

With Wisdom  
We Explore



UTM  
Universiti Tun



# PERSIDANGAN PENTADBIRAN ICT UNIVERSITI 2019

## MyUTHM Mobile Apps: Keperluan dan Cabaran

Sesi Perkongsian Inisiatif '*Smart Campus*'  
Universiti Awam & Swasta



With Wisdom  
We Explore



# MyUTHM Mobile Apps: Keperluan dan Cabaran

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Ts. Muhamad Rais Bin Abd Halim  
Universiti Tun Hussein Onn Malaysia  
<https://community.uthm.edu.my/rais>



# Consultancy & Training

## 2019

Kursus Android Untuk Kumpulan Inovasi Majlis Permuafakatan Guru Pemulihan Khas P1NCH (M3P) Daerah Batu Pahat, KPM

Pembinaan Sistem Aplikasi Android Berkaitan Produk Inovasi Perancangan Kewangan Islam, (KPM), Politeknik METrO Johor Bahru

Kursus Pembangunan Mobile Api Menggunakan Codeigniter, UTHM

Kursus IONIC kepada Pelajar Fakulti Sains Komputer dan Teknologi Maklumat, UTHM

Kursus Mobile Apps Development, Anjuran Pusat Pembelajaran Atas Talian Tahap Global, UTHM



# Consultancy & Training

## 2018

Bengkel Technology Update: Mobile Apps, Hospital Sultan Ismail, Johor Bahru

Amalan Terbaik Pentadbiran ICT (MyEvent Management System, KPICT)

Kursus IONIC kepada Staf Fakulti Sains Komputer dan Teknologi Maklumat, UTHM

Kursus IONIC kepada Pelajar Fakulti Sains Komputer dan Teknologi Maklumat, UTHM

Kursus Pembangunan Aplikasi Telefon Pintar (Asas) Ionic, UTHM

Program Perkongsian Maklumat Bil 3/2018 – ‘Developing mobile hybrid apps with ionic & deploying apps to Appstore & Playstore’

Kursus"ANDROID APPLICATION DEVELOPMENT" Menggunakan App Inventor, UTHM

Program Perkongsian Maklumat Bil. 6/2018 - Pembangunan Android Apps menggunakan App Inventor & Pangkalan Data Firebase, UTHM

Perkongsian Ilmu Bil 9/2018 : Jana Pendapatan Dengan Pembangunan Permainan Android, UTHM

Android Application Development : MIT App Inventor, UTHM

# MyUTHM



2016  
Kampus Digital



2018  
MyUTHM (Staf)

Penambahbaikan  
berterusan



Februari 2017  
IDEA & Bengkel



2019  
MyUTHM  
(Pelajar)





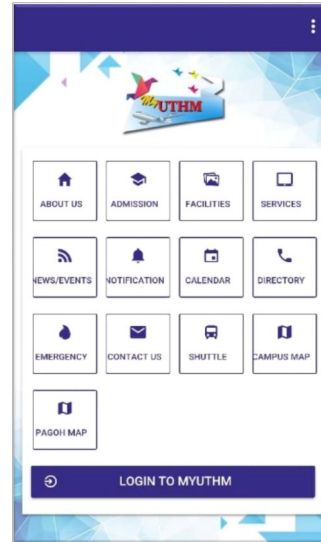
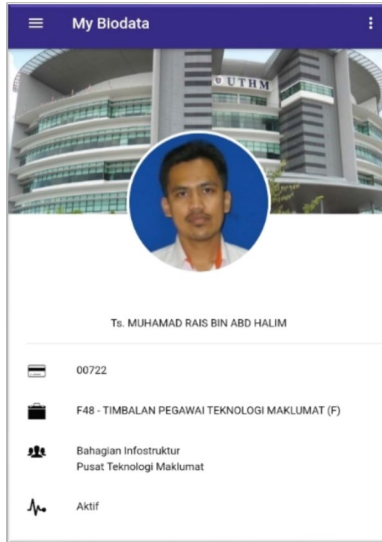
✉ UTHM Email username

🔒 Password

⤷ LOGIN

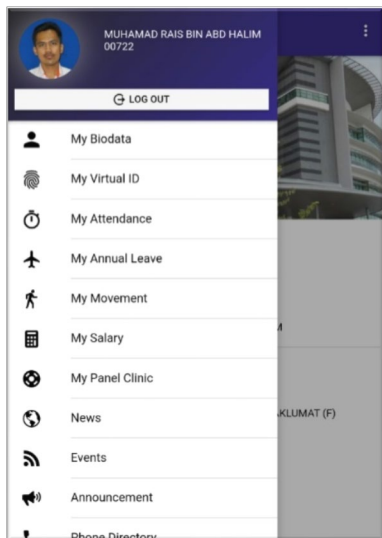
⤷ CONTINUE AS GUEST

# MyUTHM (Staf)



# MyUTHM (Staf)

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# MyUTHM (Staf)

- My Biodata
- My Virtual ID
- My Attendance
- My Annual Leave
- My Movement
- My Salary
- My Panel Clinic

- News
- Events
- Announcement
- Phone Directory
- Vehicle Search
- Main Campus Map
- Pagoh Campus Map







✉ UTHM Email username

🔒 Password

⤷ LOGIN

⤷ CONTINUE AS GUEST

# MyUTHM (Pelajar)

## Emergency Contacts

MALAYSIAN EMERGENCY RESPONSE SERVICES (MERS) 999  
999

BAHAGIAN KESELAMATAN UTHM (24 JAM)  
074537146

KLINIK KESIHATAN UNIVERSITI

## Academic Calendar

### UNDERGRADUATE

07/07/2019	Mesyuarat Senat
04/08/2019	Mesyuarat Senat
11/08/2019	Hari Raya Aidiladha
31/08/2019	Hari Kebangsaan
31/08/2019	Cuti Antara Semester - 1 Minggu
11/09/2019	Awal Muharram
19/09/2019	Pendaftaran Pelajar Baharu (Program Srajana Muda) Sesi 2019/2020
	Minggu Transformasi Mahasiswa - 1 Minggu
	Pendaftaran Kursus Semester 1 Sesi 2019/2020 (Pelajar Baharu)



LOG OUT



My Biodata



My E-Class/E-Events



My SMAP



HEP Announcement



HEP Services



HEP Activity Calendar



Campus Facilities



News

# MyUTHM (Pelajar)

# MyUTHM (Pelajar)

- My Biodata
  - My E-Class/E-Events
  - My SMAP
  - HEP Announcement
  - HEP Services
  - HEP Activity Calendar
  - Campus Facilities
- News
  - Events
  - Announcement
  - Phone Directory
  - Shuttle Bus Live Tracking
  - Main Campus Map
  - Pagoh Campus Map



  
ABOUT US

  
ADMISSION

  
FACILITIES

  
SERVICE

  
NEWS/EVENTS

  
NOTIFICATION

  
CALENDAR

  
DIRECTORY

  
EMERGENCY

  
CONTACT US

  
SHUTTLE

  
CAMPUS MAP

  
PAGOH MAP

LOGIN TO MYUTHM

# MyUTHM (Pelawat)



## MyUTHM (Pelawat)

- About Us
- Admission
- Campus Facilities
- Online Services
- News
- Events
- Announcement
- Phone Directory
- Contact Us
- Main Campus Map
- Pagoh Campus Map
- Login

# MyEvent (KPICT '18)



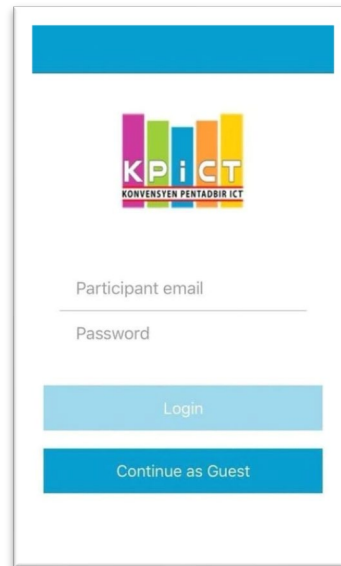
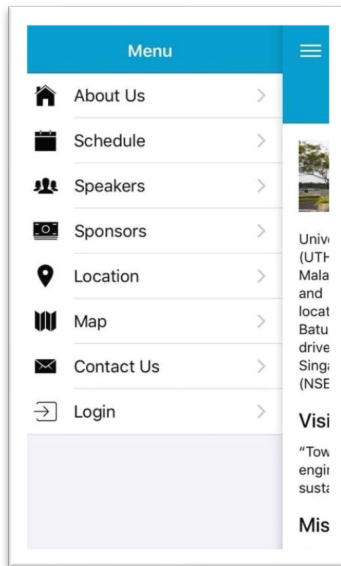
Participant email

Password

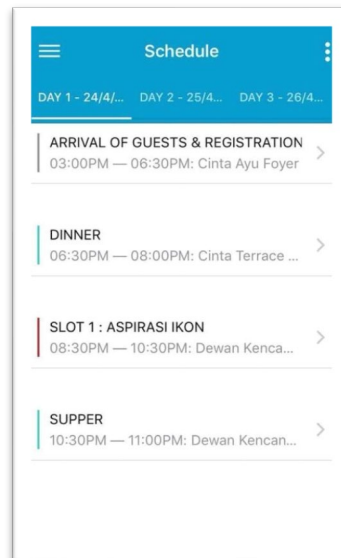
Login

Continue as Guest

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# MyEvent (KPICT'18)



# MyEvent Web (KPICT'18)

- Administration
  - User
  - Agency
  - Participants
  - Schedule
  - Speakers
  - Sponsors

- Event Activity
  - Lucky Draw
- Report
  - My Passport





UTHM CMS

You are logged in as  
ENCIK AZAMUDDIN BIN RASIDI

GENERAL

- Administration
- User
- Agency
- Participants
- Schedule
- Speakers
- Sponsors
- Event Activity
- Report

### Participants Listing Participants

#### Participants

List Participants

#	ID	NAME
1	180001	NORLEEN BINTI AZAM
2	180002	RUSLINA BINTI RUSM
3	180003	HISHAMUDDIN BIN MA
4	180004	MOHD NASIR BIN ABD
5	180005	IZWAN BIN NORZAM
6	180006	SHAHIDA BINTI AHMA
7	180007	HAJAH SABARIAH BIN

UTHM CMS

You are logged in as  
ENCIK AZAMUDDIN BIN RASIDI

GENERAL

- Administration
- Event Activity
- Report
- My Passport

### My Passport Booth Tour

#### Winner List

ID	NAME
180001	NORLEEN BINTI AZAM
180027	MAZLIFENDIRIZAN BIN
180002	RUSLINA BINTI RUSM
180054	NORZIHA BINTI AIRDZ

UTHM CMS

You are logged in as  
ENCIK AZAMUDDIN BIN RASIDI

GENERAL

- Administration
- Event Activity
- Lucky Draw
- Report

UTHM PERSIDANGAN PENTADBIRAN ICT UNIVERSITI 2019 powered by IDEC

## LUCKY DRAW

# KPICT

KONVENSYEN PENTADBIR ICT

## 2018

180015  
SYAMSUDIN MUDZAMIL

DRAW

TOTAL BOOTH	TOTAL POINTS	MAX_VISIT_TIME
14	100	16/04/2018 03:44:31 PM
14	100	16/04/2018 03:48:46 PM
7	60	16/04/2018 04:31:35 PM
5	25	16/04/2018 03:53:48 PM

# MyEvent Web (KPICT'18)

# Cabaran

Kewangan

Teknologi

Team

Pengetahuan  
& Skil

Pengguna

Infrastruktur

Kolaborasi  
Kod Sumber

Menerbitkan  
Apps

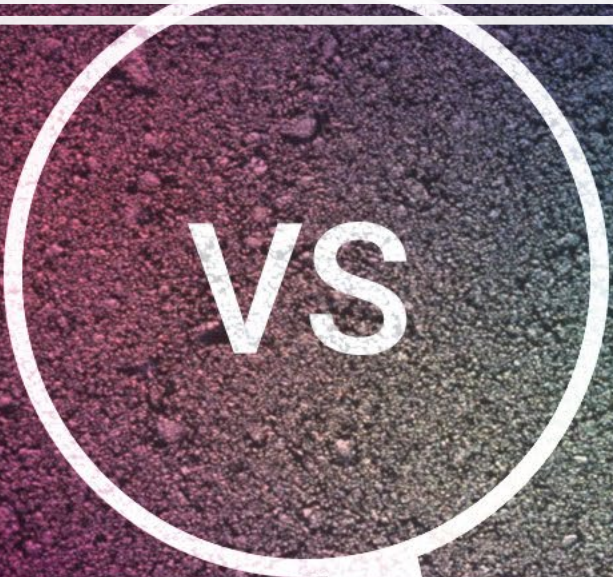


## Cabaran #1 : Kewangan

# Cabaran #2 : Teknologi



**Native**



**Hybrid**



# Native Apps vs Hybrid Apps




## Native Apps


- Mobile apps developed specifically for a mobile OS
- Developed using languages such as Objective-C/Swift (IOS) and Java (Android)

## Hybrid Apps


- Websites packaged into a native wrapper
- Developed using Hybrid Mobile Development Framework




Write once,  
run anywhere



Use the talent you  
already have



Deliver a great  
user experience  
across platforms



Build for  
the future

# Why Hybrid?

## Cabaran #3 : Team



# Cabaran #4 : Pengetahuan & Skil



*Knowledge*

**SKILLS**





## Cabaran #5 : Pengguna



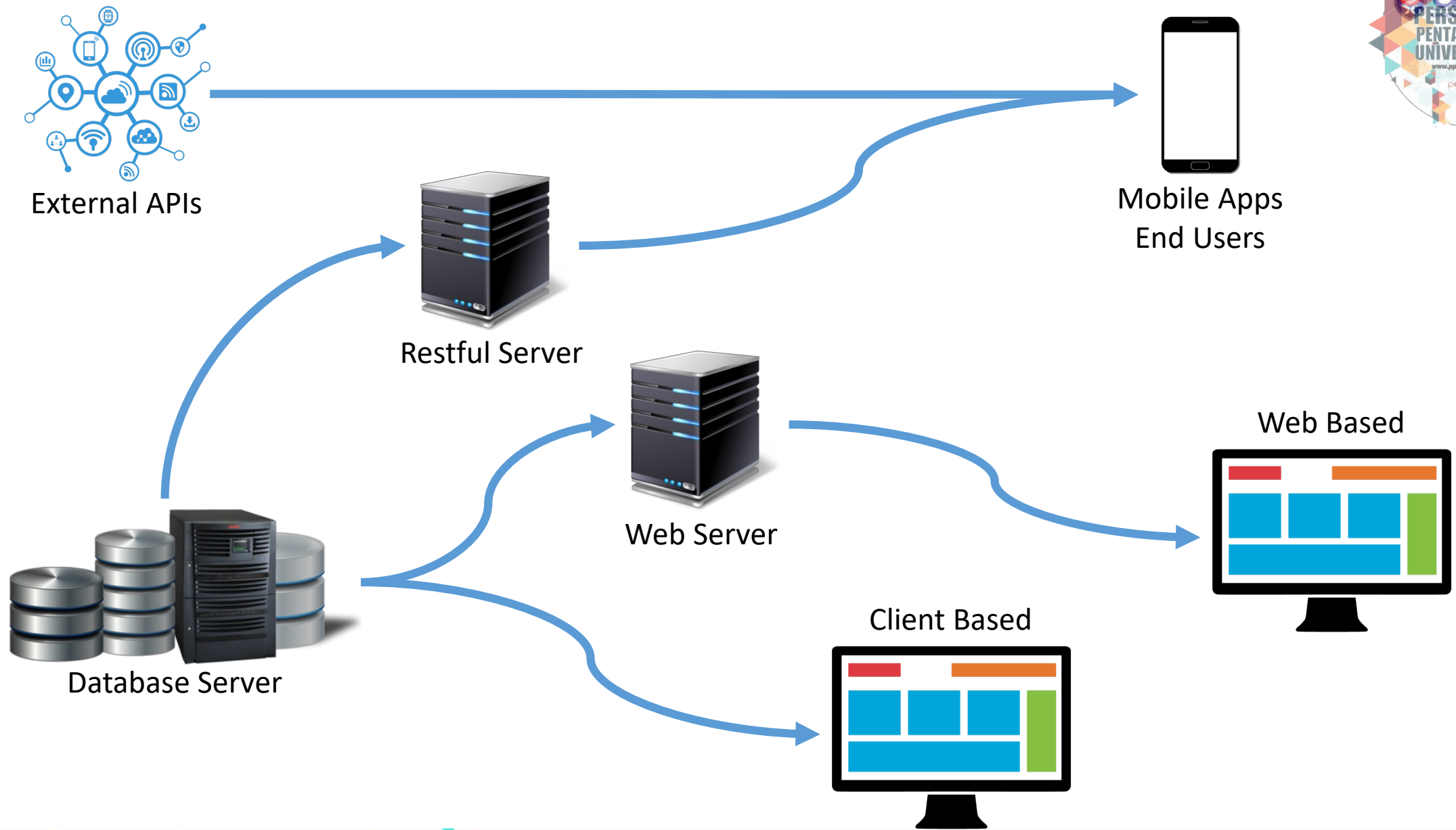
# People & Device





## Cabaran #6 : Infrastruktur

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External APIs

Restful Server

Web Server

Database Server

Mobile Apps  
End Users

Web Based

Client Based

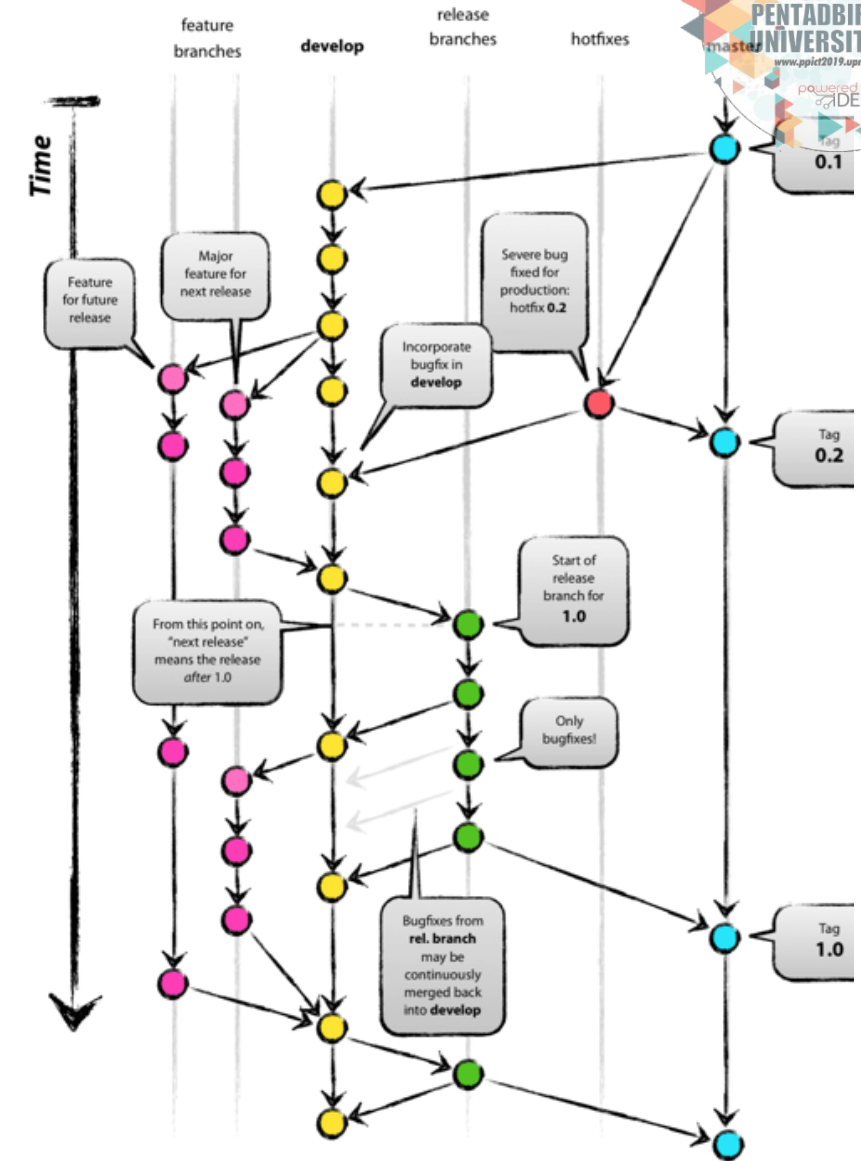


# Cabaran #7 : Kolaborasi Kod Sumber

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# Source Control using GIT





Publish

## Cabaran #8 : Menerbitkan Apps

# Deploying Apps to Google Playstore

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## Step #1

### Step #1

- Sign-up with Google Play Console

## Step #2

### Step #2

- Pay one-time fee of 25 USD

## Step #3




### Step #3


- Submit your app to Play Console



OMG! App is  
suspended  
by Google!

Notification from Google Play Inbox x

 **Google Play Support** <googleplay-developer-support+no-reply@google.com> 11/29/17 ☆  

to me, me 

Hi Developers at UNIVERSITI TUN HUSSEIN ONN MALAYSIA,

After review, MyUTHM, com.ionicframework.ionic2uthmapp542341, has been suspended and removed from Google Play as a policy strike because it violates the [impersonation policy](#).

**Next Steps**

1. Read through the [Impersonation](#) article for more details and examples of policy violations.
2. Make sure your app is compliant with the [Impersonation and Intellectual Property](#) policy and all other policies listed in the [Developer Program Policies](#). Remember additional enforcement could occur if there are further policy issues with your apps.
3. [Sign in to your Developer Console](#) and submit the policy compliant app using a new package name and a new app name.

**What if I have permission to use the content?**

[Contact our support team](#) to provide a justification for its use. Justification may include providing proof that you are authorized to use the content in your app or some other legal justification.

Additional suspensions of any nature may result in the termination of your developer account, and investigation and possible termination of related Google accounts. If your account is terminated, payments will cease and Google may recover the proceeds of any past sales and/or the cost of any associated fees (such as chargebacks and transaction fees) from you.

If you've reviewed the policy and feel this suspension may have been in error, please reach out to our [policy support team](#). One of my colleagues will get back to you within 2 business days.

Regards,

The Google Play Review Team

It's OK. Just  
send appeal  
letter to Google



**Pusat Teknologi Maklumat**

Tel : 07-4537246 / 7243 Faks : 07-4536929

Ruj. Kami (Our Ref.) : UTHM/PTM.500-18/7 Jilid 2(87)  
Tarikh : 30 November, 2017

To Whom It May Concern  
Google LLC

Sir,

**CONFIRMATION OF OFFICIAL EMAIL, PROPERTY RIGHTS OWNERSHIP AND APPLICATION FOR GOOGLE PLAY CONSOLE REINSTATEMENT**

For your information, Universiti Tun Hussein Onn Malaysia (UTHM) are one of the local Public Universities in Malaysia and Information Technology Centre are tasked to initiate a mobile apps project for campus community use.

This letter is to confirm that [it.uthm@gmail.com](mailto:it.uthm@gmail.com) is the official email for Universiti Tun Hussein Onn Malaysia (UTHM) Information Technology Department. The email is also used for submitting and managing mobile apps deployment, including to Google Play Console.

It is also confirmed that we did not violate any intellectual property rights and did not impersonate any individual or organization. We officially represents UTHM and have the rights to use any submitted files, icons or images to Google Play Console.

Therefore, we request your help to reinstate our access to Google Play Console so that we can continue our mobile apps project deployment.

As an additional information, we have also had deployed an app called MyUTHM under Government of Malaysia official mobile apps initiatives (<https://play.google.com/store/apps/details?id=my.gov.onegov.appstore.myuthm.keystore>). Please advise whether we need to change the icon, app name or any other information in order for you to reinstate our access.

Please email me ([arshad@uthm.edu.my](mailto:arshad@uthm.edu.my)) or my lead developer ([azamudin@uthm.edu.my](mailto:azamudin@uthm.edu.my)) for any questions regarding this letter.



## Step #1 – Enroll with Apple Developer Program

<https://developer.apple.com>

Choose either or both:

- Apple Developer Program (USD 99 yearly)
- Apple Enterprise Developer Program (USD 299 yearly)



## Step #2 – Pay annual fee of USD 99 or USD 299



## Step #3 – Submit your app to Apple

# Deploying Apps to Apple Appstore

	iOS Developer Program	iOS Developer Enterprise Program
<b>Cost</b>	\$99 per year	\$299 per year
<b>Features</b>	<ul style="list-style-type: none"> <li>• Distribute your app via the App Store.</li> <li>• Test on iPad, iPhone and iPod touch.</li> </ul>	<ul style="list-style-type: none"> <li>• Distribute proprietary apps directly to employees hosted by you.</li> <li>• Test on iPad, iPhone and iPod touch.</li> <li>• Receive code level technical support.</li> </ul>
<b>Distribution</b>	Once your app has been built and tested, it is submitted to the App Store for review and acceptance. Review time typically takes ten days.	Once your app has been built and tested, you can launch it immediately.
<b>Further information</b>	<a href="#">Learn more</a>	<a href="#">Learn more</a>

# Standard Program vs Enterprise Program



# Perancangan Masa Hadapan

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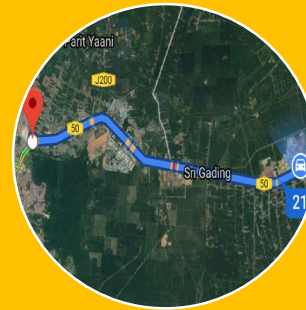
# Next MyUTHM



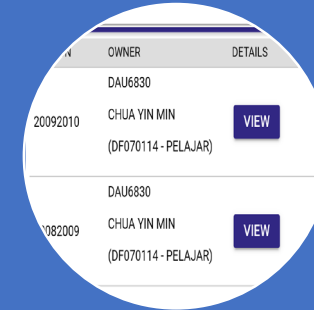
Status  
Kursus, Cuti  
& Pergerakan



Push  
Notification



Tunjuk Arah  
Klinik Panel



Perincian  
Carian  
Kenderaan



# PROGRESSIVE WEB APPS:

FUTURE OF MOBILE WEB BROWSING



application

interface

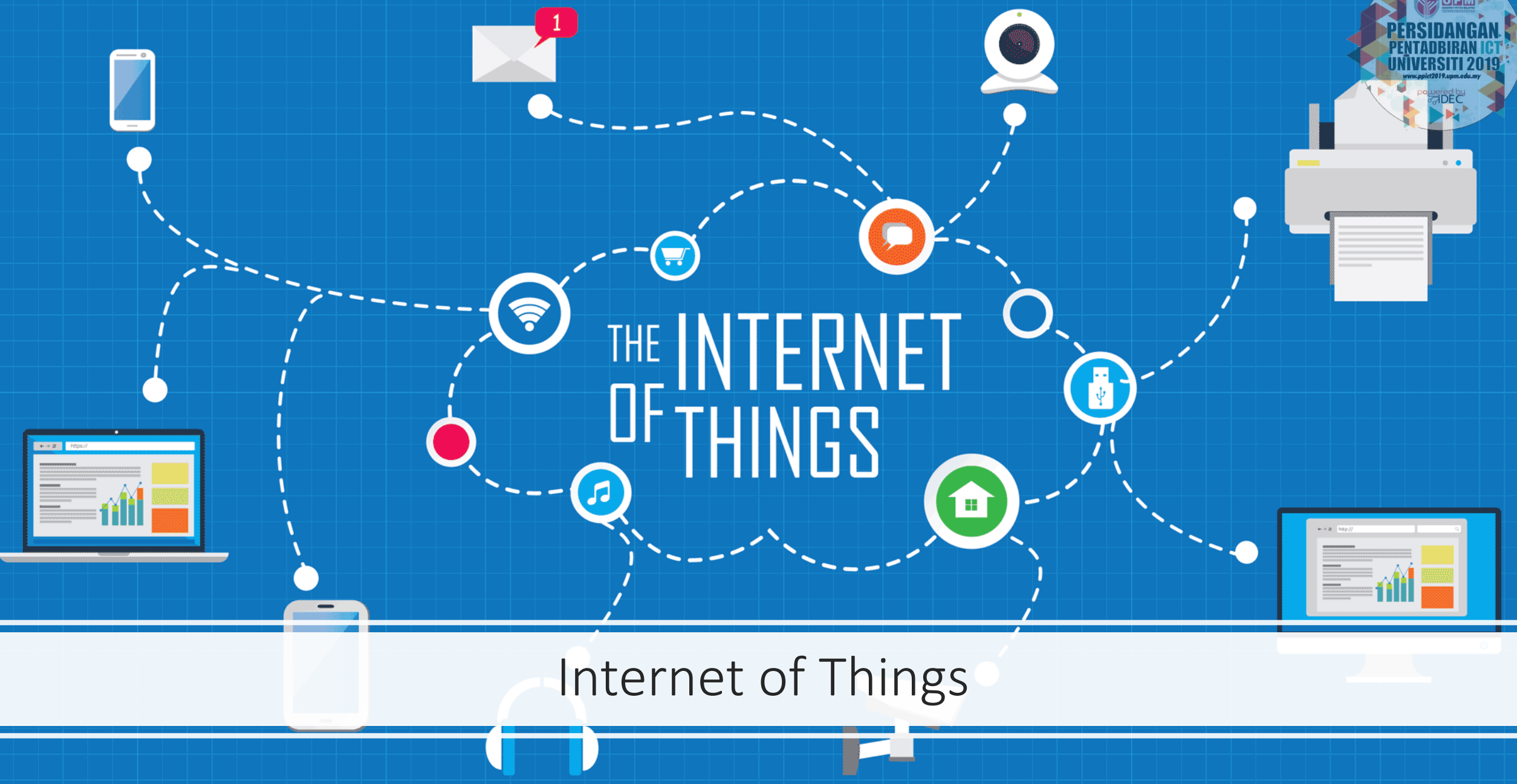
A P I

programming

Pengurusan *API*







Internet of Things

# Terima Kasih

## Rujukan

- <http://www.ionicframework.com>
- <http://forum.ionicframework.com>
- <http://www.github.com>
- <https://about.gitlab.com>
- <https://developer.apple.com/programs>
- <https://developer.android.com/docs>

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