

Wacana Ilmu

Pembangunan Sistem CICTKL

Zailis bin Abu Bakar

Latarbelakang

- Krew
 - Mazwan, Norain, Zuraida, Harlina
- Pembangunan aplikasi mobil
- Pembangunan sistem berasaskan web

Aplikasi Mobile

- Native
 - Android : Java Language
 - IOS : Objective C
- Cross Platform
 - PhoneGap
 - CSS, HTML5, Javascript
 - jQuery Mobile – Javascript Library utk create UI bagi apps. Mempunyai standard theme.
 - <http://jquerymobile.com>

Aplikasi Mobile

- Cross Platform

- Ionic

- Open source SDK(software dev kit), performance near to native
 - Ready made native API (Application Programming Interface) e.g camera, phonebook, push notification
 - CSS, HTML5, Javascript, AngularJS

- Xamarin & Xamarin.Forms

- C Sharp
 - Shared UI backend code

Mobile Apps Summary

What is a Mobile Developer?

Mobile Web / Hybrid Dev

Native API to iOS (PhoneGap)	HTML5 JavaScript	Web View
Native API to Android (PhoneGap)	HTML5 JavaScript	Web View
Native API to Windows (PhoneGap)	HTML5 JavaScript	Web View

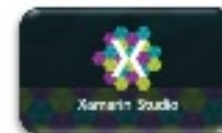


Native Mobile Platforms

iOS	- Objective-C - Xcode, AppCode
Android	- Java - Eclipse, IntelliJ
Windows	- C#, VB, F#, etc. - Visual Studio

Native Cross-Platform Dev

Xamarin .iOS (Mono)	- C# - Xamarin Studio
Xamarin .Android (Mono)	- C# - Xamarin Studio
Windows (.NET, WinRT)	- C#, VB, F#, etc. - Visual Studio



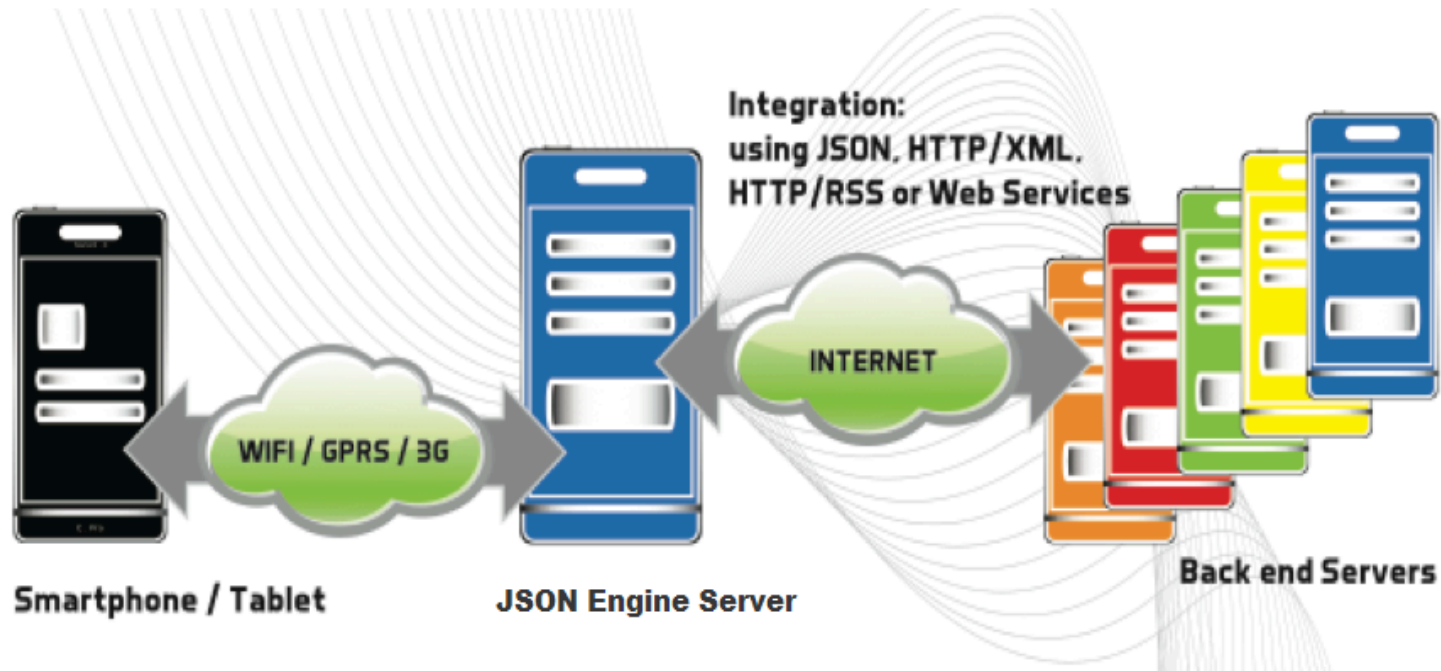
Mobile App



Architecture

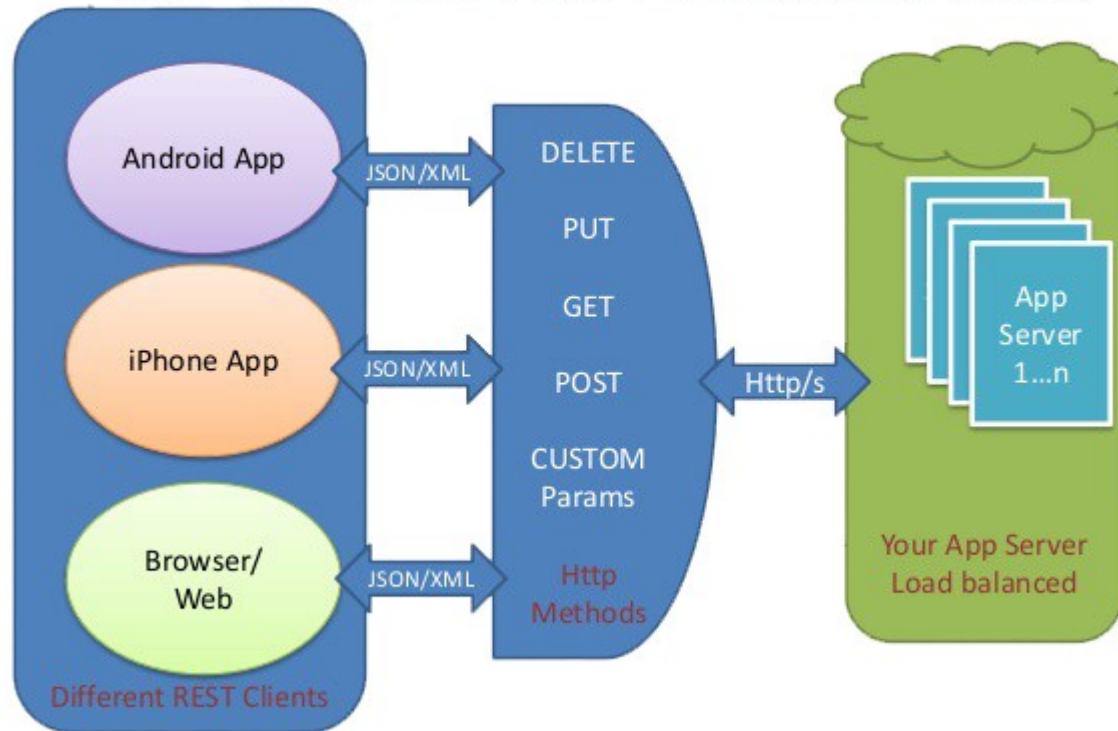
Static Data - Stored at JSON Engine Server

Dynamic Data - Direct acces from Back End Server

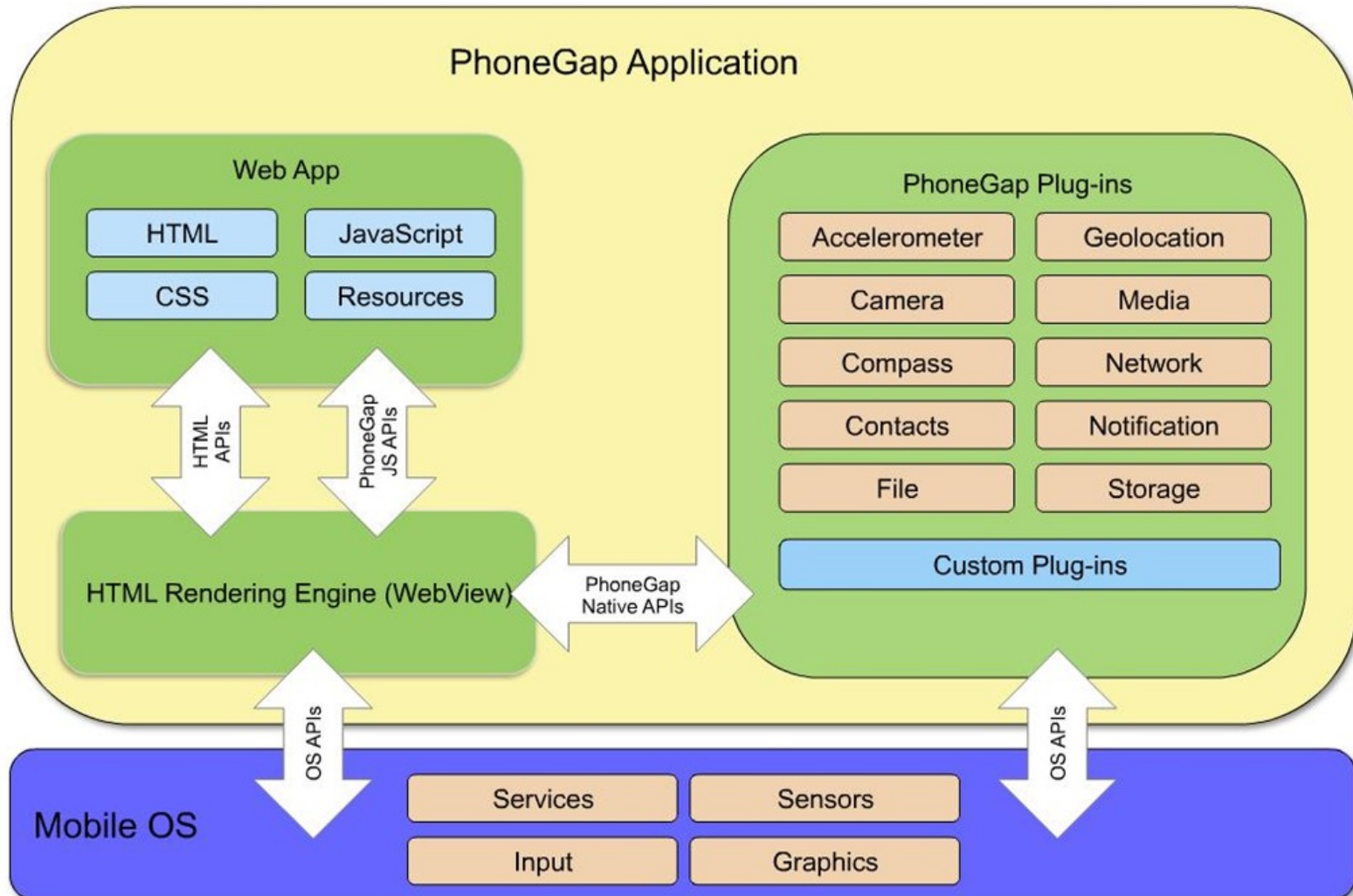


Mobile Service

REST API Architecture



PhoneGap Architecture



SMART CAMPUS



News



Events



Staff Directories



Locations

Info

FAQ

Exit

Top Stories



UTM, YPJ and PPNJ sign MoA to Enhance English in Johor

TANGKAK, 18 May 2017 - A Memorandum of Agreement (MoA) was signed between Universiti Teknologi Malaysia (UTM), Yayasan Pelajaran Johor (YPJ) and also the J...

Datetime : May 18, 2016



348 participants in 10th UTM Innovation Competition

JOHOR BAHRU, 10 May 2016 – The Student Innovation Centre of Universiti Teknologi Malaysia (CSIUTM) has organized the 10th Innovation Competition held at De...

Datetime : May 17, 2016



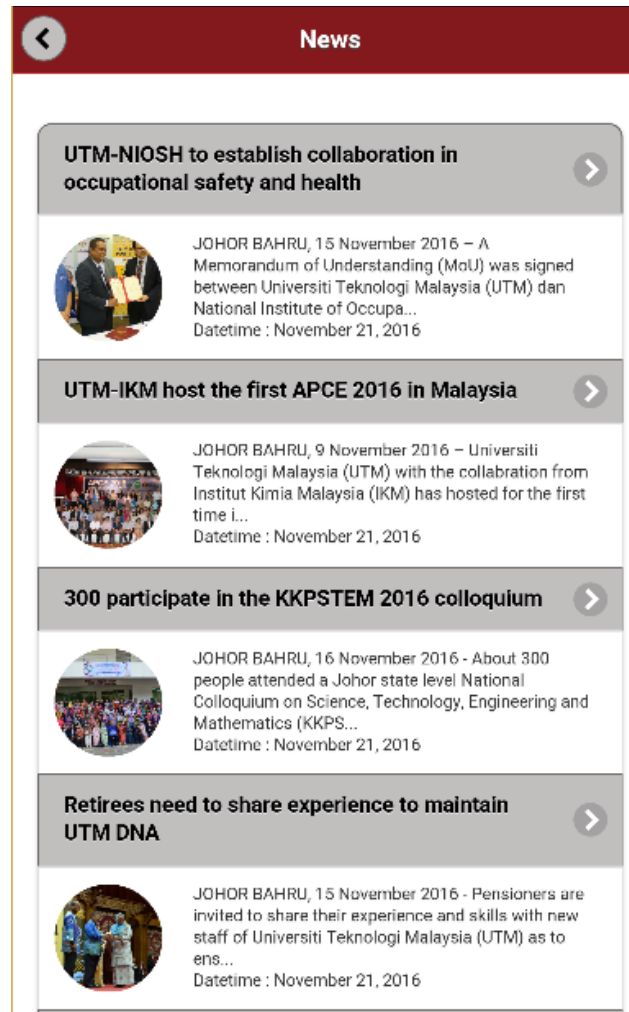
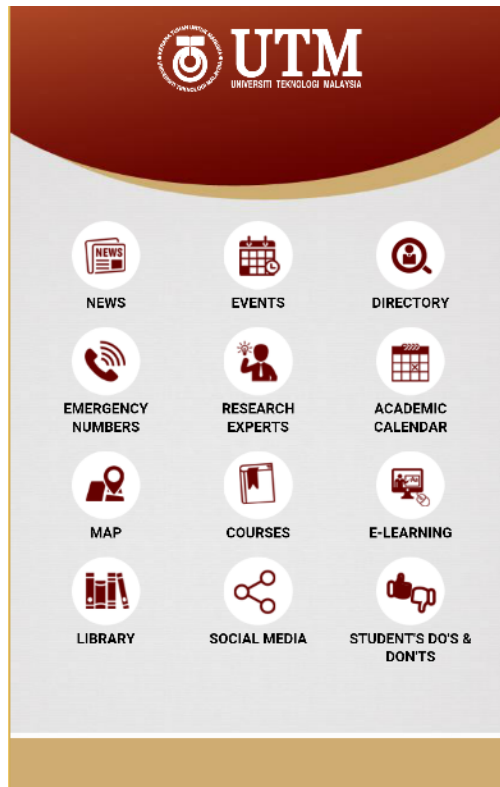
UTM awarded game-changing certification by the Energy Commission of Malaysia

The Energy Commission of Malaysia (Suruhanjaya Tenaga) has awarded the UTM Masters Energy Management Program (by taught course) the prestigious, game-chang...

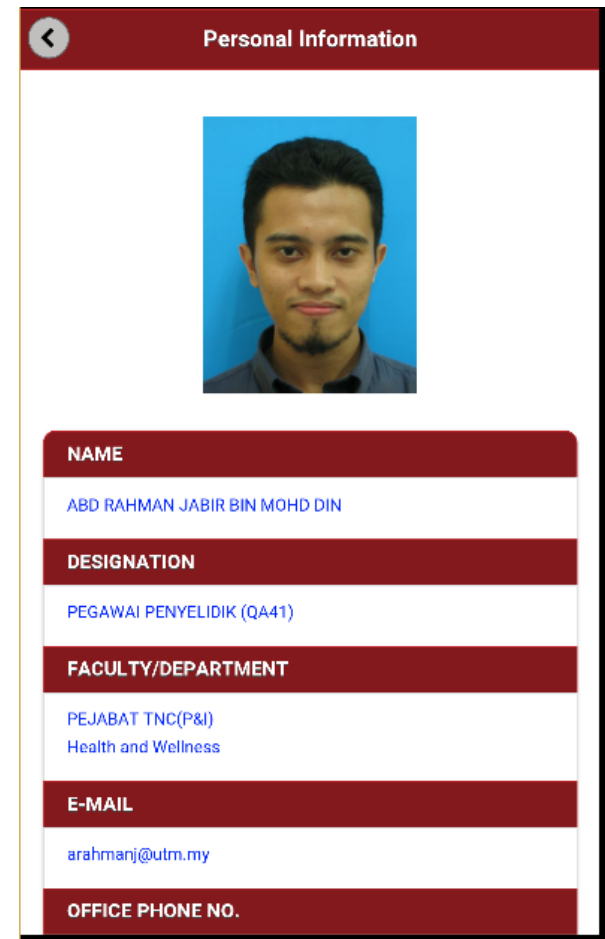
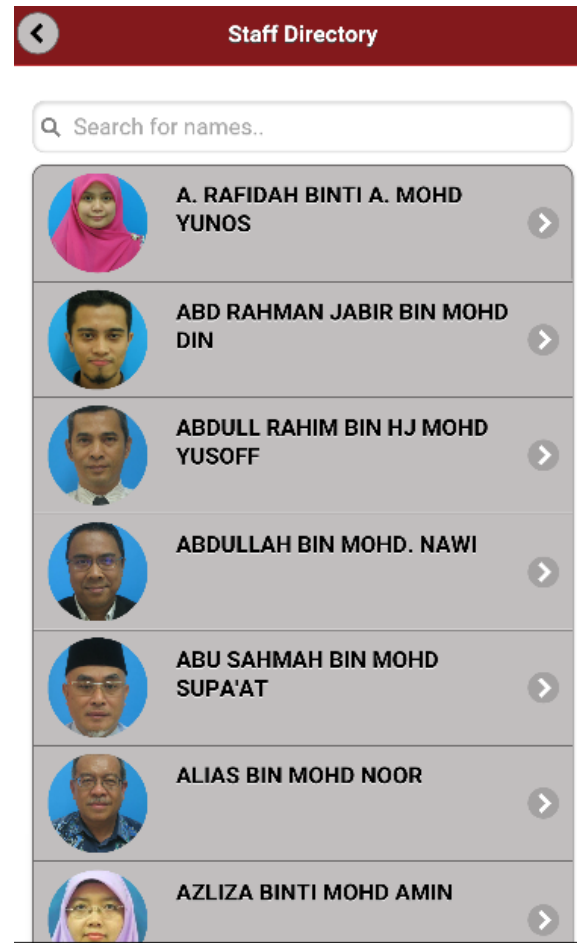
Datetime : May 10, 2016

Event Calender

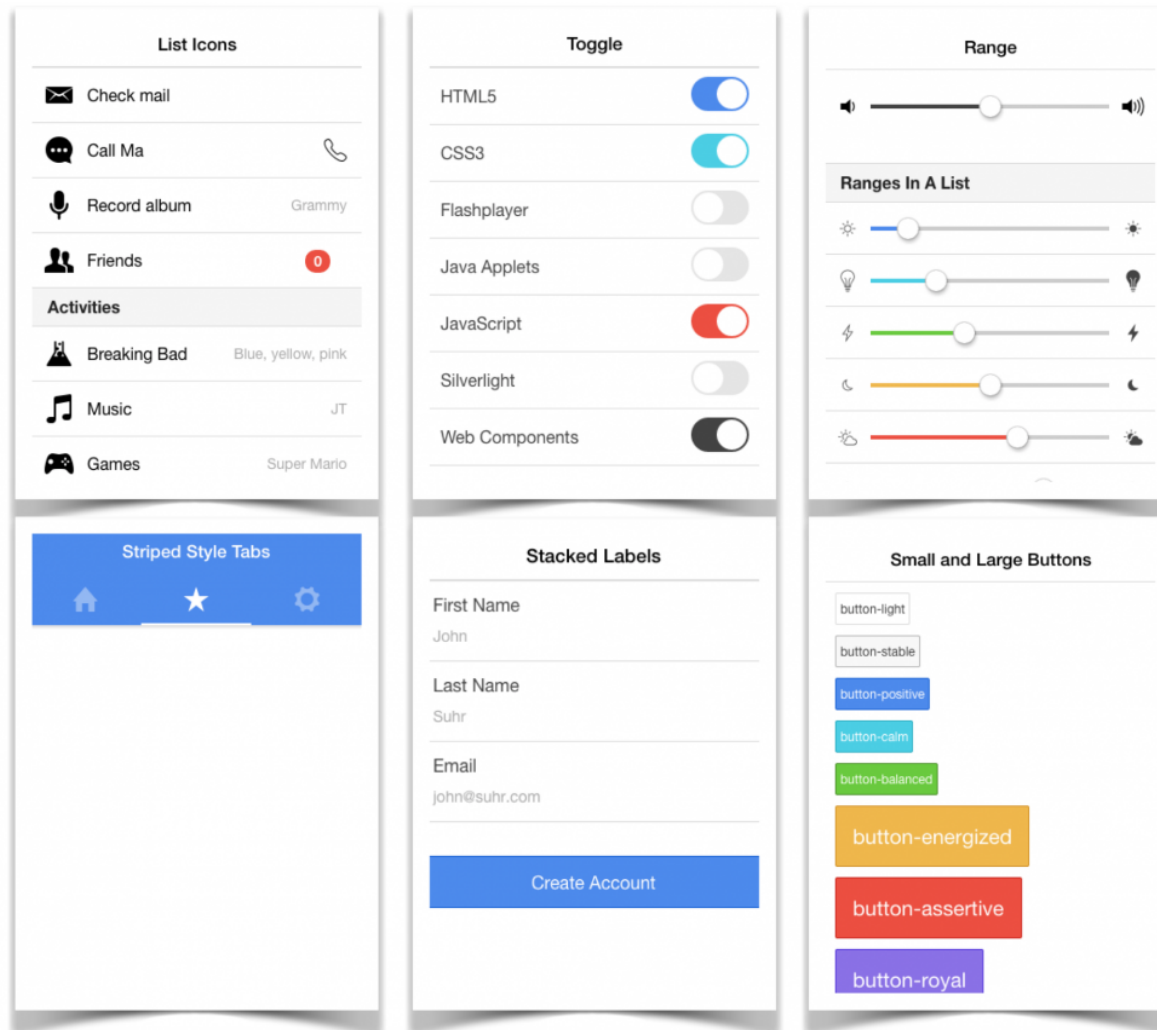
Upcoming Event	Current Event	Past Event
22 May Program iCare Peringkat Neg...  Title:Program iCare Peringkat Negeri Johor Liga Pengaturcaraan Robot UTM-KEJORA Start Date:2016-05-22 Start Time:8:00 am End Time:5:30 pm Location:Dewan Besar Kolej Profesional MARA Bandar Penawar	21 May Profession Fair FKE UTM 2016  Title:Profession Fair FKE UTM 2016 Start Date:2016-05-21 Start Time: End Time: Location:Padang Kawad UTMJB	22 May Kejohanan Golf Universiti Awa...  Title:Kejohanan Golf Universiti Awam Malaysia Kali ke-44 Start Date:2016-05-22 Start Time: End Time: Location:Palm Resort Golf & Country Club , 101 Palm Villa Golf & country Resort



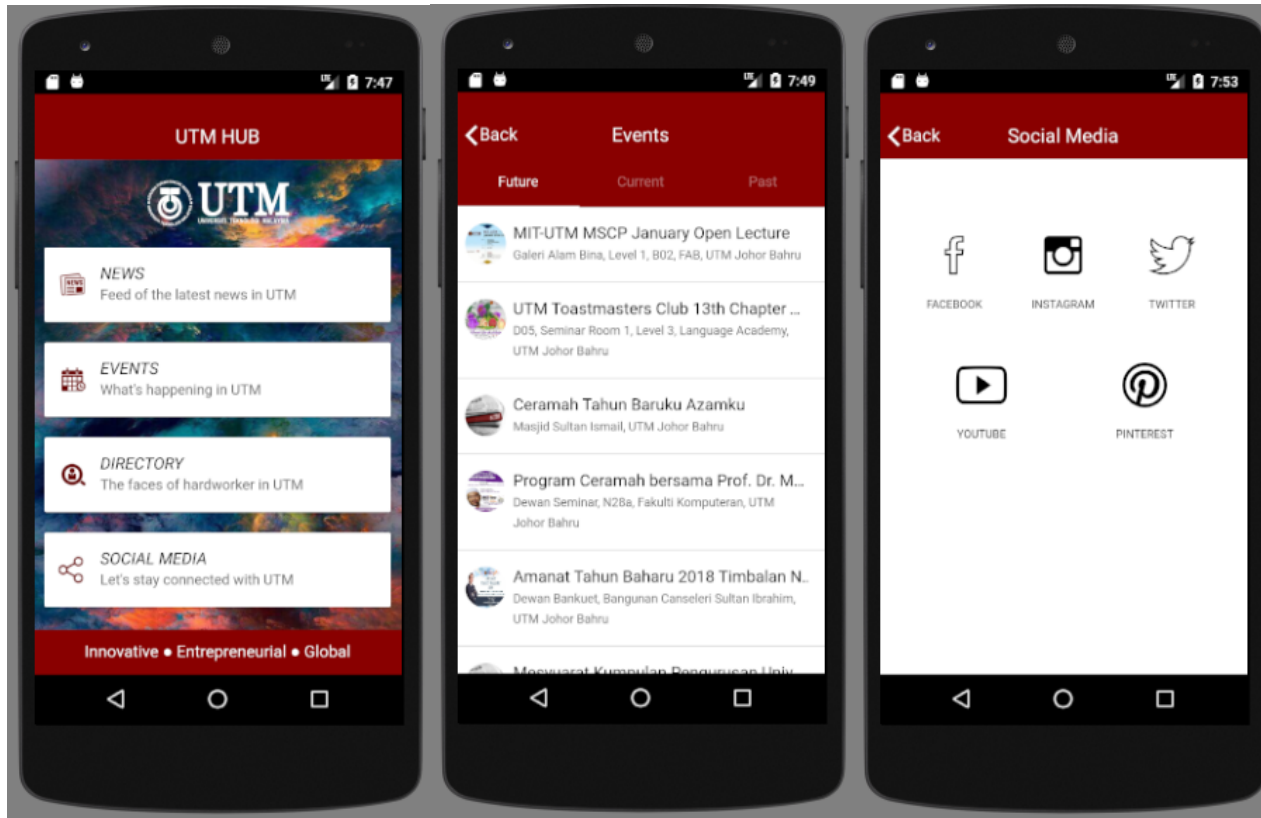




Ionic Component



Ionic Project

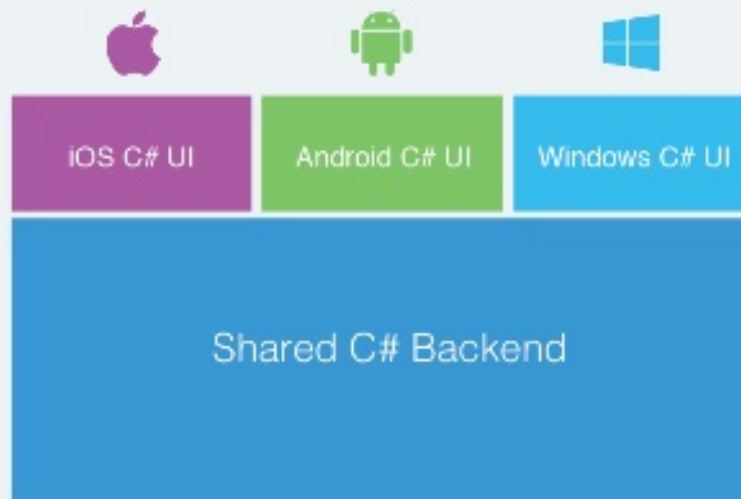


Xamarin

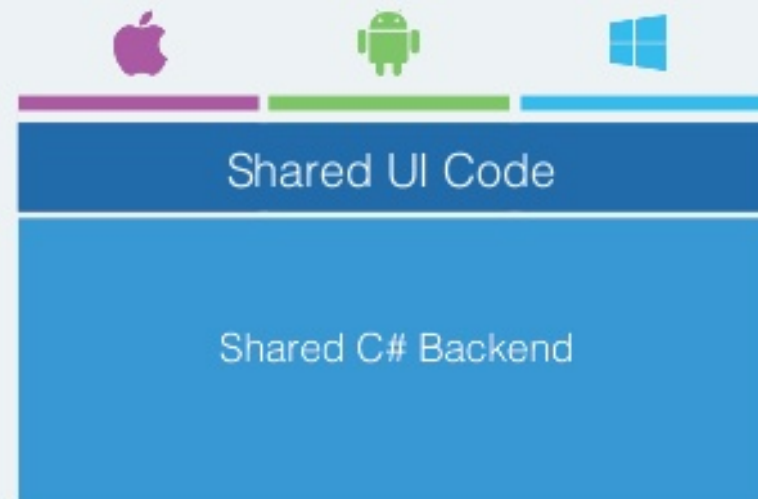
Xamarin + Xamarin.Forms



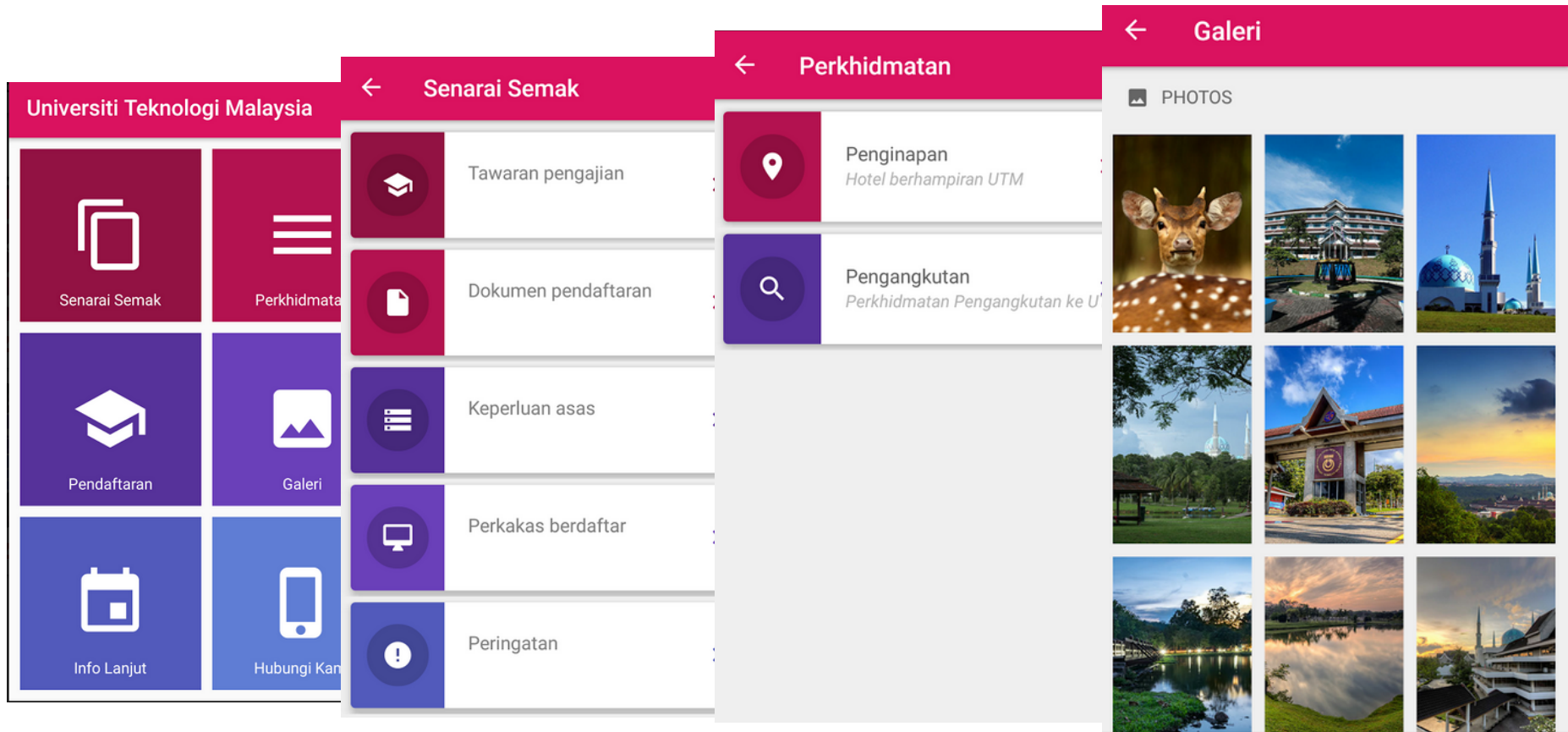
Traditional Xamarin approach



With Xamarin.Forms:
more code-sharing, native controls



GuideMe@UTM



Pembangunan Sistem Berasaskan Web

- Menggunakan framework asp.net
- Bahasa pengaturcaraan C Sharp
- Visual Studio 2017
- Pangkalan data Oracle
- Bootstrap template

Pembangunan Sistem

Sistem Pelekat Kenderaan

- Permohonan pelekat kenderaan staf dan pelajar.
- Menggantikan borang manual.

Sistem Caruman Zakat Staf

- Potongan zakat melalui gaji.
- Menggantikan borang manual.

Sistem Parcel Staf

- Pemilik sistem pendaftar UTMKL.
- Pemakluman parcel staf melalui emel.

Sekian, terima kasih