

APPMOB - Introduction

Olivier Liechti & Simon Oulevay
COMEM Applications Mobiles

heig-vd

Haute Ecole d'Ingénierie et de Gestion
du Canton de Vaud



Objectives

Objectives for the course

- Develop a multi-platform hybrid mobile application with Ionic:
 - Build on the Citizen Engagement API developed in the previous course
 - Understand the basics of the Ionic mobile application framework
 - Understand the basic of the AngularJS web framework
 - Use native mobile functionality:
 - Camera
 - Learn to integrate external libraries and services:
 - Geo-location
 - Mapbox



Theme

IOT MIDDLEWARE FOR REACTIVE CITIES

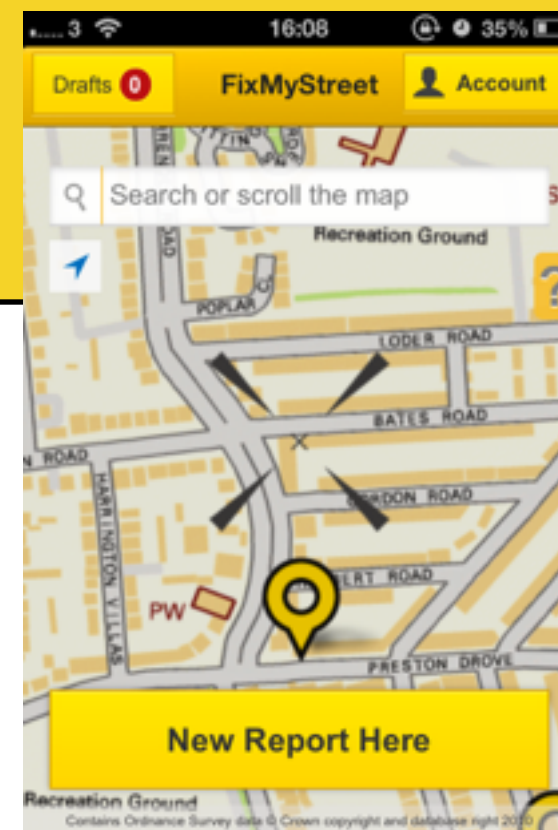
IF my city breathes THEN I can feel its pulse

CONTEXT

iFLUX is an ongoing project, conducted in the broader context of the iNUIT research programme at the University of Applied Sciences Western Switzerland. Whereas iNUIT intends to create a complete **IoT stack for smart city applications**, iFLUX focuses more particularly on the **middleware layer**. Our goal is to build an event-driven, rule-based environment that will make it easier to integrate the various iNUIT components and to automate urban workflows.

Web Services Course

Mobile App Course





Planning & Guidelines

Today (April 4th)

Introduction

The Ionic Framework
Concepts & Installation

AngularJS
Concepts

Application Setup
UI Design & Skeleton App

After Today (April 5th to April 8th)

The Angular Scope
Angular UI Router

Asynchronous JavaScript in Angular
Web Geo-location

Mapbox Integration
JavaScript Closures

Cordova Camera Plugin
Image Upload