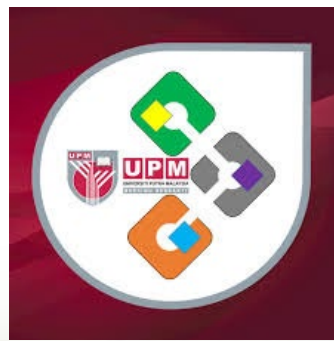


# PERSIDANGAN PENTADBIRAN ICT UNIVERSITI 2019

MEMPERKASA KAMPUS PINTAR

31 Julai - 2 Ogos 2019 | Hotel Marriott Putrajaya

# PutraVID



## Smart Campus Sharing Session



# UPM Student Card



**14K**  
**SmartCard**  
**a year**





## Student & Staff Virtual Identification

PutraVID is a virtual identification for UPM staff and students that runs on smartphone, be it an Android or iPhone Mobile Phone. Each user will have a unique personal QR code that stores profile information and can only be used by the PutraVID scanner only.

Make it easy for staff or students to sign into UPM Application securely with QR code.

Log in with your existing UPM-ID User ID and Password to enjoy mobile experience with PutraVID. Login is made easy with just your phone fingerprint authentication applicable for supported device only.

# PutraVID Journey

PERSIDANGAN  
PENTADBIRAN ICA  
UNIVERSITI 2019

powered by  
IDEAS

PutraVID

3  
SSO



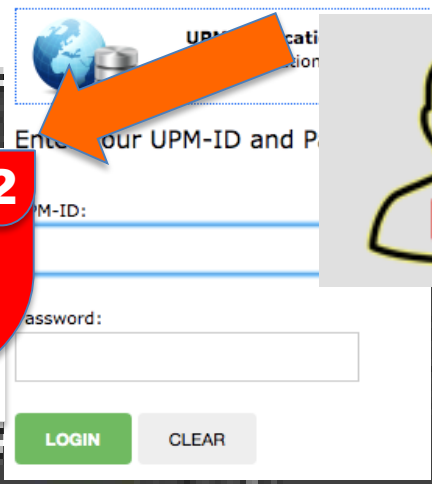
2  
SID

A screenshot of the UPM Application login page. It includes a header with the UPM logo and "UPM Application UPM application". Below the header, it says "Enter your UPM-ID and Password". There are input fields for "UPM-ID:" and "Password:". At the bottom, there are "LOGIN" and "CLEAR" buttons. To the right of the form is a grey box with a person icon and the text "Login UPM-ID".

1  
ID

UPM-ID

# PutraVID Journey



**ID**

**UPM : ID SYSTEM**

**UPM ID**



**Technology?**

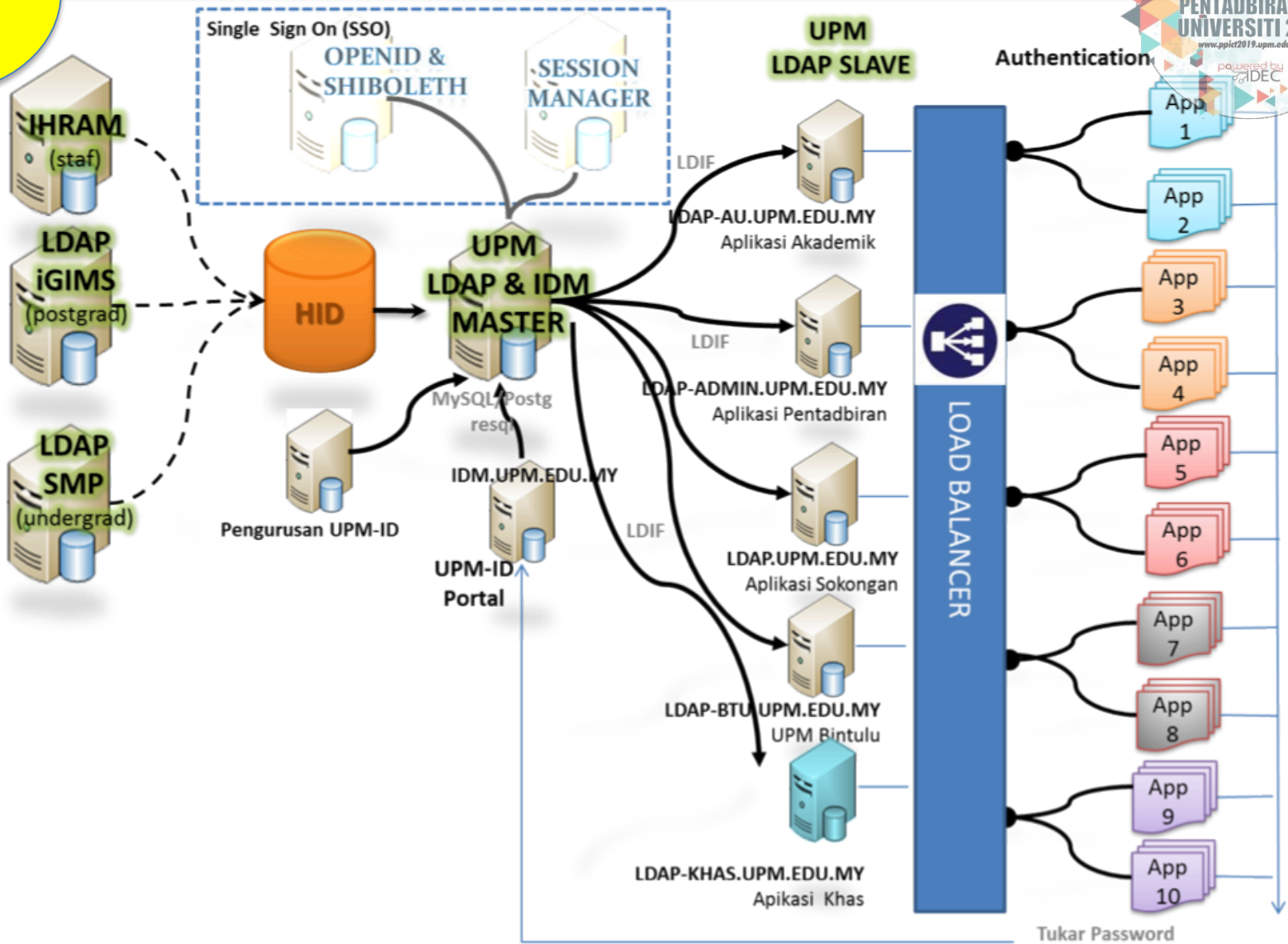
# OpenLDAP:

Complete guide to install & configure  
LDAP on CentOS/RHEL



ID

# UPM-ID Conceptual Design



**SID**



## Migration Logo

*Sila login menggunakan UPMID*



**UPMID** Sign in with UPM-ID





**SID**

# Single-ID : UPM-ID Login Page



**UPM-ID**



**UPM Application**  
UPM application.

Enter your UPM-ID and Password

UPM-ID:

Password:

LOGIN

CLEAR

#### First Time Login

Complete your **UPM-ID** registration.

[UPM Student Registration](#) | [UPM Staff Registration](#)

#### Forgot Password?

Forgotten your password?

[Click here for UPM Student](#) | [Click here for UPM Staff](#)

#### ICT Users Guide And Policy

[Security Guidelines for Information and Communication Technology \(GPKTMK\)](#)

[Guidelines for Internet Access Universiti Putra Malaysia](#)

#### Support

[Self Help FAQ \(Malay\)](#)

[Self Help FAQ \(English\)](#)

#### Contact Us

Inquiry regarding **PutraBLAST** please contact:

Tel. No.: 03-9769 6136

(Open weekdays except for public holidays/weekend from 9.00 am until 12.30 pm, continue at 2.00 pm)



# Single-ID : Application Login Pages

**SID**

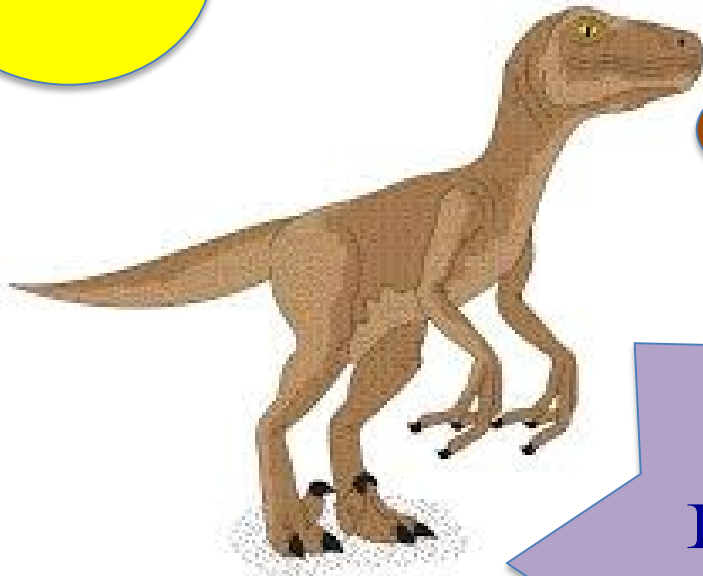


PEJABAT PENDAFTAR  
Bangunan Pentadbiran, Universiti Putra Malaysia,  
43400 UPM Serdang, Selangor Darul Ehsan.  
Tel: 0389471006 | Faks: 0389426468  
Emel: pendaftar@upm.edu.my

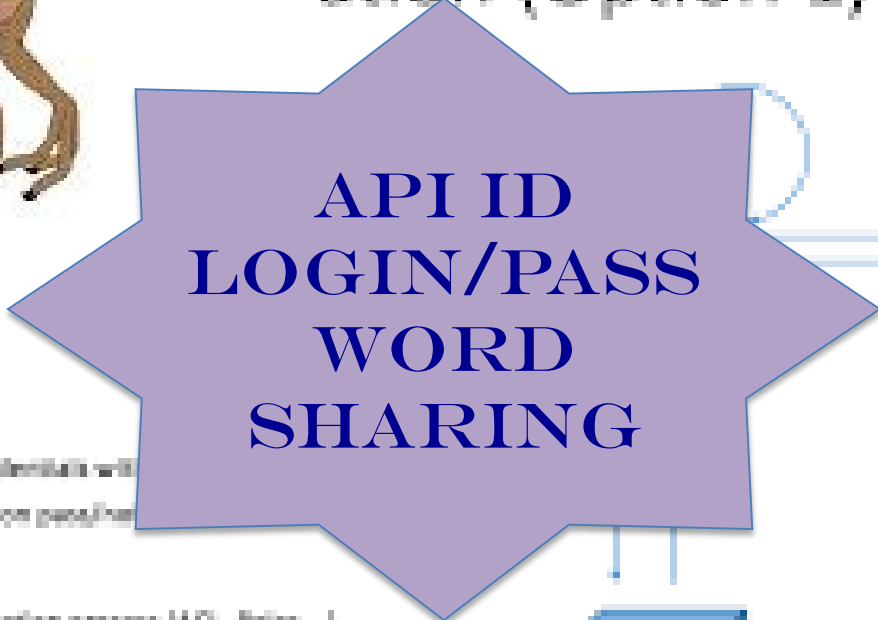


**SID**

# Single-ID : API Strategic



**Application**  
Authentication (Option 1)



1. Login request
2. Check LDAP authentication credentials with
3. LDAP/AD response authentication successful
  - If not pass go to 6
  - If pass go to 4
4. Get required data for authentication process (AD, Roles ...)
5. Response with required data
6. Response to client
  - If not pass, login failed
  - If pass, login success

# PutraVID Journey



3  
**SSO**



PutraVID

1  
**ID**



2  
**SID**

UPM Application  
UPM application

Enter your UPM-ID and Password

UPM-ID:

Password:



**SSO**

# SingleSignOn : UPM Portal



📶 🔊 🔌 4G+ 86% 9:27 pm

🏠 portal.upm.edu.my/v1/ ⓘ



**UPM**  
UNIVERSITI PUTRA MALAYSIA  
BERILMU BERBAKTI

**PORTAL** <sup>v.1</sup>

**PUTRA ● UPM**



PUTRA PORTAL



User Guide

SSO

# SingleSignOn : UPM Portal



Main Page

portal.upm.edu.my/v1/i 86% 9:27 pm

portal.upm.edu.my/v1/i

MOHD FAIZAL BIN DAUD | LOGOUT

- Perakam Waktu Online
- ePKP - Sistem Permohonan Khidmat Pembangunan
- SPIOT - Sistem Perkhidmatan ICT
- PutraVERIFY - UPM Online Verification
- PutraVID - UPM Online Identification
- eCuti - Sistem Permohonan Cuti Atas Talian
- SISMAN - Sistem Ilmu Sumber Manusia
- e-LPPT - Penilaian Prestasi P&P
- SPLN - Sistem Permohonan Keluar Negara
- PORTAL FEEDBACK
- e-Slip - Sistem Slip & Penyata Tahunan
- e-iso - Sistem Pengurusan Kualiti

NON SSO

BULETIN



# SingleSignOn : UPM Portal

**SSO**



**Main  
Page**



**Non  
SSO**

**Bulletin**

**Email**

**Putra  
Apps**

**SSO**

# SingleSignOn : UPM Portal

**Putra Apps**



eSenat



Sistem Mesyuarat Senat UPM

Sistem Pemilihan Ahli Senat

ePencen  
Sistem Pengurusan Persaraan

Academic (4)

**PUTRA CBE**

Putra Outcome Based Education Reporting System

**PUTRA @ARNING HUB**

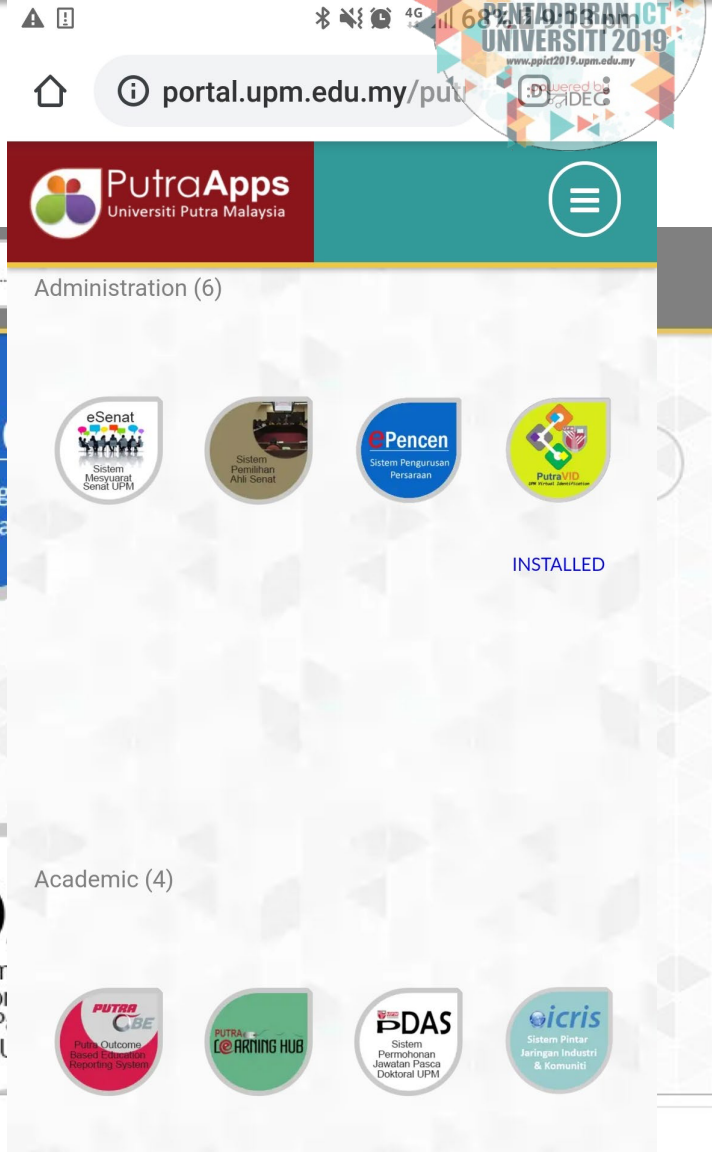
**PD**

Sistem Permohonan Jawatan Pasca Doktorat UPM

Academic (4)



portal.upm.edu.my/putraApps/index.php?id=33&do=reviews#reviews





# SingleSignOn : UPM Portal

**SSO**

## Aplikasi UPM (Non SSO UPM-ID)











(Senarai sistem yang belum di integrasi dengan SSO UPM-ID, untuk memas

**Non  
SSO**

**Old  
Application**



### PENGURUSAN (15)

-  [e-Claim System](#)
-  [Fixed Assets Management System \(FAMS\)](#)
-  [Standard Accounting for Government Agencies \(SAGA\)](#)
-  [Osh Online](#)
-  [Sistem Pendaftaran Online Pusat Islam](#)
-  [eGL](#)
-  [Agribio Resources Management System \(ARMS\)](#)
-  [Agriculture Conservatory Park \(ACP\)](#)
-  [Sistem OPS Sah](#)
-  [Sistem Pengurus Latihan \(SPL\)](#)
-  [Sistem Pengurusan Perubatan - Klinik Panel \(SPPKP\)](#)
-  [Sistem Permohonan Cuti Belajar](#)
-  [eZakat - Sistem Zakat Pelajar](#)



# PutraVID Journey



**SSO** <sup>3</sup>



**PutraVID**

**SID** <sup>2</sup>

A login form titled "UPM Application" with the subtitle "UPM application". It includes a globe icon and a database icon. The form asks to "Enter your UPM-ID and Password" and has input fields for "UPM-ID:" and "Password:". There are "LOGIN" and "CLEAR" buttons at the bottom.

**ID** <sup>1</sup>



# PutraVID : 3 Infostructure



UPM-ID



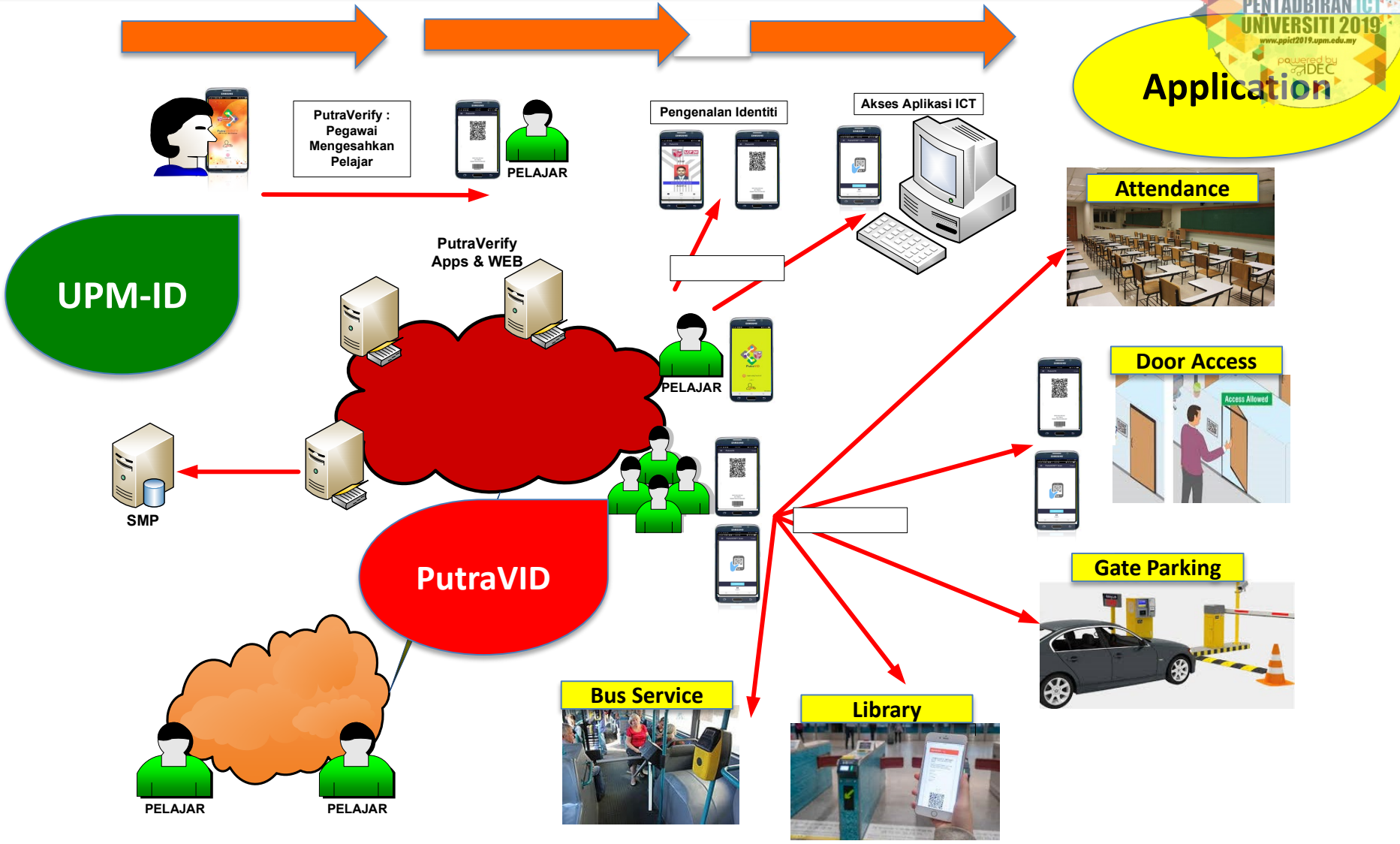
PutraVID



Application



# PutraVID Conceptual Design



# PutraVID : 2 Application (Mobile Apps)



# PutraVID

PutraVID



# PutraVID : Virtual ID

PutraVID



Putra@VID G Logout

STAF

MOHD FAIZAL BIN DAUD

A01306

Verify

Putra@VID G Logout

MOHD FAIZAL BIN DAUD  
691117065103  
PEGAWAI TEKNOLOGI MAKLUMAT

3000009518

Verify

# PutraVID : Features

PutraVID



The screenshot displays the PutraVID mobile application interface. At the top, the status bar shows 4G+ connectivity, 74% battery, and 9:22 pm. The app header includes a hamburger menu icon, the text 'Putra®VID', and a 'Logout' link. A dark sidebar menu is open, listing the following options: Home, QR Code Login, iCOME, Print Card, QRcode Change, Fingerprint Activation, Setting, and About. The main content area features the UPM logo and the text 'STAF' above a profile card for MOHD FAIZAL BIN DAUD (ID: A01306). At the bottom, there is a 'Verify' button with a QR code icon and navigation arrows. A 'LOGOUT' button is also visible at the bottom left of the app area.



# PutraVID : Features

PutraVID



Home

The screenshot displays the PutraVID mobile application interface. At the top, the status bar shows 4G+ connectivity, 74% battery, and 9:22 pm. The app header includes a hamburger menu icon, the text 'Putra®VID', and a 'Logout' link. A dark blue 'Menu' sidebar is open on the left, listing the following options: Home, QR Code Login, iCOME, Print Card, QRcode Change, Fingerprint Activation, Setting, and About. The main content area features the UPM logo and the text 'STAF' above a profile card for MOHD FAIZAL BIN DAUD (ID: A01306). At the bottom, there is a 'Verify' button with a barcode icon and navigation arrows. A 'LOGOUT' button is also visible at the bottom left of the app screen.

# PutraVID : Features



PutraVID

QRCode Login

The screenshot displays the PutraVID mobile application interface. At the top, the status bar shows 4G+ connectivity, 74% battery, and 9:22 pm. The app header includes a hamburger menu icon, the text 'Putra®VID', and a 'Logout' link. A dark blue 'Menu' overlay is visible on the left, listing the following options: Home, QR Code Login, iCOME, Print Card, QRcode Change, Fingerprint Activation, Setting, and About. The main content area features the UPM logo and the text 'STAF' above a profile card for MOHD FAIZAL BIN DAUD (ID: A01306). At the bottom, there is a 'Verify' button with a QR code icon and navigation arrows. A 'LOGOUT' button is located at the bottom left of the menu overlay.

# PutraVID : Features



**PutraVID**

**iCOME**

The screenshot displays the PutraVID mobile application interface. At the top, the status bar shows 4G+ connectivity, 74% battery, and 9:22 pm. The app header includes a hamburger menu icon, the text 'Putra®VID', and a 'Logout' link. A 'Menu' drawer is open on the left, listing the following options: Home, QR Code Login, iCOME, Print Card, QRcode Change, Fingerprint Activation, Setting, and About. The main content area features the UPM logo and the text 'STAF' above a profile card for MOHD FAIZAL BIN DAUD (ID: A01306). At the bottom, there is a 'Verify' button with a QR code icon and navigation arrows. A 'LOGOUT' button is also visible at the bottom left of the app screen.

# PutraVID : Features

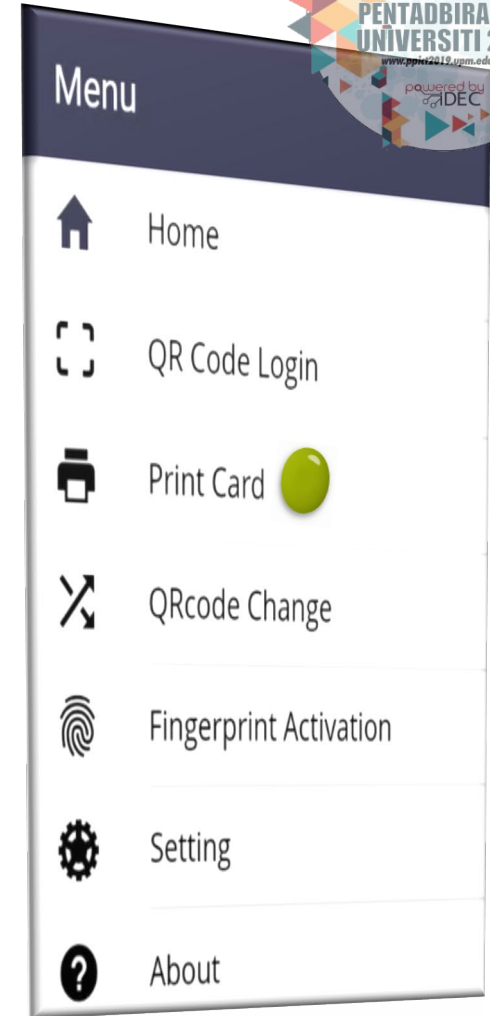
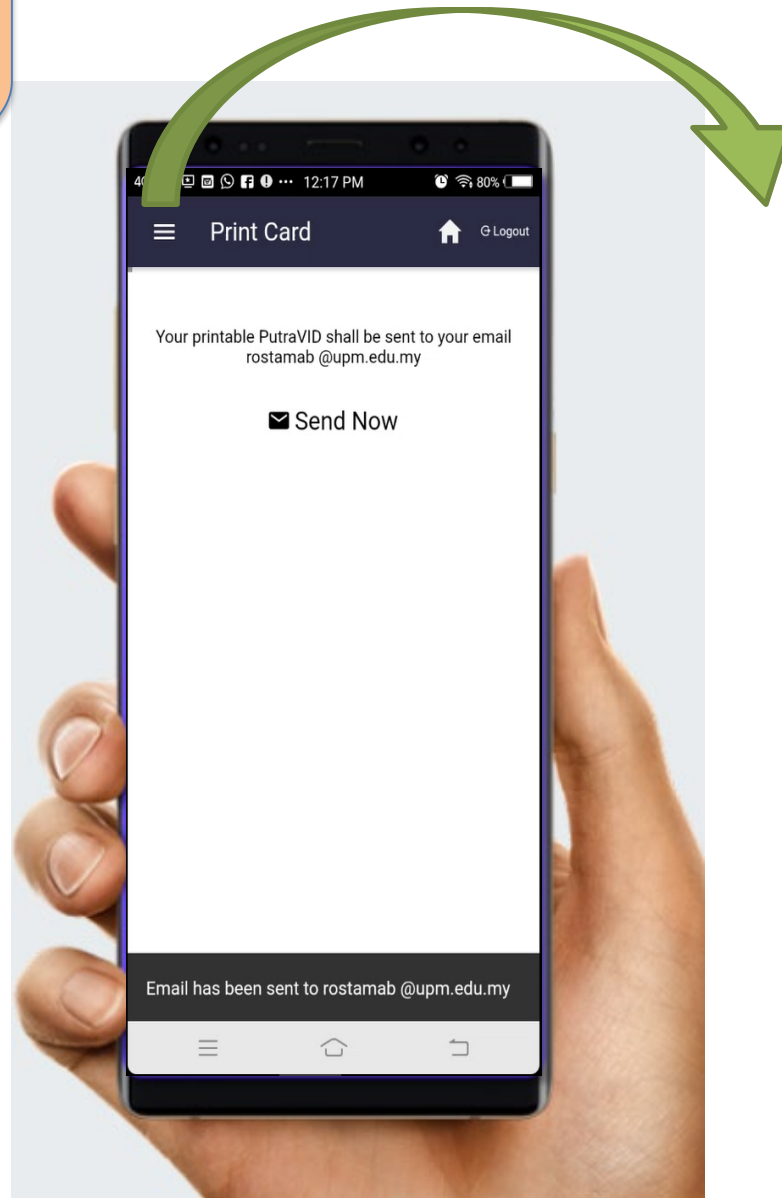
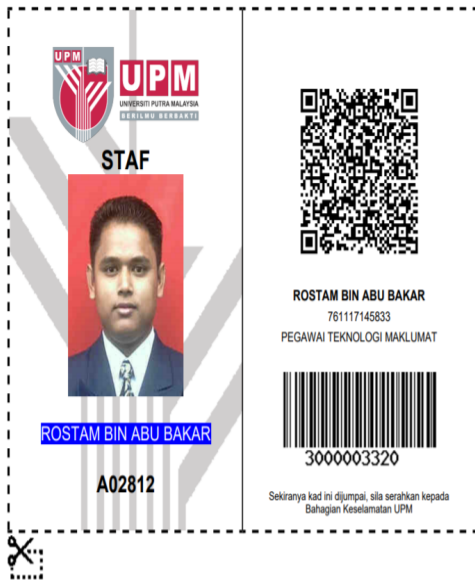


PutraVID

Print Card

The screenshot displays the PutraVID mobile application interface. At the top, the status bar shows 4G+ connectivity, 74% battery, and 9:22 pm. The app header includes a hamburger menu icon, the text 'Putra®VID', and a 'Logout' link. A dark blue 'Menu' overlay is visible on the left, listing the following options: Home, QR Code Login, iCOME, Print Card, QRcode Change, Fingerprint Activation, Setting, and About. The main content area shows the UPM logo and the text 'STAF' above a photo of a man. Below the photo, a blue bar contains the name 'MOHD FAIZAL BIN DAUD' and the ID number 'A01306'. At the bottom, there is a 'Verify' button with a QR code icon and navigation arrows.

# Print Card



# PutraVID : Features



**PutraVID**

**QRCode Change**

The screenshot displays the PutraVID mobile application interface. At the top, the status bar shows 4G+ connectivity, 74% battery, and 9:22 pm. The app header includes a hamburger menu icon, the text 'Putra®VID', and a 'Logout' link. A dark blue 'Menu' overlay is visible on the left side, listing the following options: Home, QR Code Login, iCOME, Print Card, QRcode Change, Fingerprint Activation, Setting, and About. The main content area features the UPM logo and the text 'STAF' above a profile card for MOHD FAIZAL BIN DAUD with ID A01306. At the bottom, there is a 'Verify' button with a QR code icon and navigation arrows. A 'LOGOUT' button is located at the bottom left of the menu overlay.

# PutraVID : Future

PutraVID



Putra®VID

Logout

Menu

- Home
- QR Code Login
- iCOME
- Print Card
- QRcode Change
- Fingerprint Activation
- Setting
- About

UPM UNIVERSITI PUTRA MALAYSIA BERILMU BERBAKTI

STAF

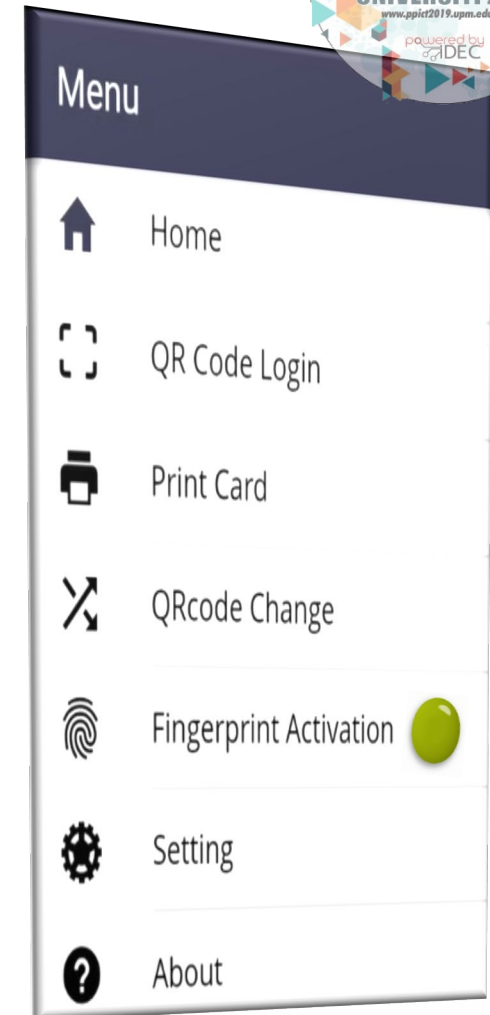
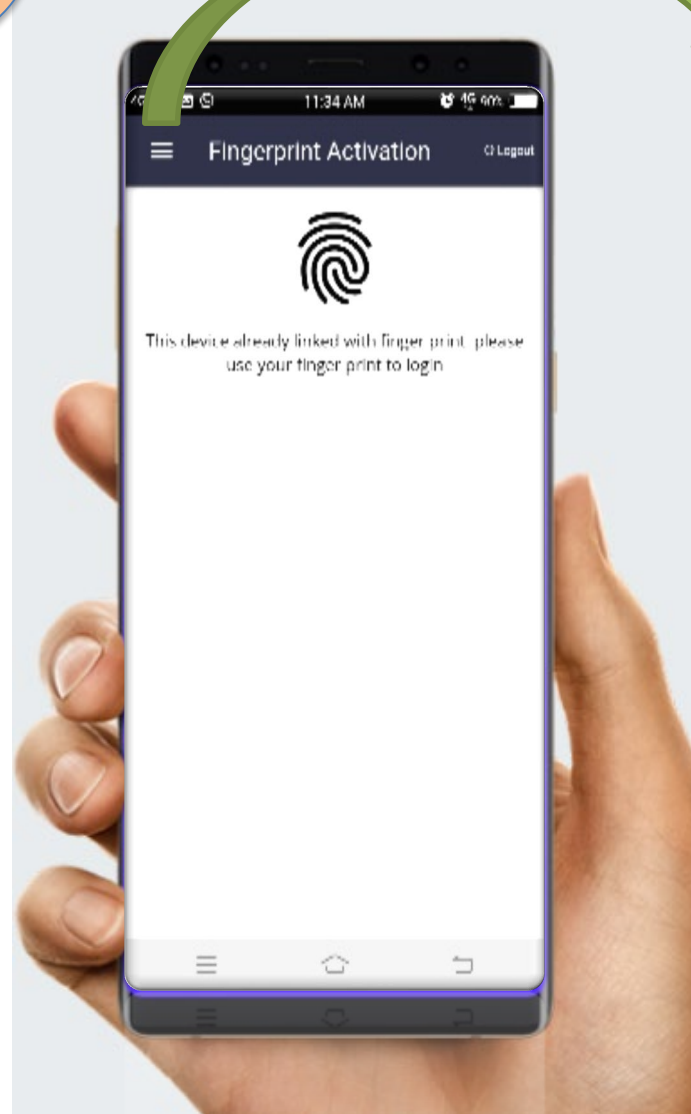
MOHD FAIZAL BIN DAUD

A01306

Verify

Fingerprint Activation

# Fingerprint Activation





# PutraVID : Features

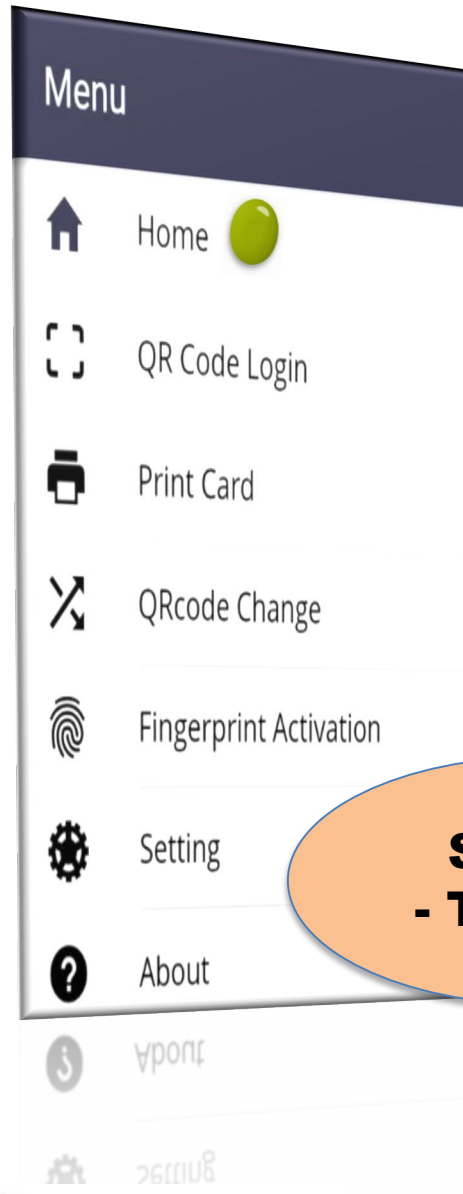


PutraVID

The screenshot displays the PutraVID mobile application interface. At the top, the status bar shows 4G+ connectivity, 74% battery, and 9:22 pm. The app header includes a hamburger menu icon, the text 'Putra®VID', and a 'Logout' link. A dark blue 'Menu' sidebar is open on the left, listing the following options: Home, QR Code Login, iCOME, Print Card, QRcode Change, Fingerprint Activation, Setting, and About. The main content area shows the UPM logo and the text 'STAF' above a profile card for MOHD FAIZAL BIN DAUD (ID: A01306). At the bottom, there is a 'Verify' button with a barcode icon and navigation arrows. A 'LOGOUT' button is located at the bottom left of the app screen.

Setting

# PutraVID Features



**Setting  
- TimeOut**

# PutraVID : Features

PutraVID



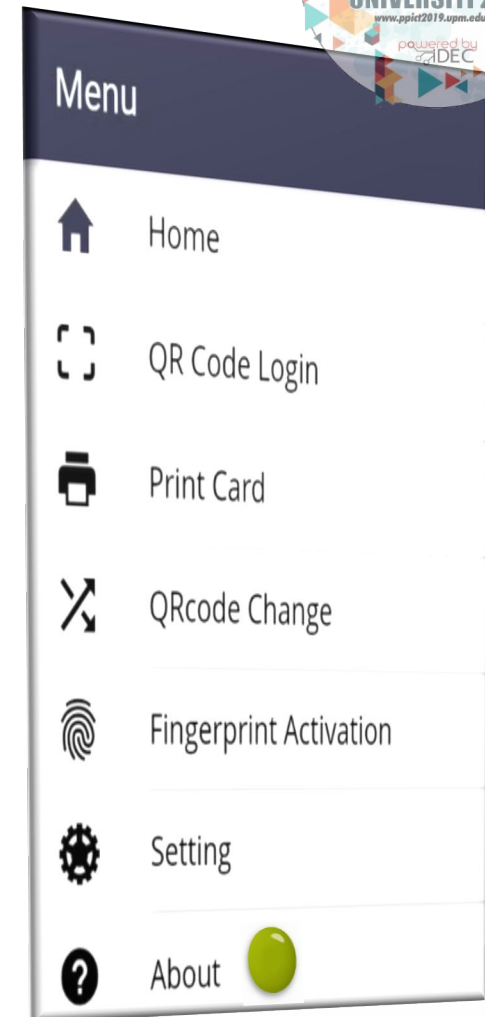
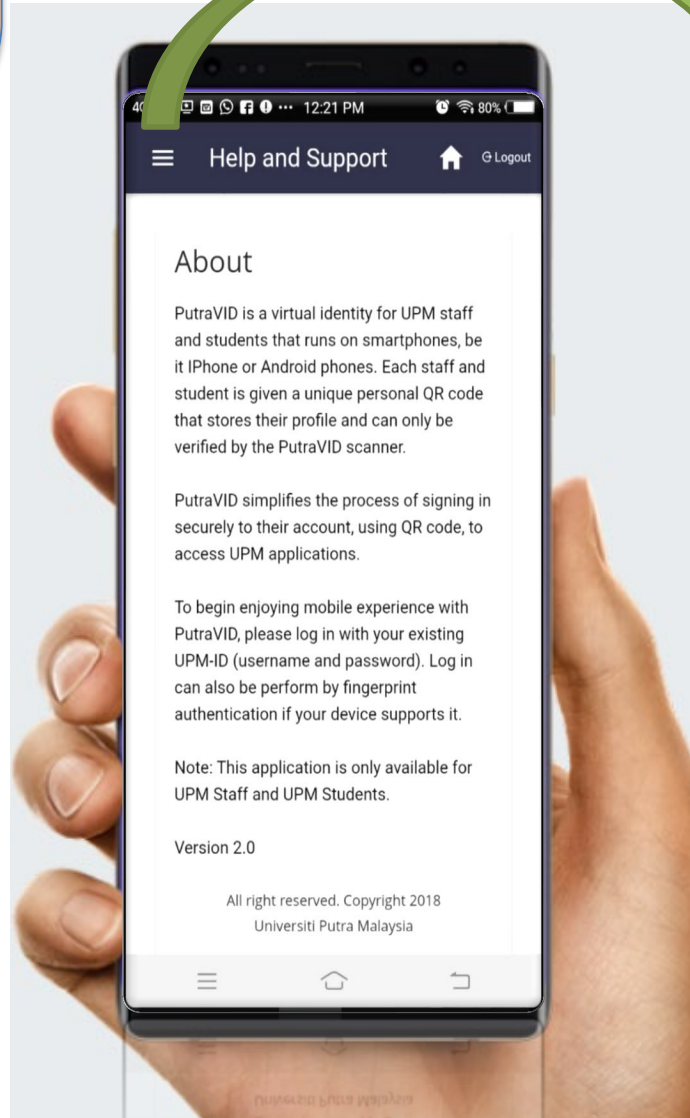
The screenshot displays the PutraVID mobile application interface. At the top, the status bar shows signal strength, 4G+ connectivity, 74% battery, and the time 9:22 pm. The app header includes a hamburger menu icon, the text 'Putra®VID', and a 'Logout' button. A dark blue 'Menu' sidebar is open on the left, listing the following options: Home, QR Code Login, iCOME, Print Card, QRcode Change, Fingerprint Activation, Setting, and About. The main content area shows the UPM logo and the text 'STAF' above a profile card for MOHD FAIZAL BIN DAUD with ID A01306. At the bottom, there is a 'Verify' button with a barcode icon and navigation arrows.

About


LOGOUT

Verify

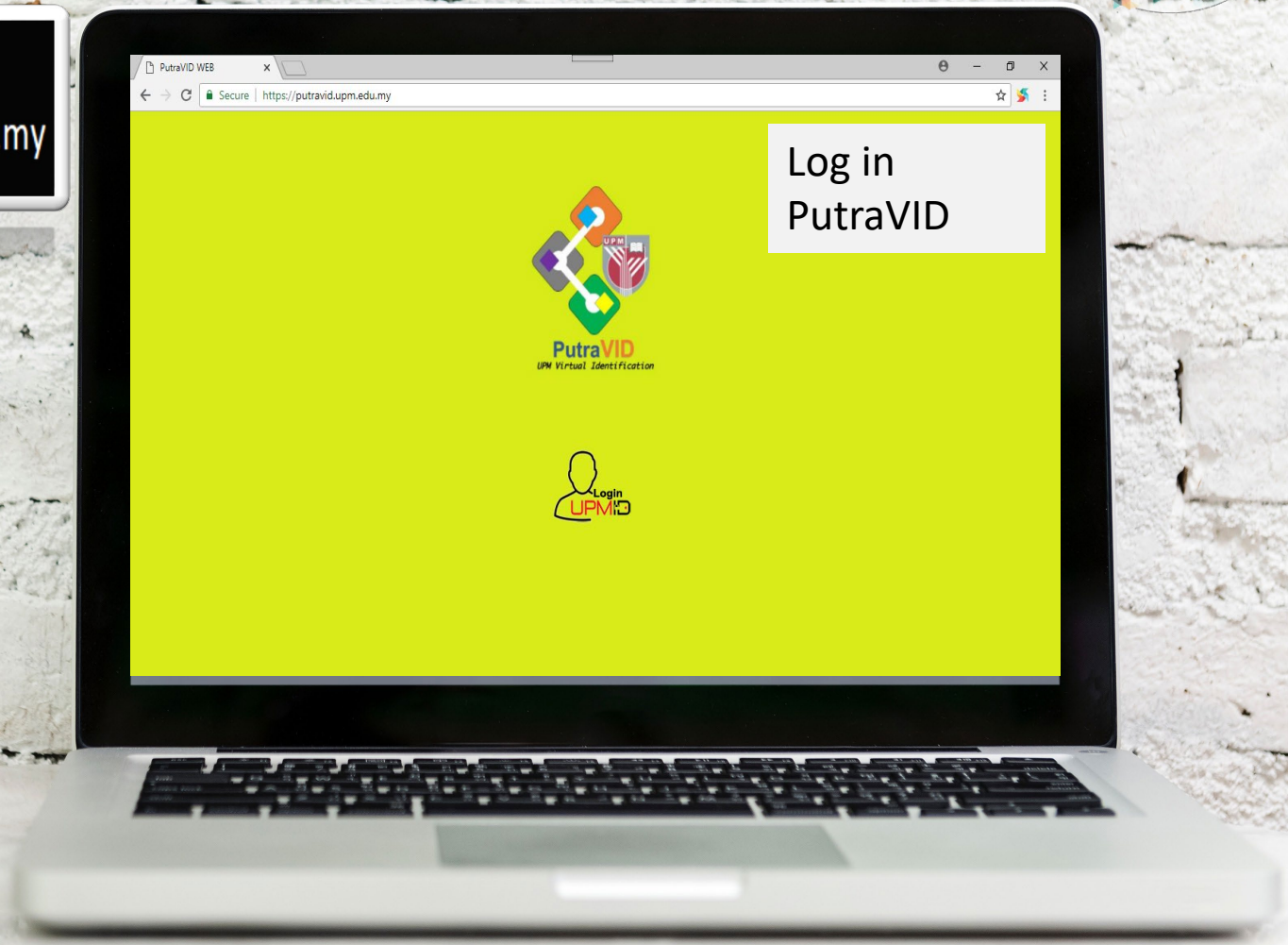
# About



# PutraVID : WEB Version



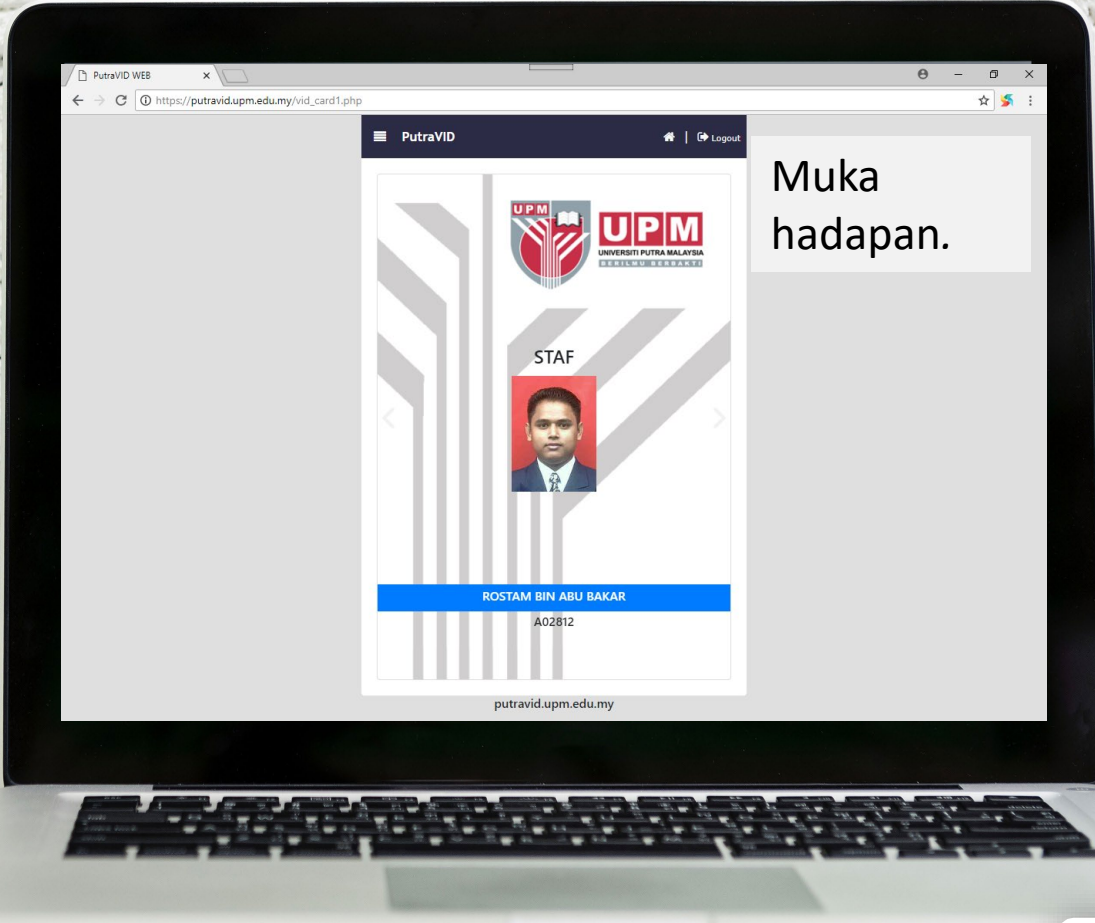
**WEB ACCESS**  
<https://putravid.upm.edu.my>



# PutraVID : WEB Version



**WEB ACCESS**  
<https://putraVID.upm.edu.my>



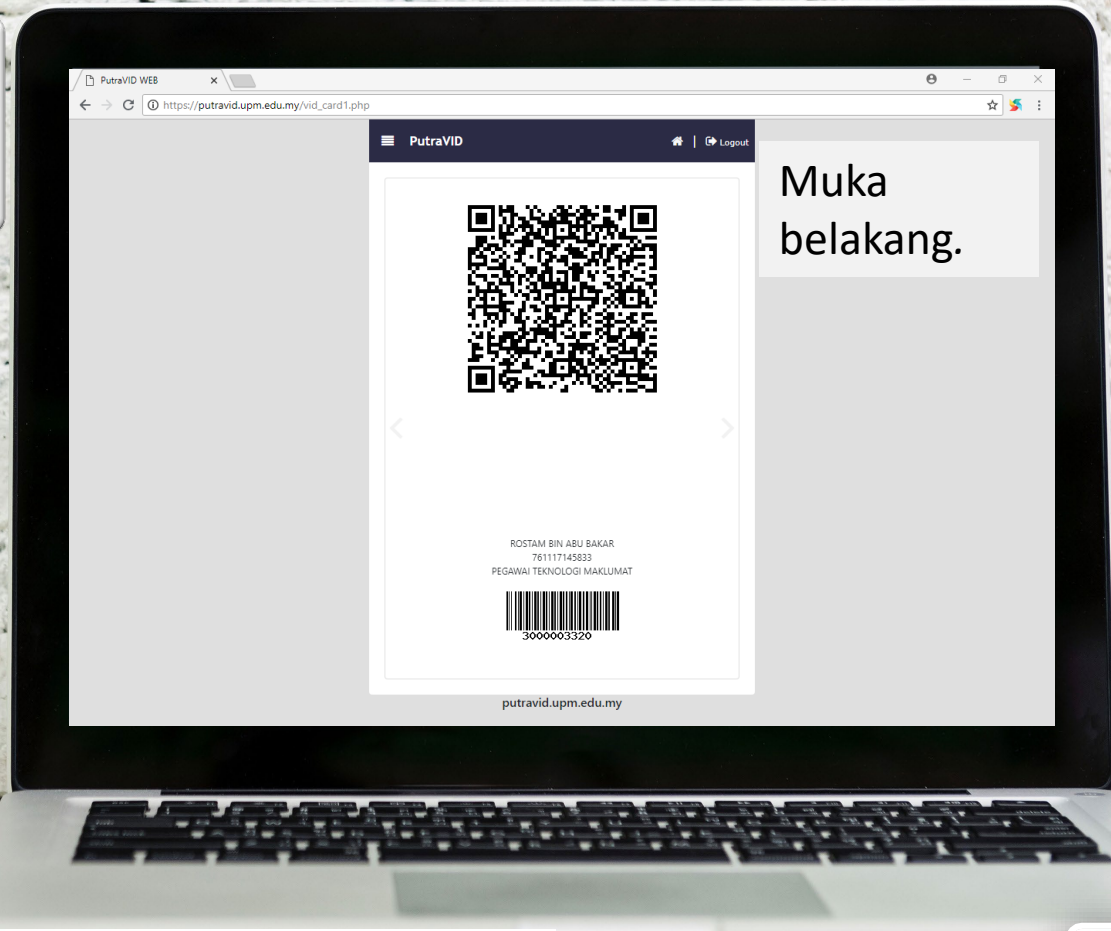
Muka hadapan.

# PutraVID : WEB Version



WEB ACCESS

<https://putravid.upm.edu.my>



# Putra Verify : Putra VID Verification



4G+ 74% 9:44 pm

**PutraVERIFY**  
UPM Virtual Verification

Login UPM VID

-- or --

Touch ID

PVER-V2.0

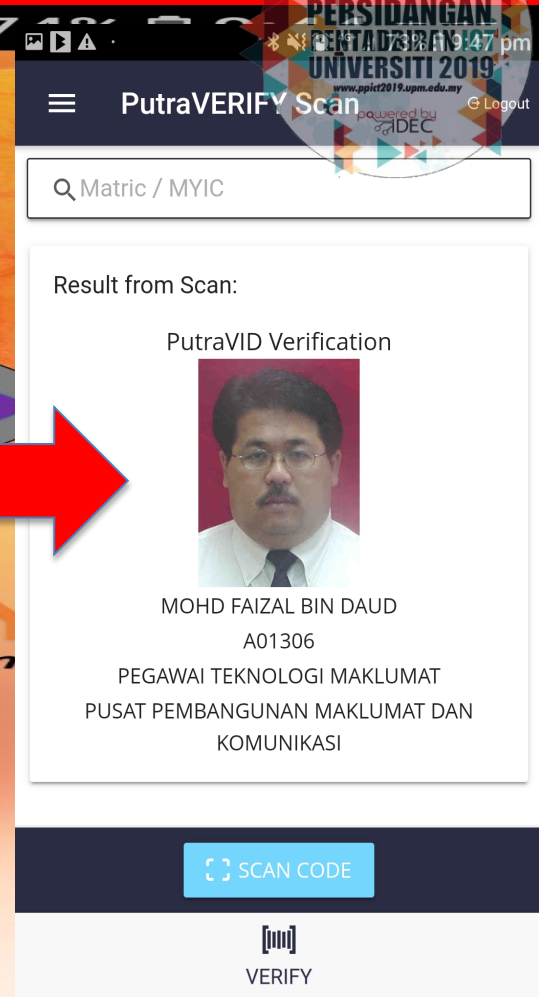
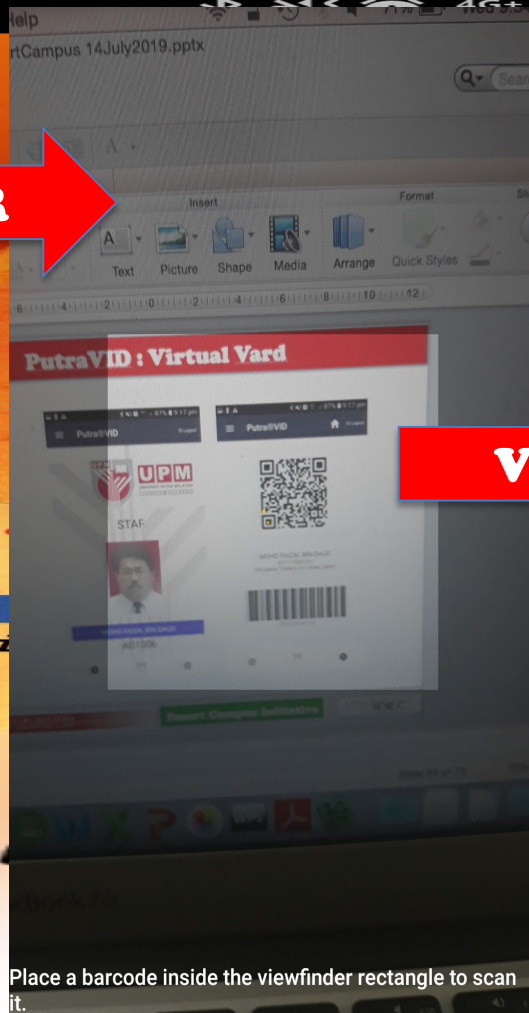


# PutraVERIFY

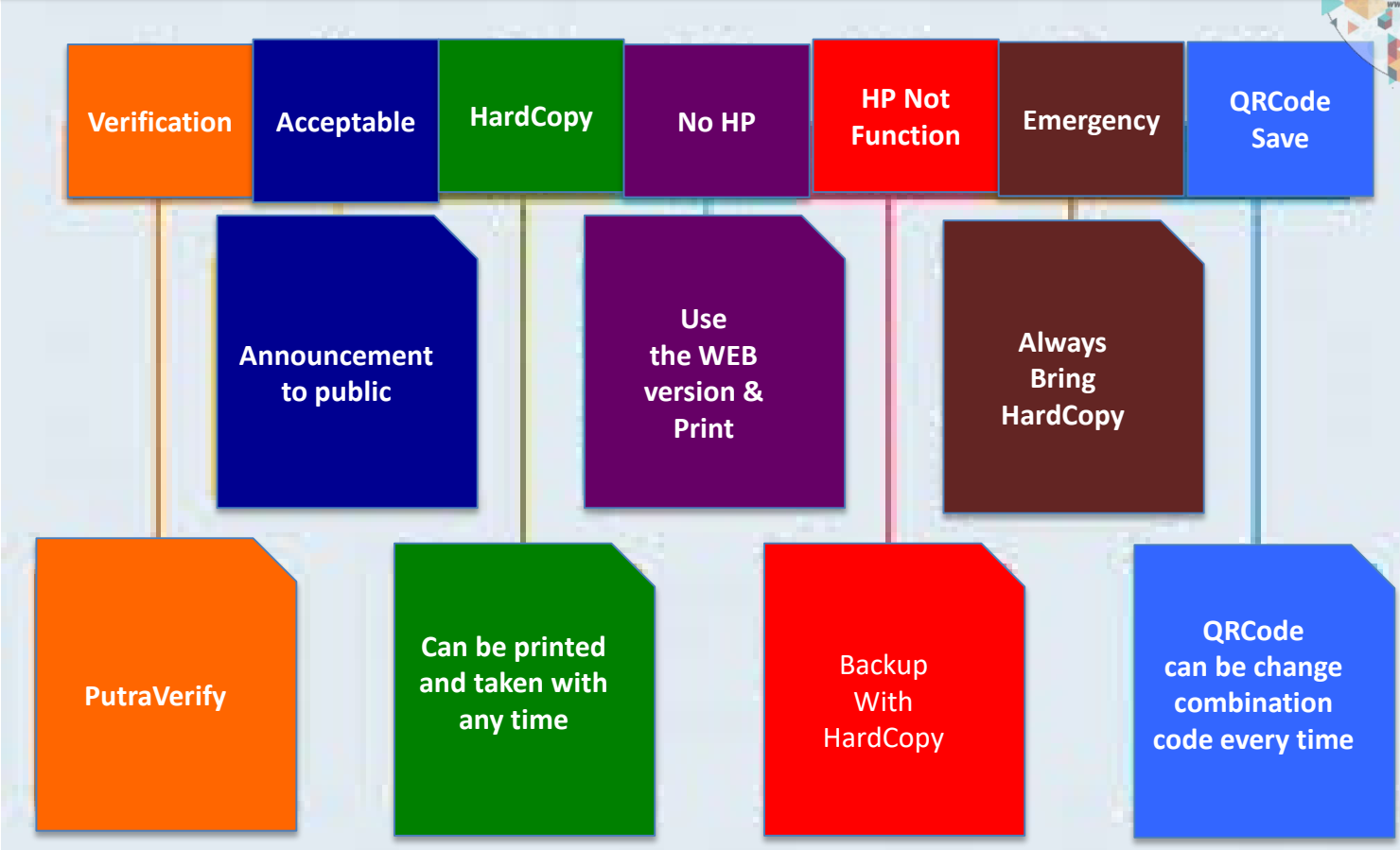
UPM Virtual Verification



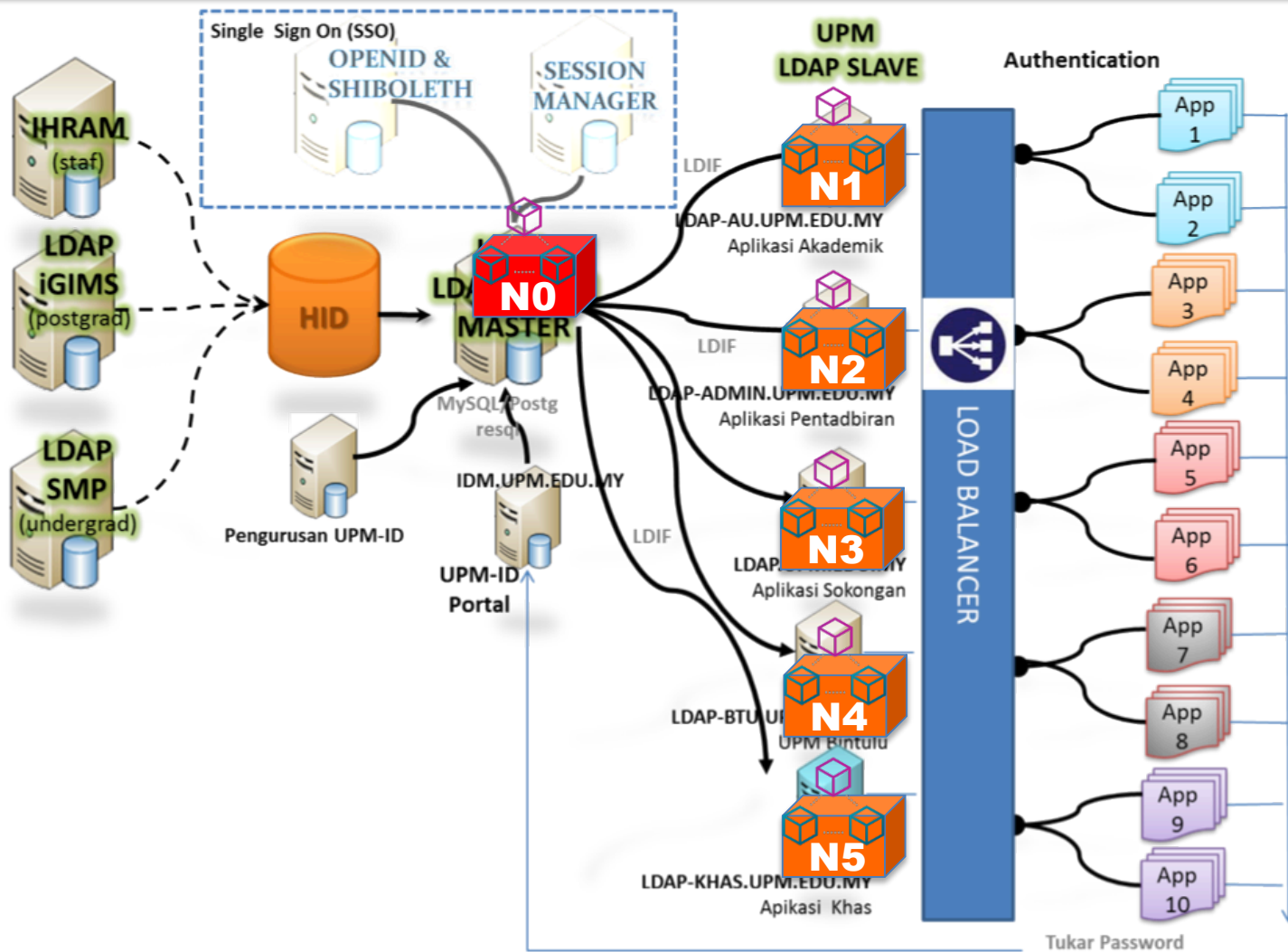
# Putra Verify : PutraVID Verification



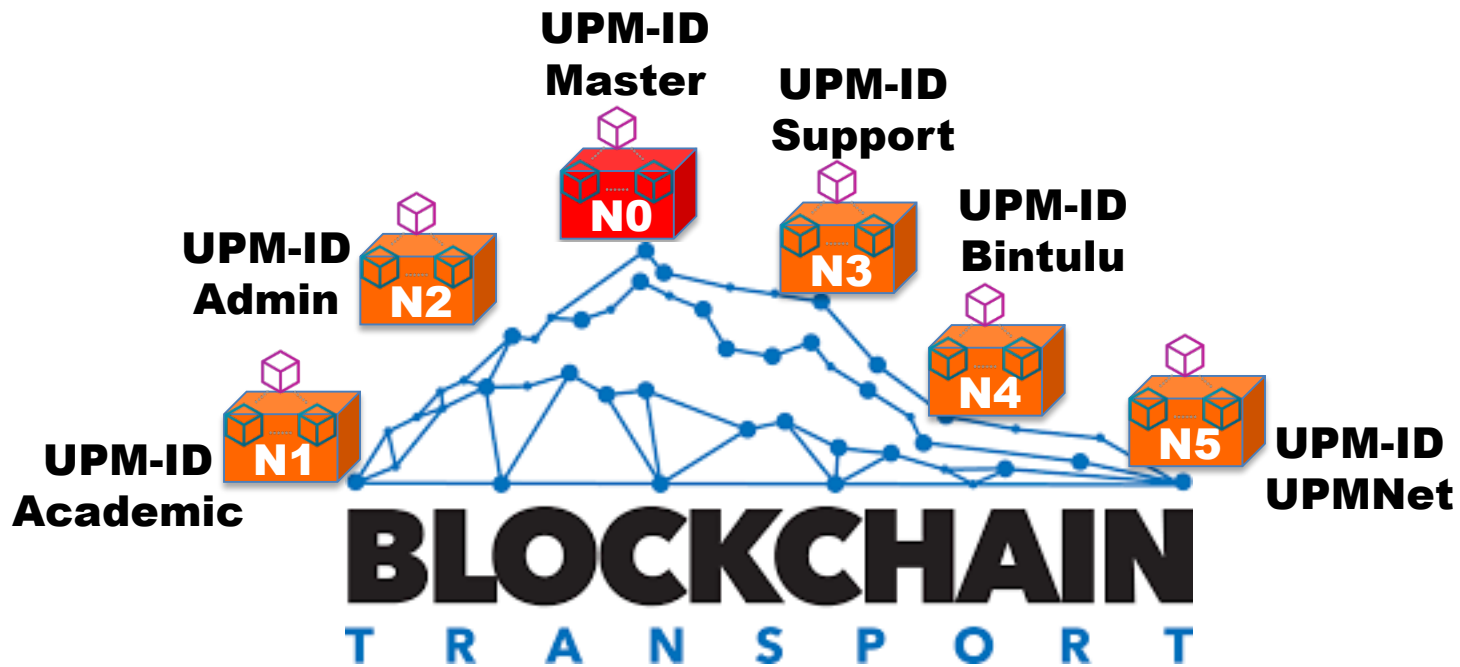
# PutraVID : Implementation Issues



# PutraVID : Collaboration With BlockChain



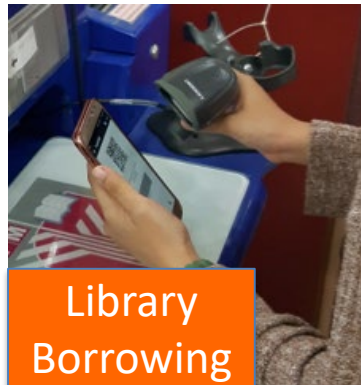
# PutraVID : Collaboration With BlockChain



# PutraVID : Gate to SmartCampus Application/Infrastructure



Library  
Entrance



Library  
Borrowing



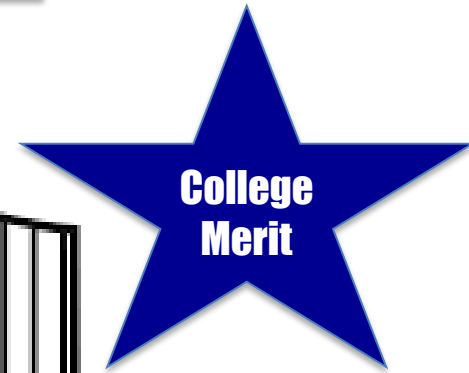
PutraCOMM



iCOME



Application  
QRCode Login





- 1. ORCode Application Login**
- 2. Library Auto Gate System**
- 3. Library Borrowing System**
- 4. Putracome – Event Attendance**
- 5. PutraMerit - College Activity Attendance**
- 6. PutraComm – UPM Unified Communication**

# PutraVID : QRCode Application Login



# eRO



## Sistem Permohonan Pembelian



-- OR --






Click Here



Login to  
Application  
via  
PutraVID  
QRCode  
Authentication

### Pejabat Bursar

Aras 2,  
Bangunan Canselori Putra,  
43400 UPM Serdang,  
Selangor Darul Ehsan.  
03 8946 6218   
03 8656 0160   
erosupport@upm.edu.my 



# PutraVID : Library Auto Gate System





# PutraVID : Library Auto Gate System



Student  
Scan  
PutraVID  
ORCode

Valid  
Student  
Photo & Info  
Show on  
Screen



# PutraVID : Library Borrowing System





## UPM Attendance Management System



# PutraCome Component



**Event  
Manager  
Portal**



**Putra@COME**

ATTENDANCE MANAGEMENT INFORMATION SYSTEM

BETA1.0

# iCOME



**Client  
Attendance  
Scanner  
Mobile Apps**

# PutraCome : Event Manager Portal



- Event
- External Guest



## Persidangan Pentadbir ICT 2019 ( PPICT19 )

Date of Conference : 24/07/2019



MOHD. FAIZAL BIN DAUD



### CONFERENCE DETAILS

Persidangan Pentadbir ICT 2019  
Conference Created : 24/07/2019

[Update Event](#)

#### CONFERENCE Details

- Time : 11:00 pm - 11:30 pm
- Venue : Marriot Putrajaya
- Nick Name : PPICT19
- Event Type : Conference

UPM Staff 0

### ATTENDANCE REGISTRATION

No Scan Capture data

Attendance  
0 00 03 10

Activation Code

Status

OWABAY

**CLOSED**

[Regenerate](#)

[Send Code](#)

[Active Event Code](#)



# PutraCome : Scanner Page



Putra@COME Event Management System

Please scan your attendance with icome app

Event QRCode



Putra@COME Event Management System

Please scan your attendance with icome app

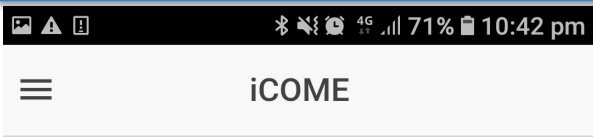
Event QRCode



PP ICT 19



# PutraCome : iCOME Scanner Process



## Staff Information

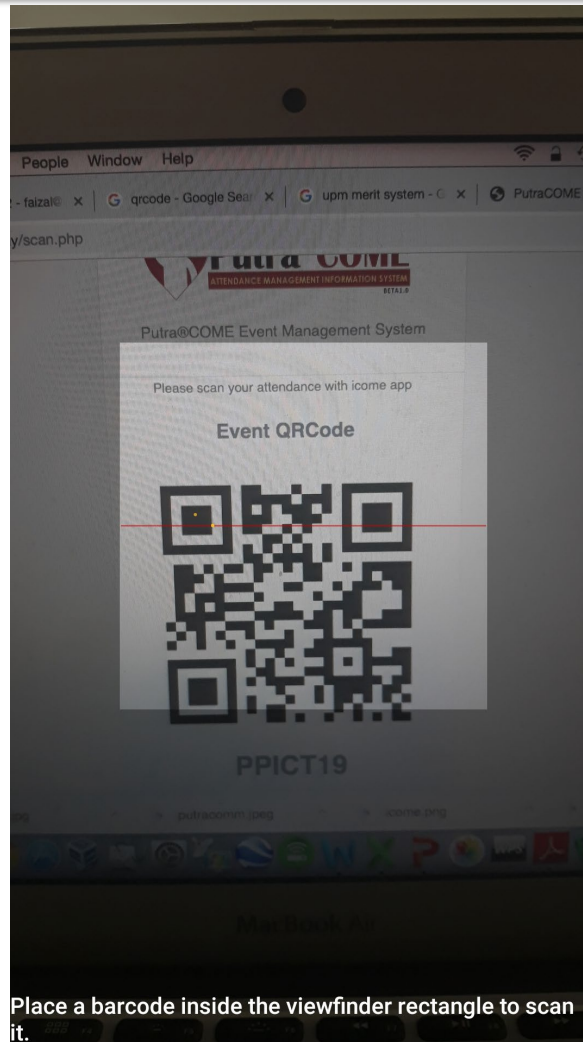
MOHD. FAIZAL BIN DAUD  
A01306  
PUSAT PEMBANGUNAN MAKLUMAT  
DAN KOMUNIKASI



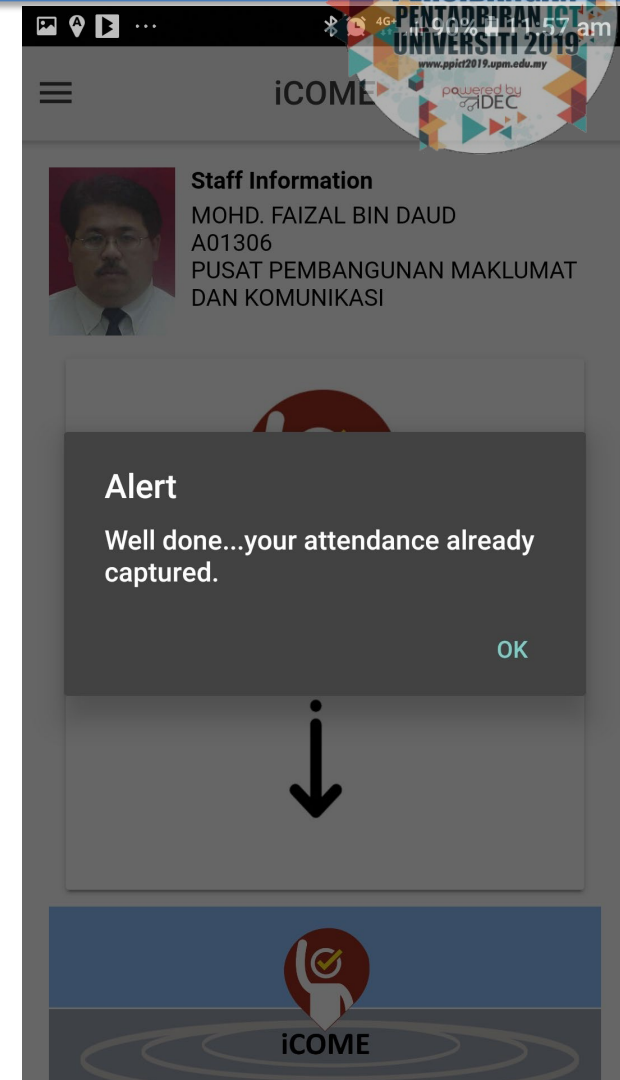
You can scan your attendance  
by click the picture below



iCOME



Place a barcode inside the viewfinder rectangle to scan it.



# PutraCome : Scanner Process





# PutraVID : PutraMerit



## Managing Student Activity

- Record attendance
- Earn merits to stay in College



# PutraVID : PutraMerit



Attendance  
Scanning  
- Student Activity



# PutraVID : PutraComm (Unified Communication)



## PUTRACOMM Universiti Putra Malaysia (UPM)

PutraComm App as Smart Campus App, is a virtual facility of UPM phone system in the Mobile App environment, based on **Unified Communication (UC)** technology.

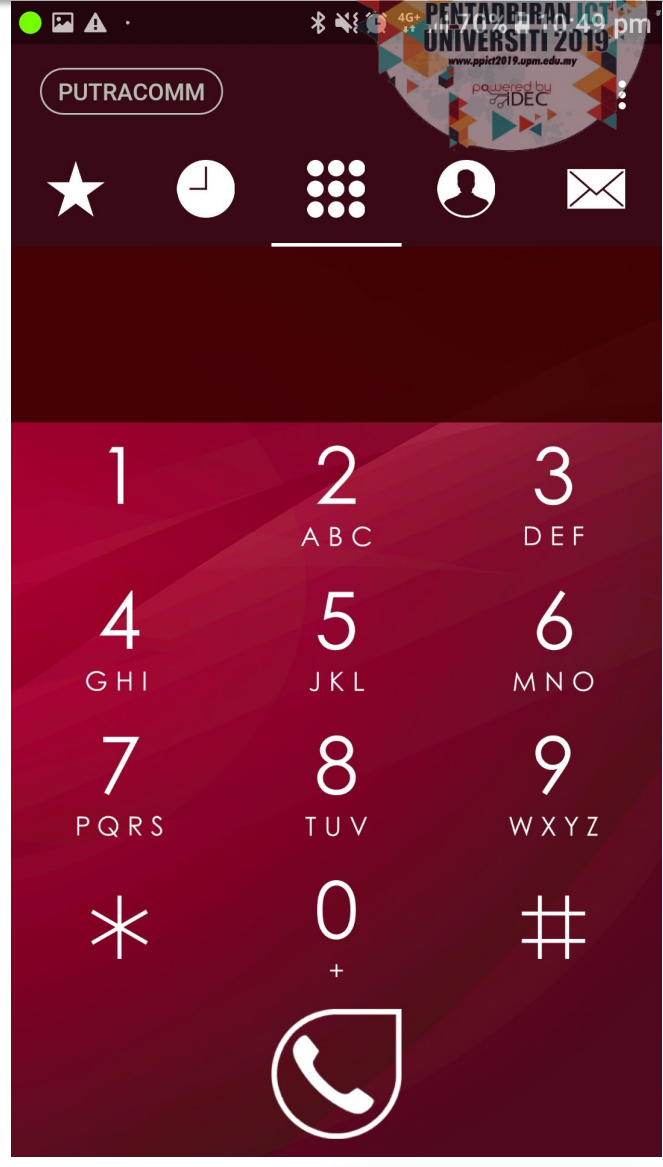
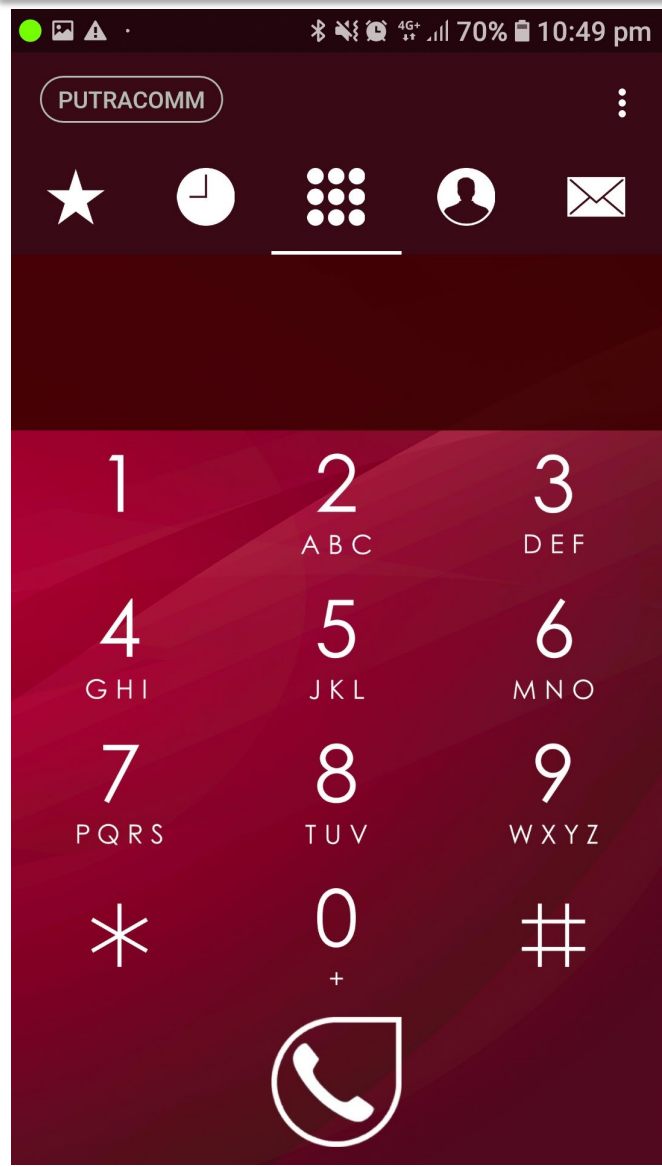
PutraComm will be used by UPM staff as a **University Phone Facility** that enable staff to make or receive calls either by voice or video using personal Smart Phones.

Through this application, UPM staff can also engage in various activities such as conducting meetings, discussions, briefings or organizing university activities remotely via **Online Video Conferencing** methods.

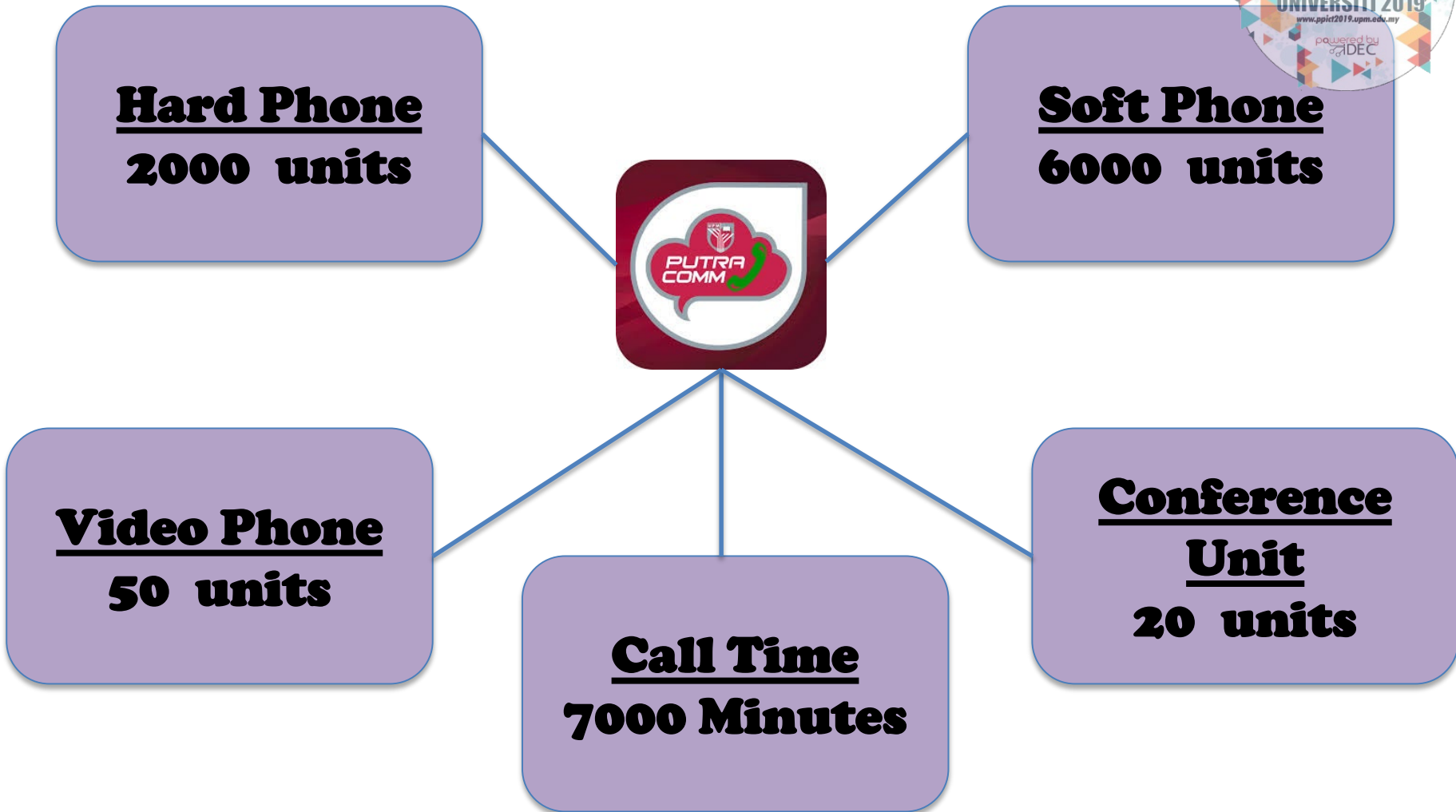
PutraComm will continue to drive UPM as one of the leading universities in Malaysia to move faster, progressively and excellently with Ubiquitous concept of communication (anytime, anywhere and anydevice) to ensure UPM achieves its mission as a university of international repute.



# PutraVID : PutraComm (Unified Communication)



# PutraVID : PutraComm (Unified Communication)





**UPM**  
UNIVERSITI PUTRA MALAYSIA  
BERILMU BERBAKTI



**UNIVERSITI PUTRA MALAYSIA**  
AGRICULTURE • INNOVATION • LIFE

# **UPM Future SmartCampus Initiative**

# UPM Future SmartCampus Initiative

SMART  
SECURE  
SAFE  
SHARED  
SEAMLESS

PERSIDANGAN  
PENTADBIRAN ICT  
UNIVERSITI 2019  
www.ppicr2019.upm.edu.my

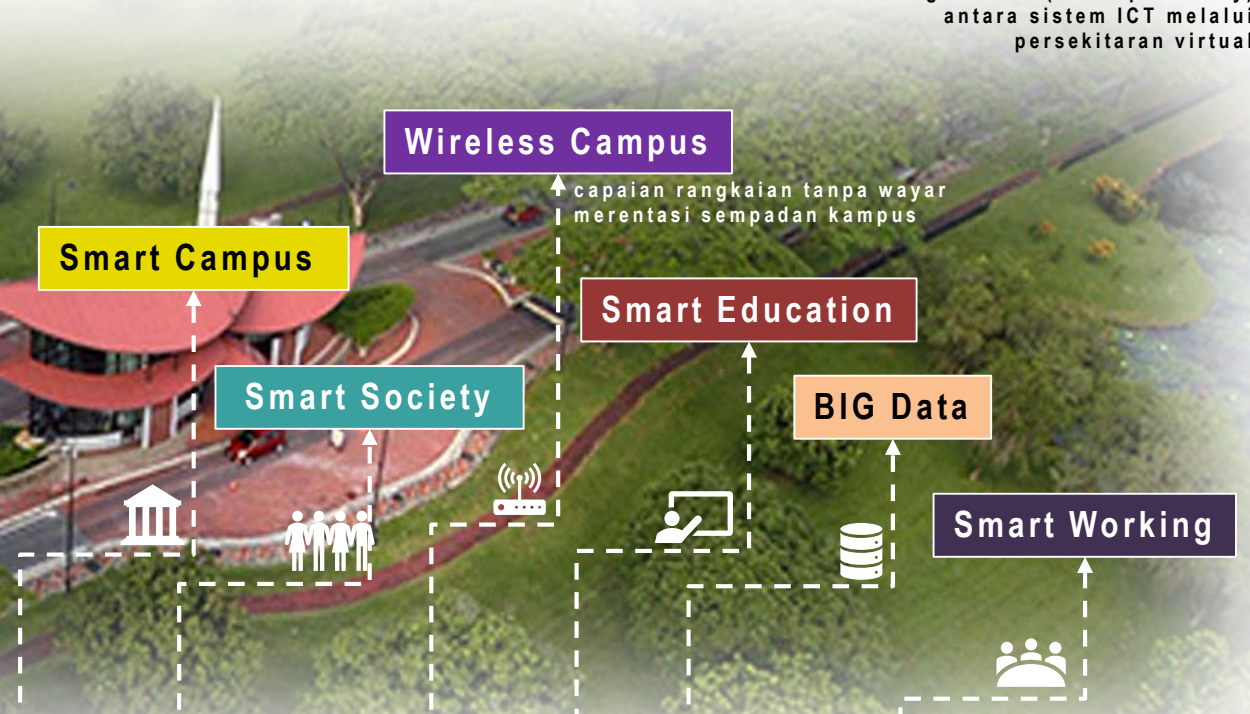
Cloud Infrastructure

## GLOBALY CONNECTED

Peningkatan pencapaian internet kampus dan meluaskan jaringan melalui rangkaian (*network link*) dengan komuniti global

Memenuhi keperluan storan, integrasi dan saling kendali (*interoperability*) antara sistem ICT melalui persekitaran virtual

- VDI Smart Desktop For Student Lab
  - Putra®EduCloud
  - Putra®Live
  - Putra®Helpdesk
  - One Staff One Mobile App
  - Bring Your Own Device (BYOD)
  - Putra®eWallet
  - Putra®VR Arena
- SMART CAMPUS



# ICT CAMPUS ENVIRONMENT

with the benefit of cloud infrastructure

# UPM Future SmartCampus Initiative



## VDI Smart Desktop For Student Lab

Pelaksanaan Smart Desktop for Computer Lab menggunakan teknologi *Virtual Desktop Infrastructure* (VDI) dapat menangani isu komputer sedia ada yang telah berusia lima (5) tahun atau lebih, mengurangkan kos baik pulih dan penyelenggaraan serta isu kekurangan juruteknik komputer.

## Putra®EduCloud

Pelaksanaan ini akan dapat menyokong, meningkatkan penyelidikan seiring dengan perkembangan teknologi dalam proses pengajaran dan pembelajaran yang memerlukan pelajar dan pensyarah mempunyai ruang untuk penyimpanan maklumat pengajaran dan pembelajaran. Peningkatan aktiviti penyelidikan memerlukan server dan ruang storan bagi menempat dan menguji penyelidikan mereka.

## Putra®Live

Projek ini wajar dilaksanakan kerana dapat meningkatkan *ranking* universiti, menjimatkan kos serta memberi faedah secara langsung kepada pegawai akademik dan pelajar. Ianya juga bermanfaat di mana meningkatkan koleksi video (Perpustakaan) serta inovasi pengajaran dan medium pembelajaran secara video (Pusat Pembangunan Akademik (CADE).

Virtual Reality (VR) menjadi amalan terkini dalam penggunaan media digital. Dengan mempraktikkan VR, aktiviti menonton acara sukan atau aktiviti majlis UPM serta pembelajaran, pengajaran dan penyelidikan akan menjadi lebih menarik.

## Putra®VR Arena

## Putra®eWallet

Ia merupakan kaedah yang menjadi pilihan pengguna bagi transaksi pembayaran yang pantas, mudah, selesa dan selamat (*Consumer anonymity*) serta tiada perubahan dalam pelaporan.

## Bring Your Own Device (BYOD)

Pelaksanaan persekitaran yang lebih interaktif, efisien dan *wireless* untuk lebih 200 bilik kuliah pengajaran sedia ada di UPM. Memudahkan kolaborasi dan perbincangan di antara pegawai akademik dan pelajar sekiranya melaksanakan konsep "Bring Your Own Device (BYOD)".

# SMART CAMPUS

Penjimatan dari segi penggunaan telefon di mana soalan yang kerap ditanya dan mudah dapat dijawab menggunakan Chatbot. Ia dapat meningkatkan kualiti perkhidmatan pelanggan dengan jawapan yang seragam, penyelesaian segera serta mengurangkan kadar kesilapan semasa berinteraksi atau berkomunikasi di antara manusia.

## Putra®Helpdesk

## One Staff One Mobile App

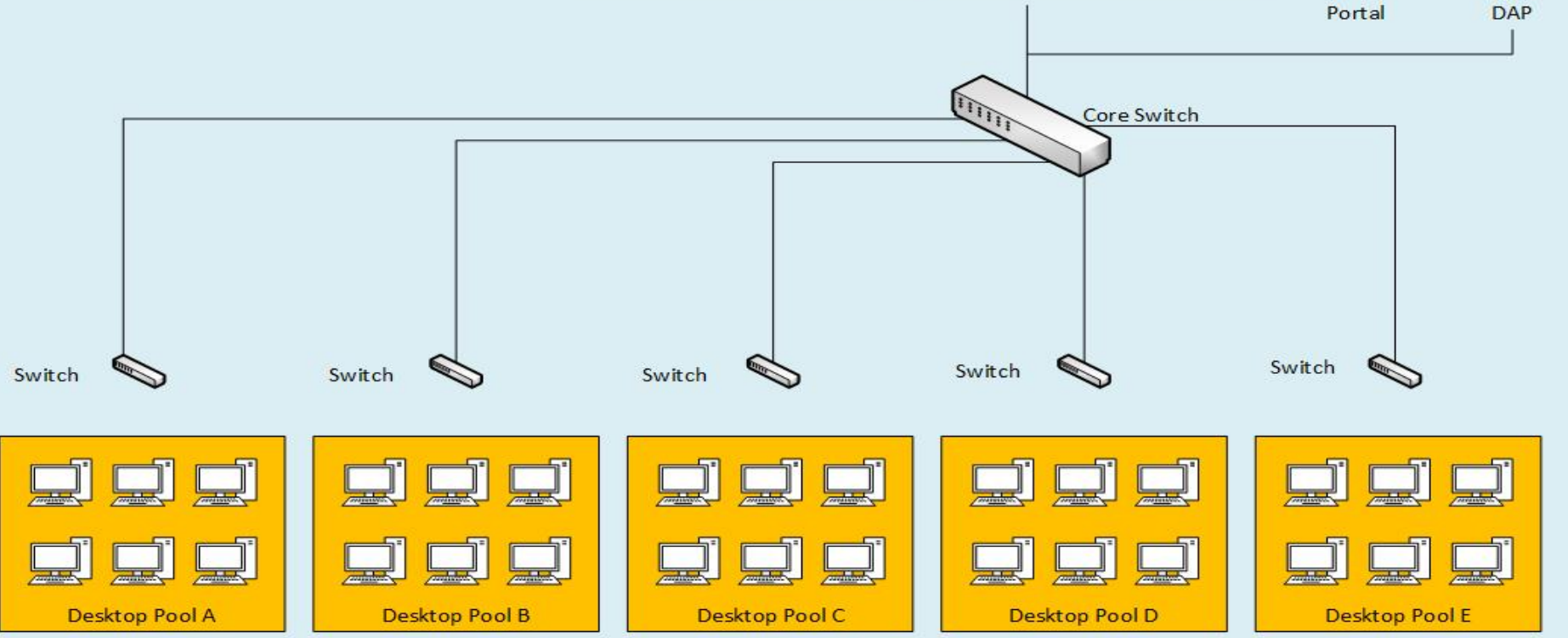
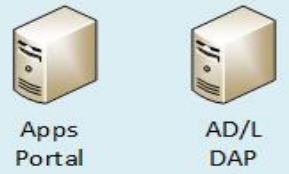
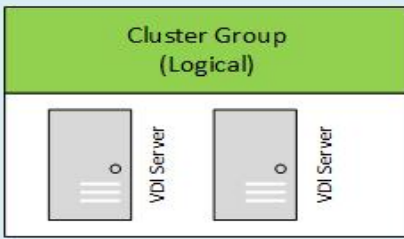
Amalan penggunaan aplikasi *mobile* di kalangan warga kampus terhad disebabkan aplikasi *mobile* berjenama UPM masih tidak banyak dibangunkan. Dengan kepelbagaian teknologi aplikasi *mobile* akan dapat membantu menyokong proses kerja, pengajaran dan pembelajaran di UPM seiring dengan penggunaan pelayar web (*mobile web*) berbanding aplikasi *mobile*.



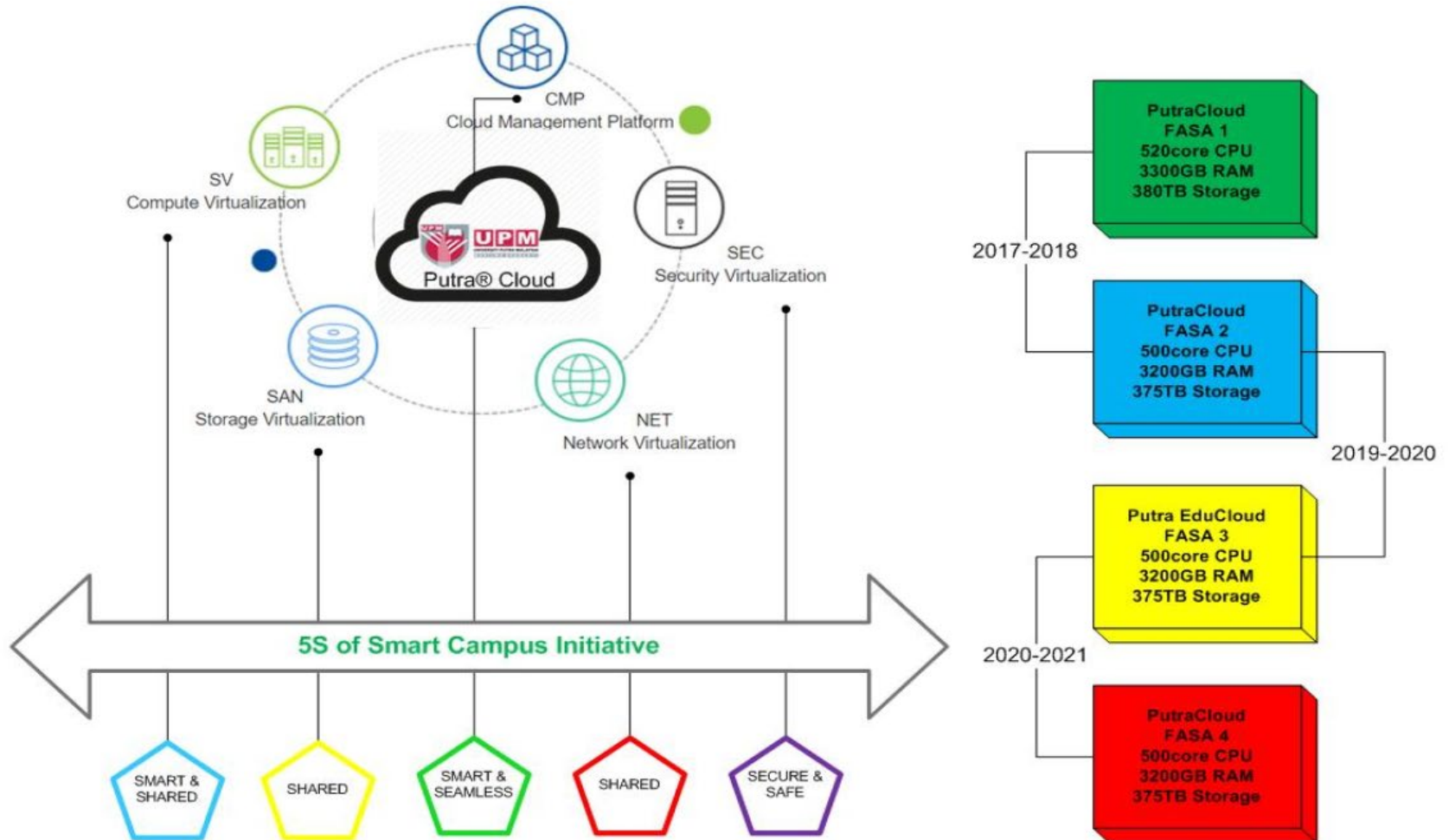
# VDI SMART DESKTOP FOR STUDENT LAB

## UPM Smart Desktop Architecture

- HA Configuration**  
 Type 1 Active-Passive  
 Type 2 Active-Active
1. Image Synchronization
  2. Service Aware Failover
  3. PXE Load Balance
  4. LB Image Distribution
  5. Network LB in Layer 7

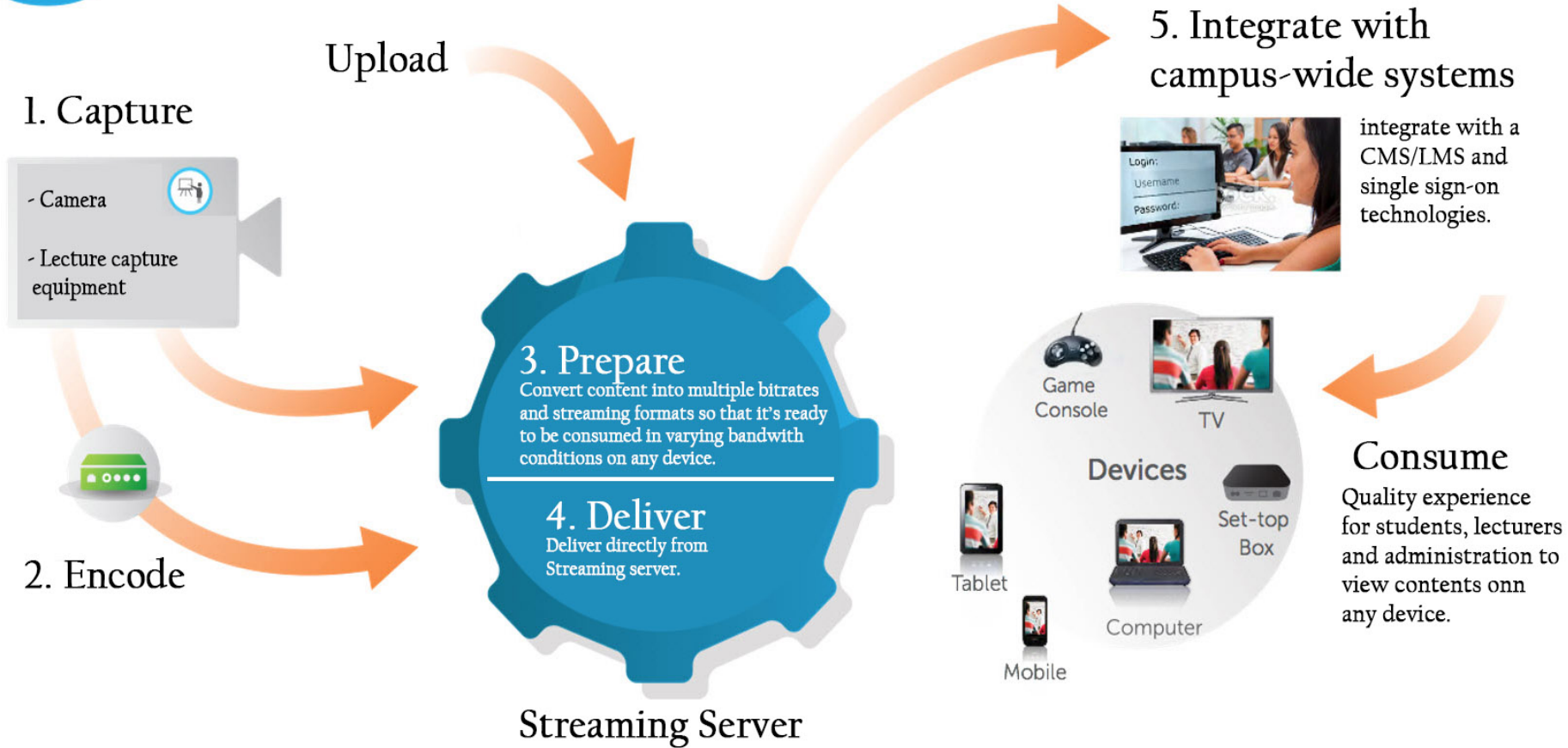


## Putra<sup>®</sup> Cloud for UPM Smart Campus Initiative





# PUTRA® LIVE - STREAM LIVE TO ANY DEVICE ANYWHERE



**SMART**  
**SECURE**  
**SAVE**  
**SHARED**  
**SEAMLESS**

## ONE STAFF ONE MOBILE APPS



Staf UPM dilatih supaya berkebolehan membangunkan pelbagai mobile apps yang signifikan bagi menyokong pengajaran, pembelajaran dan sebagainya. Akhirnya mobile apps yang telah dibangunkan akan dikomersialkan di bawah jenama UPM ke seantero dunia.

**60++orang**

STAF UPM



**12 orang**

MOBILE APPS RESEARCH & INNOVATION  
TASK FORCE IDEC  
(MARIN FORCE)



TOT Training,  
Consultation &  
Development

Deployment

Dalam tempoh **2 tahun**  
UPM mempunyai sekurang-kurangnya 60 mobile apps di  
Android & IOS

**PERANAN**

- Penyelidik Teknologi Inovasi Baru
- Pembangun Mobile Apps Mahir
- Pengajar Mahir
- Polisi Pembangunan Mobile Apps

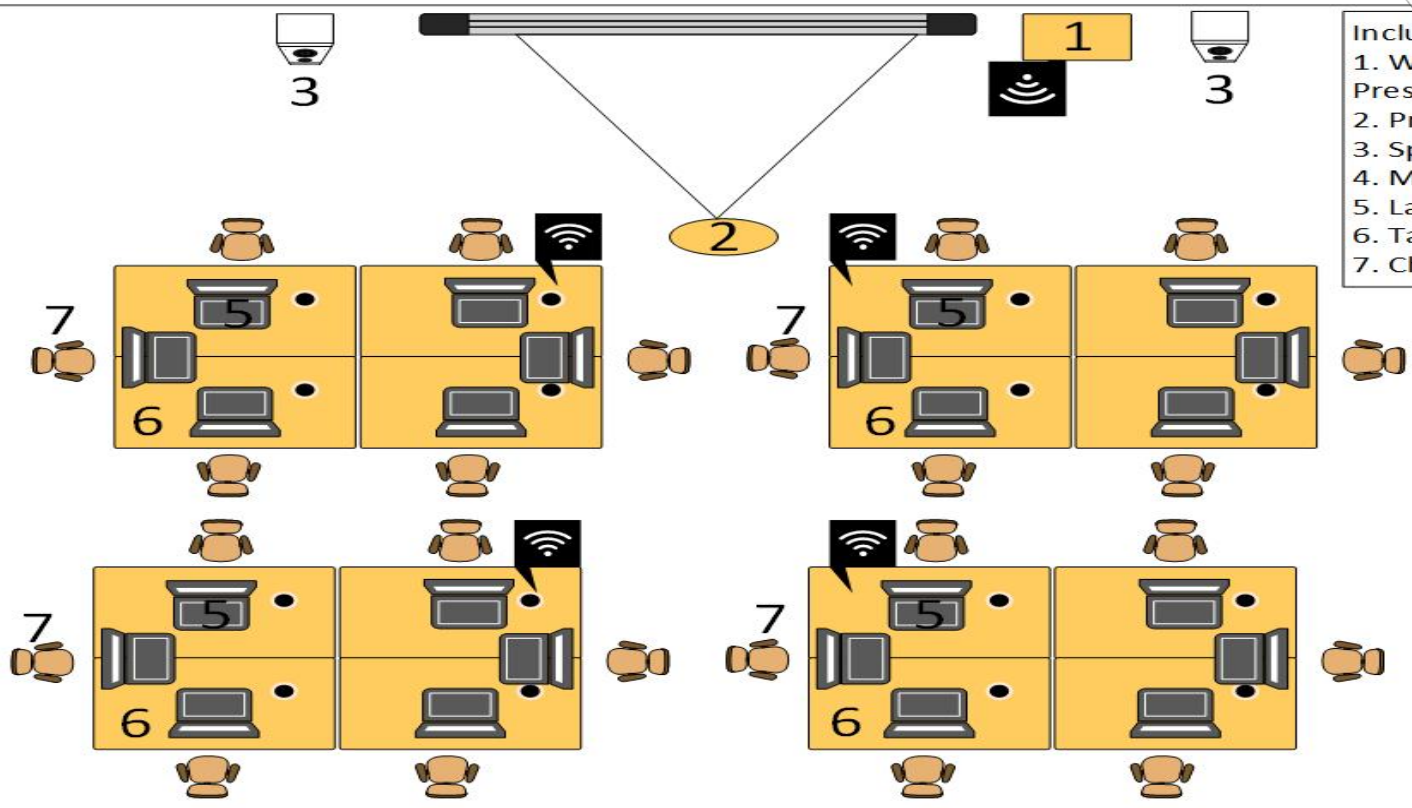
Bertanggungjawab dalam menyelaras, menyeragamkan standard dan kualiti mobile apps jenama UPM



**60 Mobile Apps**



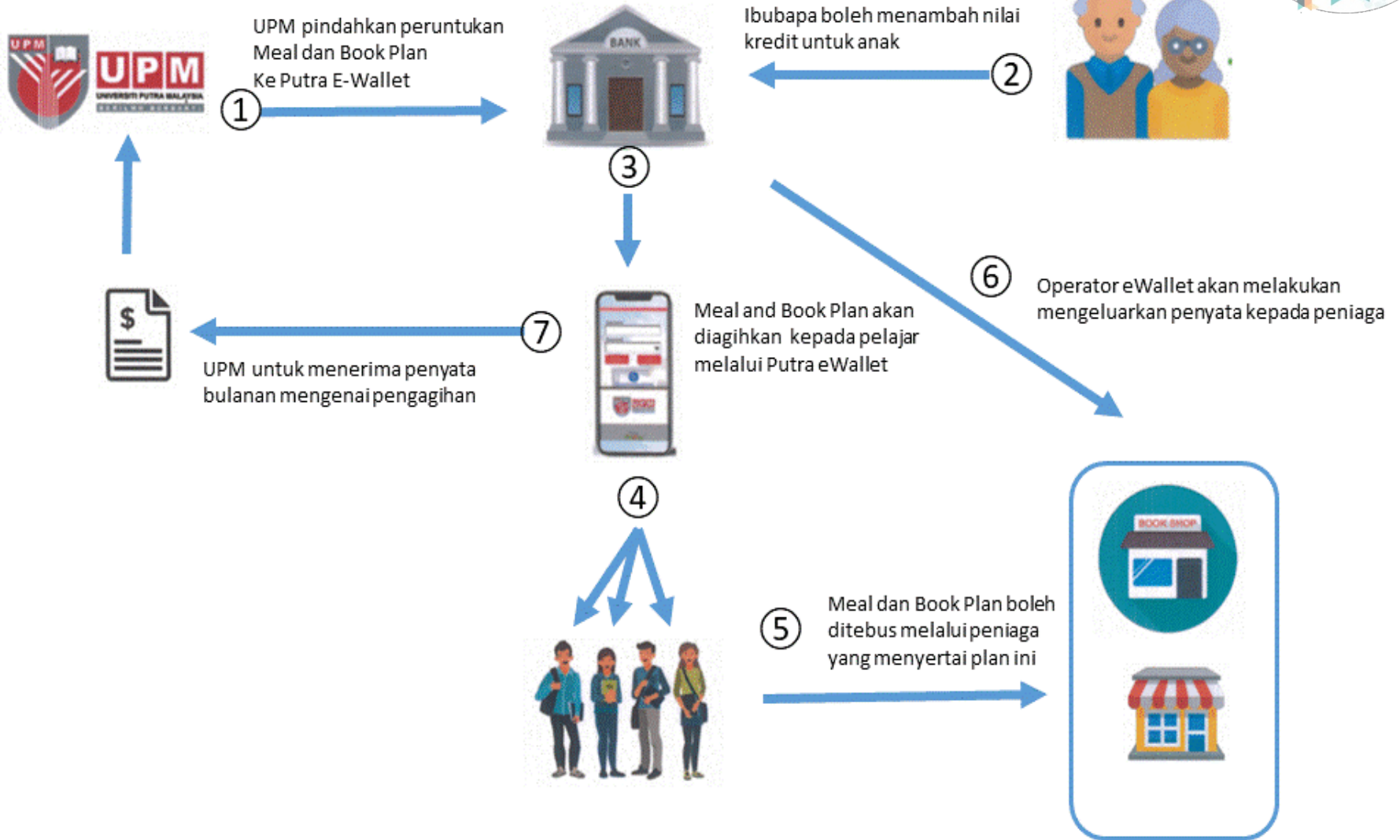
# BRING YOUR OWN DEVICE (BYOD) - SMART CLASSROOM



- Include:
- 1. Wireless Device Presentation
  - 2. Projector
  - 3. Speaker
  - 4. Manual Screen
  - 5. Laptop
  - 6. Table
  - 7. Chair

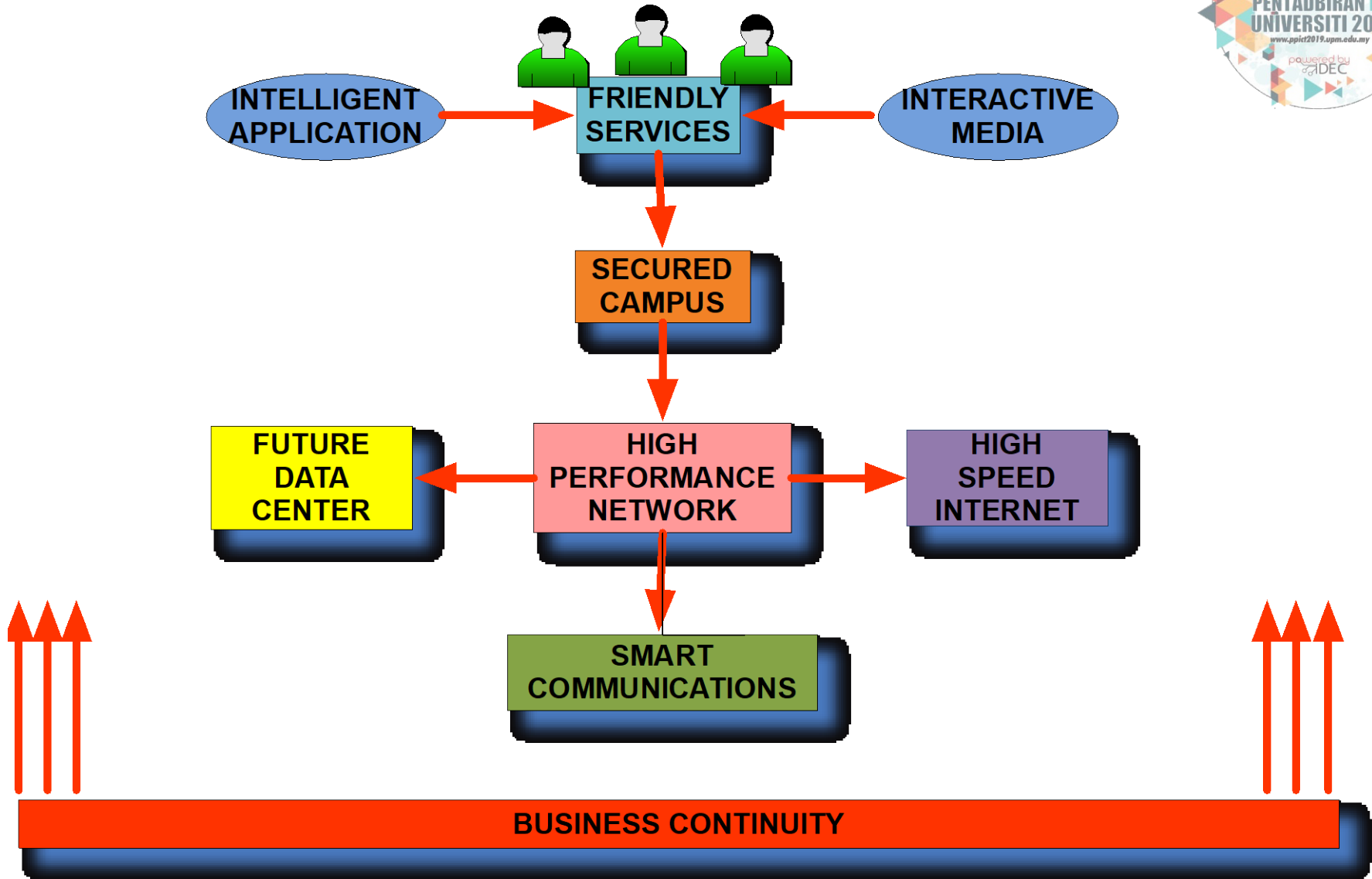
BYOD SMART CLASSROOM – WIRELESS INTERACTIVE PRESENTATION

# PUTRA® eWALLET





# SmartCampus ICT Road Map





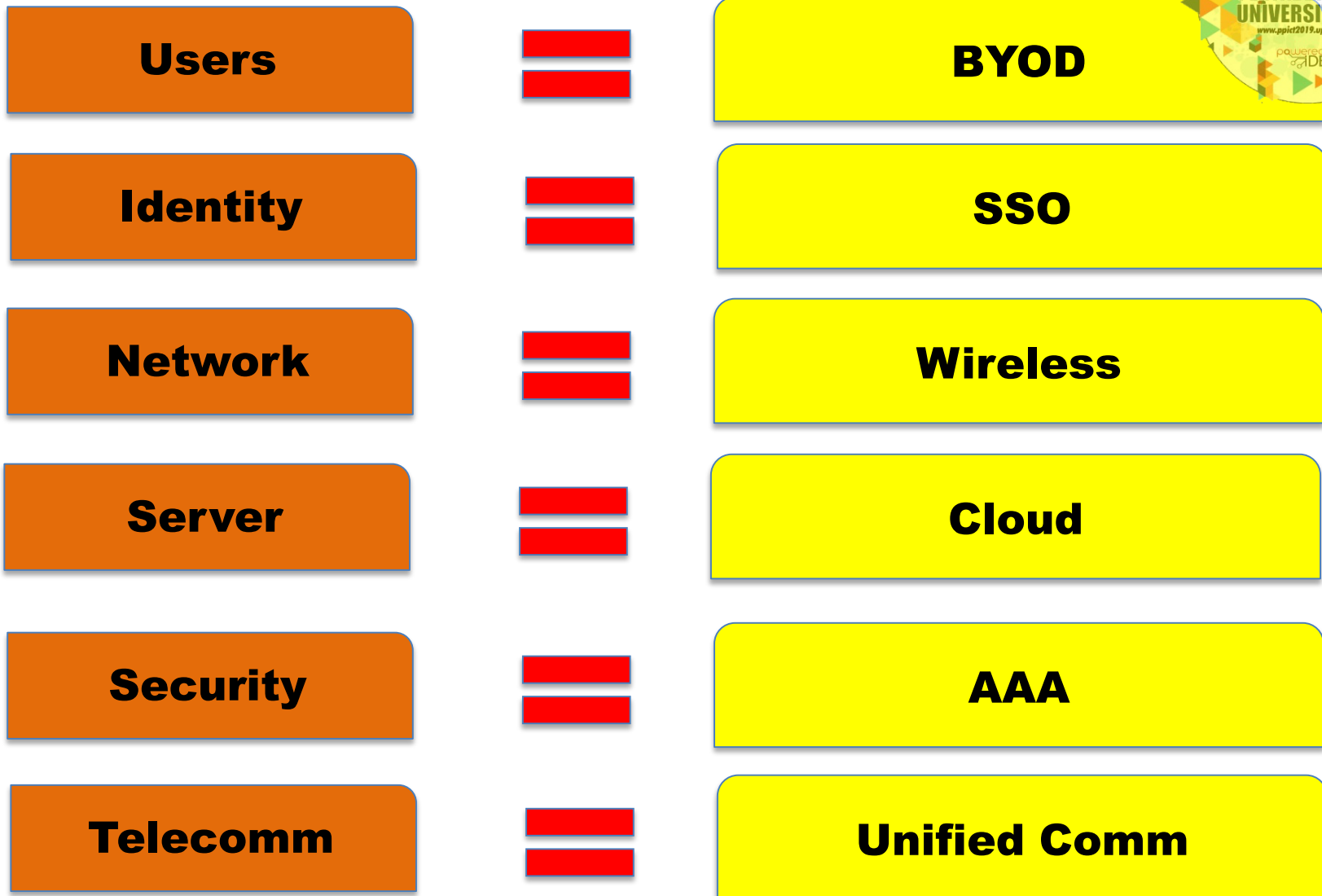
# SmartCampus ICT Technology Mapping



		USERS	ICT INFRA	ICT INFO
1	FRIENDLY SERVICES	Any - Where & Time, ICT Training, Helpdesk	BYOD	MobileApp , InfoGraphic
2	SECURED CAMPUS	End Point Security	UnifiedTreatMgmt - UTM	Single-ID & SSO
3	HIGH PERFORMANCE NETWORK	Wireless & SecureAccess	100/40/10G Network	Smart-NOC
4	HIGH SPEED INTERNET	Secure & Manage	100G Bandwidth : MYREN-X	1.Bandwidth Mgmt
5	FUTURE DATA CENTER	SmartMgmt & Green	Private-Cloud VirtualHost	BigData DB
6	SMART COMMUNICATIONS	RealTimeComm RTC	Unified PABX	SoftPhone
7	BUSINESS CONTINUITY	DRPlan	DRCenter	Redundancy



# SmartCampus ICT Direction





# Campus Network Without LAN

**Next topic to be Discuss**





**iDEC Team Apps**





***iTIm***  
**iDECTeam**  
**Command Center**

powered by  
**iDEC**

**iDEC Team Apps**





**iDEC Team Apps**

