

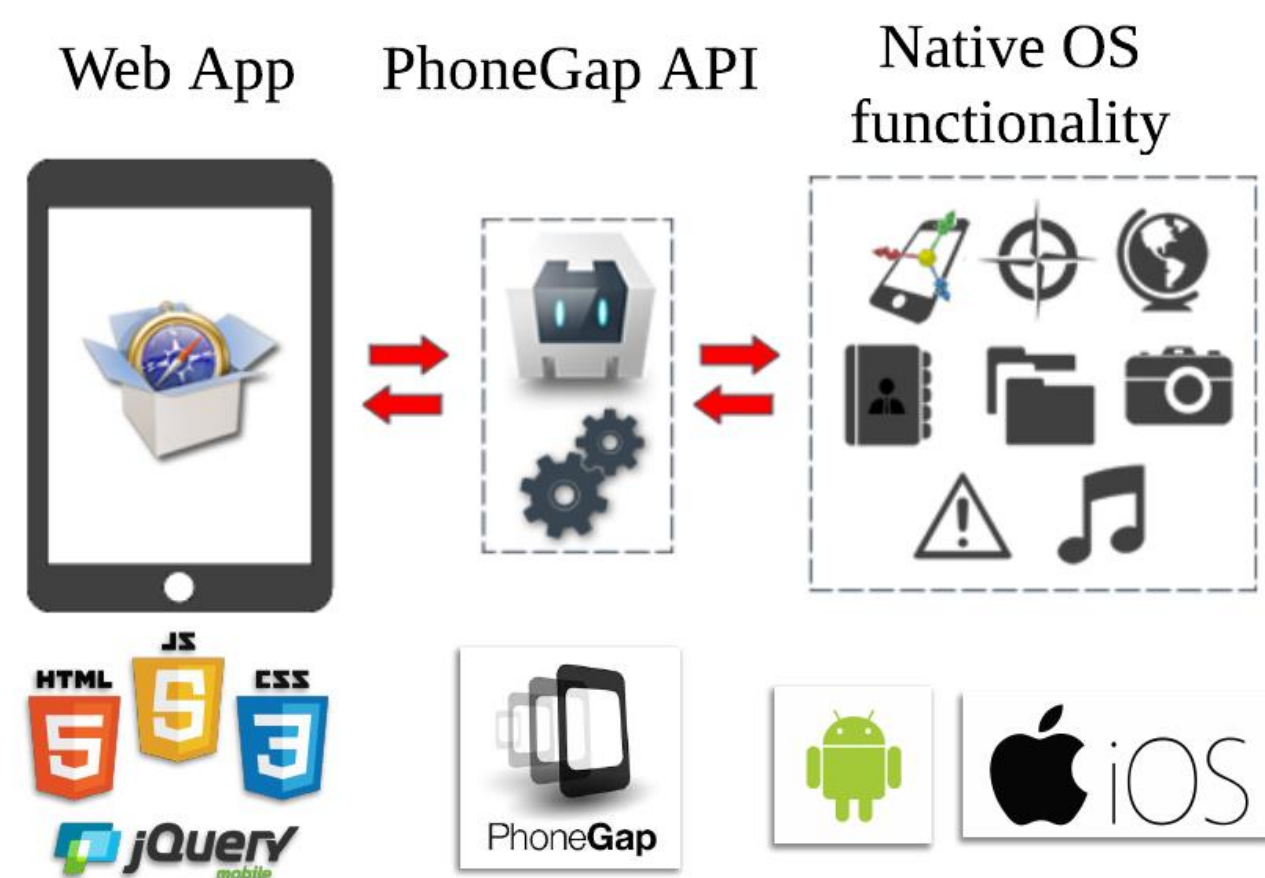
# Cross Platform Mobile Application for Planning A School Trip

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## Aims of the project

- Develop an app for school teachers to simplify the process of planning an off-site class visit
- Develop for Android and iOS
- Use the guidelines available from the Scottish Advisory Panel for Outdoor Education (SAPOE)
- Functionality to generate completed risk assessments and visit plans

## System Overview



Adapted from "PhoneGap Explained Visually" by Andrew Trice 02 May 2012.  
<https://phonegap.com/blog/2012/05/02/phonegap-explained-visually/>

## Features of the Application

- Step by step guide of how to plan a visit
- Example forms to view
- Complete a Risk Assessment or Visit Plan
- Access email to send out the completed forms

Risk Assessment				
Name of School:	A School			
Visit Type:	Routine and Expected Visit			
Visit Location:	Local Park			
Assessment prepared by:	Lisa Davie			
Date prepared:	2017-07-26			
Item	Potential Hazards	Control Measures	Further Actions Required	Implementation Plan for Further Actions
1	Issues with walking to the venue.	Adequate staff ratio. Ensure staff are familiar with the route. Set clear procedures for walking as a group.	Need additional helpers on the day	Send out email asking for parent helpers
2	Adverse weather.	Obtain weather forecast if necessary. Issue clothing advice and check before visit. Carry spare clothing if necessary.		
3	Emergencies.	Medical details and medicines carried. Mobile phone carried.		
		Sign	Date	Review Due
Prepared by:				
Approved by:				

Sample Risk Assessment generated by the app

## Achievements

- Self contained and works offline
- Client-side form processing
- PDF generation using jsPDF JavaScript library
- Settings allow user to customise forms
- Access to native functions of the mobile from within the app
- Successfully tested on Android and iOS

## Acknowledgements

This project was proposed by and carried out in consultation with Mike Harvey, Outdoor Learning Instructor. All content provided in the app was used with the permission of SAPOE.

## Summary

Using a cross platform framework such as PhoneGap allows Developers to develop once and deploy to multiple platforms, reducing development time and maintaining consistency.

