KILOMETER MANAGEMENT: MOBILE AND DESKTOP APPLICATIONS FOR THE EMPLOYEES OF PASI-JAKELUT OY

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INSPIRATIONS

- Based on the problems faced by the Pasi-Jakelut Employees,
- Office employees (Supervisors) have hard time to manage the kilometre details provided by the advertisement (mainoksia) deliverers

OBJECTIVES

- The main idea is to develop a hybrid mobile application for the deliverers and desktop web application for the Supervisors where deliverers can send the kilometer details as well as update basic personal informations.
- The Supervisor can check kilometer detail send by the deliverers.

APPLICATION FEATURES

Supervisors (Office Employee) Interface

- Supervisor interface
- Can view kilometre details
- Can send messages to the deliverer and vice versa.
- Can add, update, delete deliverers
- ✤ Add new Supervisor
- Can view the detail information of the deliverer.

User (Deliverer) interface

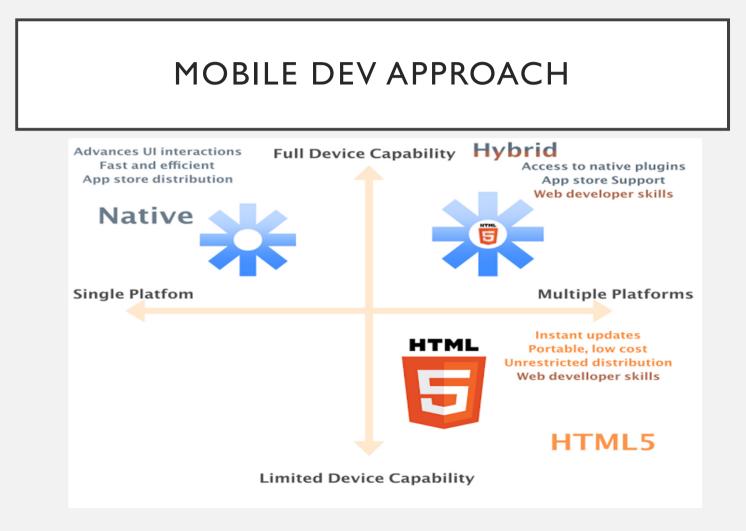
- Registered by the Supervisor
- Can login from the login information given by Supervisor
- Can Send the kilometre details
- Can send message and vice versa
- Can update profile, change password

USED TECHNOLOGIES AND IMPLEMENTATION

- Visual Studio Code
- Ionic Framework : Version 2
- ✤ Node.js
- ✤ HTML 5
- TypeScript
- ✤ PHP
- MySQL Database
- ✤ JSON
- PHP Desktop

MOBILE DEV APPROACH

- Native Apps
 - > iOS, Android, Windows
- HTML 5 Apps
 - Built using HTML, CSS and JavaScript
- Hybrid Apps
 - > Web apps wrapped in a native container

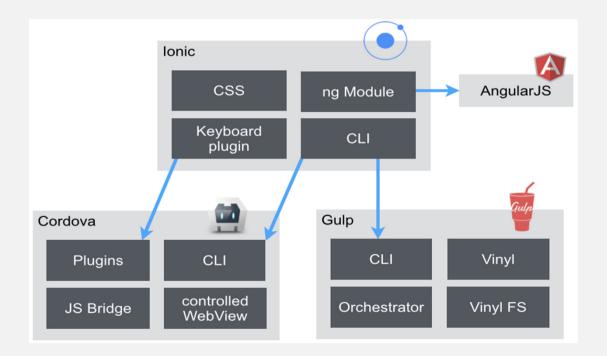


IONIC FRAMEWORK

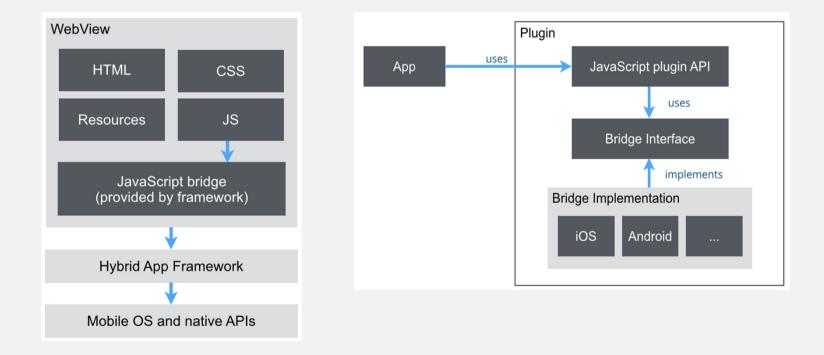
- A user interface framework helps to build hybrid mobile apps with native feels using HTML 5 SDK, Created in 2013 by Drifty Co., Alpha version in November 2013, in March 2015 a 1.0 final version was released and in 2016 and early 2017, several 2.0 were released. Ionic 3 Beta has been released in early April of 2017,
- Built on top of Angular gives structure to the application
- Use JavaScript (ES5) or Typescript along with HTML 5, CSS (SCSS),
- Apache Cordova as a native wrapper,
- Supports multiple platforms (Android, iOS, Windows)



IONIC ARCHITECTURE



APACHE CORDOVA ARCHITECTURE



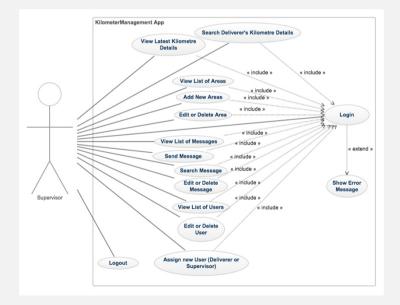
PHP-MYSQL AND PHP DESKTOP

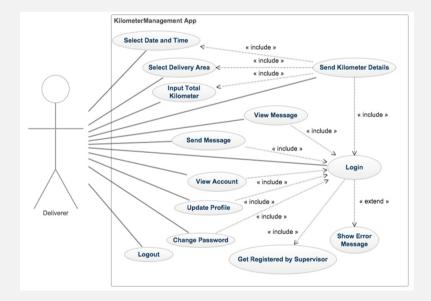
- To connect the MySQL database, PHP is used as a server side APIs for the mobile and the PHP Web pages are implemented for the desktop web app.
- MySQL database (host: mysql.cc.puv.fi), Web server: www.cc.puv.fi/~e1200655/
- PHP md5 encryption is used.
- PHP Desktop open source, created in 2012 by Czarek Tomczak for native desktop GUI purpose using Web technologies like PHP, HTML5, JavaScript..
- No new API/framework to learn, copy paste existing website "phpdesktop/www/" directory gives you desktop app
- Inno Setup Installer helps to distribute the app by creating standalone executable setup file.

JSON

- ✤ JSON (JavaScript Object Notation) to send and retrieve.
- Simple and easy to parse for the system.
- To parse JSON object, respData as JSONObject is created.

USE CASE DIAGRAM

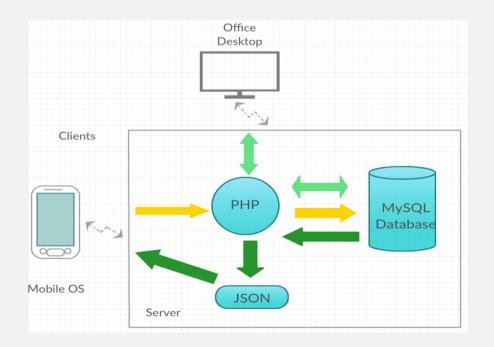




Supervisor's Use Case Diagram

Deliverer's Use Case Diagram

KILOMETER MANAGEMENT APP – BASIC ARCHITECTURE



APPS FOLDER STRUCTURES

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Ionic 2 mobile app

Web App

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REFERENCES

- ✓ ✓ <u>https://github.com/cztomczak/phpdesktop</u>
- ✓ <u>https://ionicframework.com/</u>
- http://codingthesmartway.com/ionic-2-project-structure/
- ✓ <u>http://www.androidauthority.com/html-5-vs-native-android-app-607214/</u>
- <u>https://blog.codecentric.de/en/2014/11/ionic-angularjs-framework-on-the-rise/</u>
- https://commons.wikimedia.org/wiki/File:HTML5_logo_and_wordmark.svg

THANK YOU ANY QUESTIONS/SUGGESTIONS??