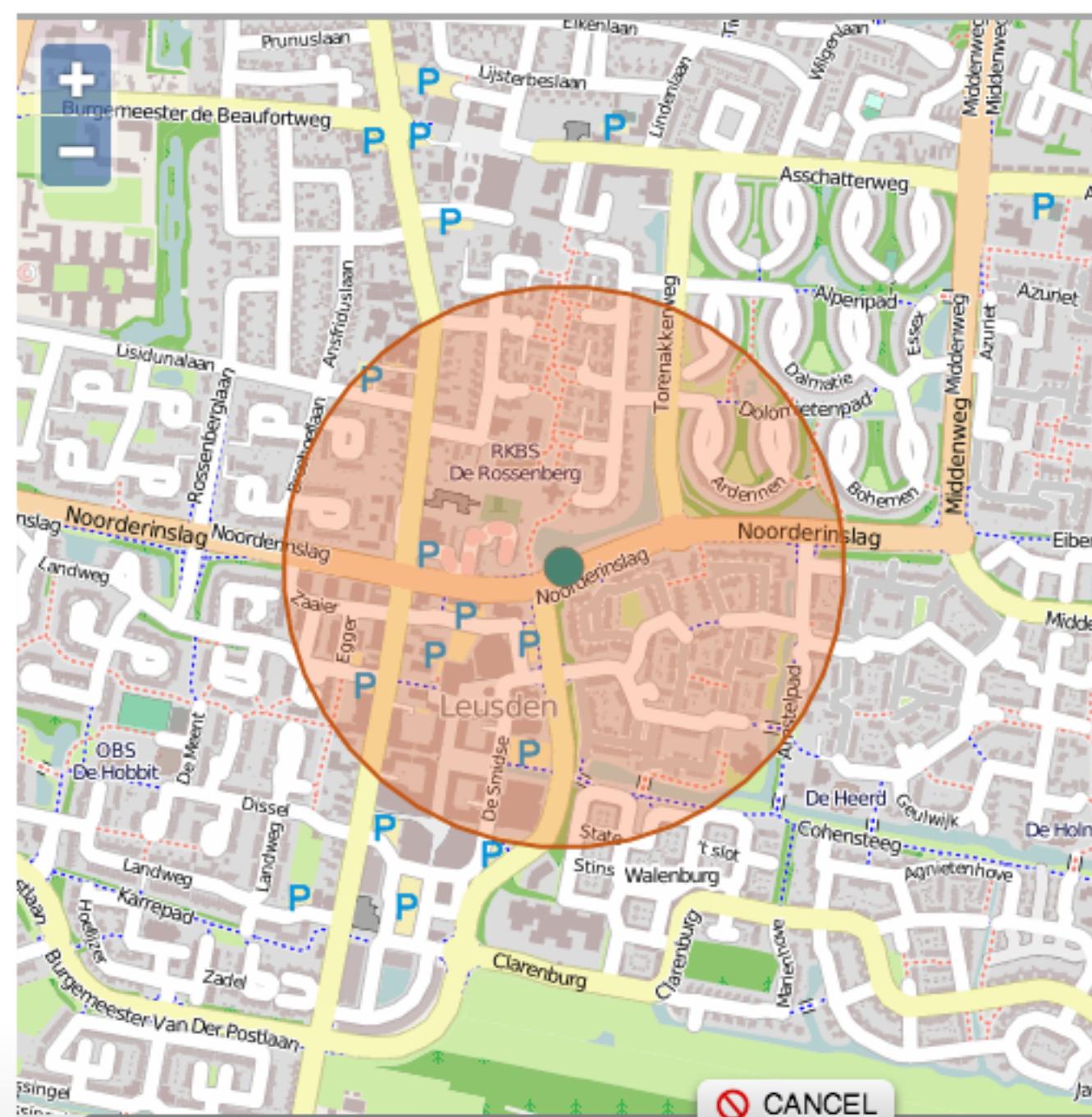




Demo time

let's code some stuff

AeroGear Cordova Geo



AeroGear Cordova Crypto



<Thank You!>

twitter @edewit

www aerogear.org/

github github.com/aerogear

chat irc.freenode.net/aerogear

