



ISSUE 14 | 2023
UNIMAS IT MAGAZINE

REKA APP BUILDER

A Catalyst for a Sustainable Digital Innovation and Transformation

EDIT & REARRANGE YOUR OWN SPACE

Ciri-ciri Portal Staf UNIMAS

SUCCESS STORIES

Charting the Future of Livestreams with MultiPLS

Exploring New Frontiers

ISSN 2289-2176



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Dari Meja Pengarah

Bismillahirrahmanirrahim,

It is my pleasure to welcome you to our latest issue of Tag-it, focused on the theme of "Exploring New Frontiers." In today's ever-changing technological landscape, exploring new frontiers has never been more critical for a University.

As we continue to advance and innovate, it is vital to remember that the possibilities for exploration are endless. At the heart of this exploration is the desire to create solutions that improve University's operations and to automate services that boost the effectiveness of administrative procedures, communication and decision-making processes. We must embrace the spirit of exploration to push the boundaries of what is possible and solve complex problems that affect the University as a whole.

I encourage you to read the insightful articles in this issue, which showcase the innovative ideas behind them. Through these stories, we hope to inspire you to join us in exploring the new frontiers that await us.

Thank you for your continued support and interest in our publication. We look forward to bringing you more thought-provoking content in the future.

Latifah

Chief Editor

I am continually reminded of the ever-changing technological scene. With new technology and trends emerging on a daily basis, it is critical that we explore new horizons and push ourselves to think outside the box.

Staying ahead of the curve demands a willingness to take chances and attempt new things, which requires innovation. It entails embracing failure as a learning opportunity rather than being terrified of it. We must continually ask ourselves, "What if?" and "Why not?" in order to innovate.

Thinking outside the box entails thinking beyond the obvious solutions and experimenting with novel concepts. It entails breaking free from typical thinking restrictions and imagining new alternatives. It necessitates that we question our preconceptions and the existing quo.

Innovation and thinking outside the box are critical for success in the continually expanding world of technology. The rate of change is only accelerating, and those who can adapt and welcome new ideas will succeed.

Let's push our boundaries, step outside our comfort zone, and look for new and unconventional answers to the problems you confront. Let us not be satisfied with the status quo, but rather seize the chances that arise when we dare to think differently.

Alhadi



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On The Move



Medical Benefits Companion

Companion baharu ini boleh diakses melalui aplikasi UNIMAS Now. Aplikasi ini menyediakan kemudahan kepada staf UNIMAS untuk:

1. Menganalisa trend penggunaan kelayakan
2. Menyemak baki kelayakan perubatan dan pergigian
3. Memantau tekod penggunaan kelayakan
4. Mendapatkan maklumat klinik panel UNIMAS yang terkini
5. Membantu memberi peta lokasi klinik panel
6. Memeriksa jumlah cuti sakit yang telah diambil
7. Menyemak maklumat dependent yang layak menikmati kelayakan

Integrated Sustainability Information Management System (i-SIMS)

i-SIMS is a digitalised version of paperwork and report submission developed using REKA. It has replaced the conventional method of project application by academicians in working with on projects provided by the University Sustainability Centre (USC). There are three (3) projects available in i-SIMS which are:

1. Service Learning Malaysia (SULAM)
2. University Social Responsibility (USR)
3. Community/Sustainability Project

Pengurusan Aktiviti Pelajar

Modul Pengurusan Aktiviti Pelajar merupakan keperluan Pusat Khidmat Pelajar (PKP) untuk merekod aktiviti-aktiviti bukan akademik pelajar sepanjang berada di UNIMAS termasuk keahlian di dalam persatuan-persatuan yang berdaftar dengan PKP.

Aktiviti-aktiviti pelajar di bawah kategori kesenian & kebudayaan, kerohanian, kesukarelawanan, keusahawanan, pengucapan awam, sukan & rekreasi, sains teknologi dan inovasi, patriotik / perpaduan dan ilmiah kini boleh direkodkan. Pada akhir pengajian, transkrip aktiviti pelajar boleh dijanakan apabila pelajar telah bergraduasi.

Pengurusan Latihan Industri

Pengurusan Latihan Industri merupakan hasil rekayasa daripada modul sedia ada. Ia masih mengekalkan fungsi-fungsi asal dengan tambahan beberapa fungsi baharu seperti fungsi upload dokumen Latihan Industri pelajar, pelaporan buku log (mudah, ringkas dan boleh dicapai oleh penyelia), surat permohonan penempatan, borang penempatan, rekod permohonan pelajar. Ia dibangunkan selaras dengan keperluan Pusat Industri UNIMAS (UNIC).

Program Diploma

Sistem Pengurusan Diploma dibangunkan khusus untuk membantu dalam proses penawaran dan pengurusan program di peringkat diploma yang ditawarkan di UNIMAS. Skop sistem ini merangkumi seawal proses permohonan dan kemasukan, pendaftaran, pembelajaran sehingga ke peringkat penilaian dan pengijazahan.

Sistem ini terdiri daripada modul baharu dan disokong oleh beberapa modul lain yang ditambah baik serta dinaik taraf sejajar dengan objektif sistem.

Office Attendance

Sistem Office Attendance merupakan satu sistem yang telah direkayasa sejak tahun 2021 dengan menggunakan pengaturcaraan terbuka Java Spring Boot dan Angular bagi menggantikan Sistem eAttendance yang sedia ada. Beberapa siri pengujian bersama pengguna telah dilaksanakan pada pertengahan kedua tahun 2022 secara pilot test dan UAT (User Acceptance Test). Sistem ini telah dibuka penggunaannya untuk semua staf pada 15 Disember 2022.

Antara ciri-ciri baharu yang telah ditambah adalah:

1. Paparan dashboard
2. Analisa kehadiran untuk kegunaan pengurusan PTJ
3. Pengurusan waktu bekerja secara giliran atau syif
4. Merekod kehadiran menggunakan Geolocation
5. Pemantauan aktiviti penjadualan tugas
6. Penetapan pegawai pelulus

Modul Pengurusan Penghantaran Tesis, Penyeliaan & Pemeriksaan

Have you heard about the new "Pengurusan Penghantaran Tesis, Penyeliaan & Pemeriksaan"? It's great for managing your thesis from start to finish!

This module or platform helps you to keep all your research and thesis information in one place and manage your external supervisor and examiner information for easy support. It also simplifies submitting your thesis by dates and updates. Besides, it helps manage the examination process which allow your examiner to provide feedback and scheduling your viva. Overall, this module is required for those who are working on their thesis. Please give it a try and see how it can help you to organise in your research.

Modul Permohonan Zamalah

Great news for UNIMAS graduate students applying for the Zamalah scholarship. "Permohonan Zamalah" is now available. It is integrated with the Online Application System and Sistem Pengurusan Pelajar (SPP) which makes the application process easy and hassle-free. With this module, you can easily apply for the scholarship and manage your application all in one place.

The "Permohonan Zamalah" module helps you keep track of the necessary documents required for the scholarship application, with reminders for upcoming deadline. It allows you to track the status of your application and receive notification once it has been approved.

Integrated Academic Forms System_Ugrad (InAFS)

InAFS ialah modul pengurusan borang-borang akademik yang diintegrasikan dengan fungsi pembayaran dalam talian. Fasa II *Integrated Academic Forms System (InAFS)* telah dibuka untuk penggunaan pada penghujung Semester 1 2022/2023. InAFS menyediakan kemudahan:

- Permohonan Daftar Kursus dengan Denda
- Permohonan Daftar Lewat (Pelajar Semasa)
- Permohonan Pendaftaran Kursus di Luar Julat
- Borang Permohonan Kursus Audit /Baik/Ulangan
- Permohonan Pindah Kredit
- Permohonan Gugur Kursus dengan Denda
- Permohonan untuk memohon mengisi Borang Daftar Lewat (Pelajar Semasa)
- Permohonan Cetak Semula Surat Tawaran
- Permohonan Cetak Semula Sijil Kepujian Dekan
- Penilaian Ulangan Khas
- Permohonan Rayuan Meneruskan Pengajian
- Rayuan Menyemak Semula Keputusan Penilaian Kursus

Academic Result Companion

Introducing the new "Academic Result Companion" in UNIMAS Now..This tool is to help students to achieve their academic success! With its' comprehensive features, this tool is designed to help you stay on top of your academic progress. The main features are:

- Performance trend display
- Credit hours monitoring
- Ongoing grade tracking
- Class attendance monitoring
- Course grade goal setting
- Dean's list gold card

The "Academic Result Companion" is an essential tool for any student looking to achieve academic success.

PassNow Companion

The ultimate solution for secure and efficient 2FA (Two-Factor Authentication) approvals is now here! PassNow is designed to make the approval process simpler and more secure using the UNIMAS Now app. With PassNow, you can easily approve 2FA requests, making the approval process faster.

Furthermore, the PassNow Companion provides an alternative to the existing approval methods such as SMS, email, Microsoft Authenticator or Google Authenticator. This eliminate the needs for multiple apps and allows you to streamline your approval process by using a single app for all your UNIMAS-related services.

UNIMAS Now on Harmony OS

Great news for UNIMAS Now app users! The app is now available on Harmony OS, in addition to iOS and Android., where users with Huawei devices can now download and install the app from the Huawei App Gallery.

Users can also enjoy the same features and benefits as on other operating systems. The app provides easy access to all UNIMAS-related services, including class schedule, exam results, library resources, and more. Downloading and installing the UNIMAS Now app from the Huawei App Gallery is simple and easy. Once installed, users can log in with their UNIMAS account and accessing all the app's features right away.

With this addition, more users can enjoy the benefits of the app's features.

Modul Anugerah Akademik

UNIMAS telah memperkenalkan Modul Anugerah Akademik untuk membantu dalam proses pemilihan calon bagi Anugerah Pelajaran Diraja, Anugerah Canselor dan Anugerah Pro Canselor pada Majlis Konvokesyen UNIMAS. Modul ini dibangunkan bertujuan untuk memudahkan dan mempercepatkan proses pemilihan penerima anugerah memandangkan proses sebelum ini menggunakan borang dalam bentuk excel dan pengiraan markah dibuat secara manual oleh pegguna.

Dengan adanya modul ini, pemilihan penerima anugerah dibuat secara lebih mudah, holistik dan cepat kerana pemarkahan dan ranking dibuat secara automatik melalui sistem berdasarkan maklumat pelajar. Modul ini juga akan diperluaskan untuk tujuan anugerah lain seperti Anugerah Yayasan Sarawak dan Anugerah Tun Abdul Razak.

Sistem Pengurusan Akreditasi

Sistem Pengurusan Akreditasi (SPA) telah dibangunkan untuk memantau proses permohonan akreditasi program oleh Bahagian Jaminan Kualiti Akademik (BJKA). Melalui inisiatif ini, dokumen yang diperlukan dalam proses akreditasi dapat disimpan dan dirujuk semasa auditan. Dengan adanya SPA, proses akreditasi menjadi lebih mudah dan efisien. Selain itu, ia turut menyumbang ke arah kelestarian alam sekitar dengan mengurangkan penggunaan kertas dalam sesi auditan.

Keberkesannya telah terbukti semasa sesi auditan ASEAN University Network-Quality Assurance (AUNQA) pada Ogos 2022 di mana SPA telah digunakan untuk memudahkan proses dan menjimatkan penggunaan kertas. Dengan menggunakan SPA, BJKA dapat terus memantau proses akreditasi dan memastikan dokumen yang diperlukan tersedia pada bila-bila masa. Inisiatif ini tidak hanya memudahkan proses akreditasi, tetapi juga mempromosikan kelestarian alam sekitar dengan mengurangkan penggunaan kertas secara berkesan.

REKA APP BUILDER

***A Catalyst For a Sustainable
Digital Innovation and Transformation***

“Without the proper development and deployment of digital technology, the world will fall short of achieving the 2030 Sustainable Development Goals.”

(Deloitte, 2019)

Gold Awards Winner in Malaysia Technology Expo (MTE 2022)

Category

Industry, Innovation and Infrastructure

Title of Innovation

Reka APP Builder - Catalyst to Accelerate Digital Innovation and Transformation

Innovation Team

Ts. Mohd Razif Bin Baital@Latif

Mahani Binti Huja Husin

Macleon Patrick Sibat

Irwandy Bin Zeman

Mohamad Hambali Bin Tumiran

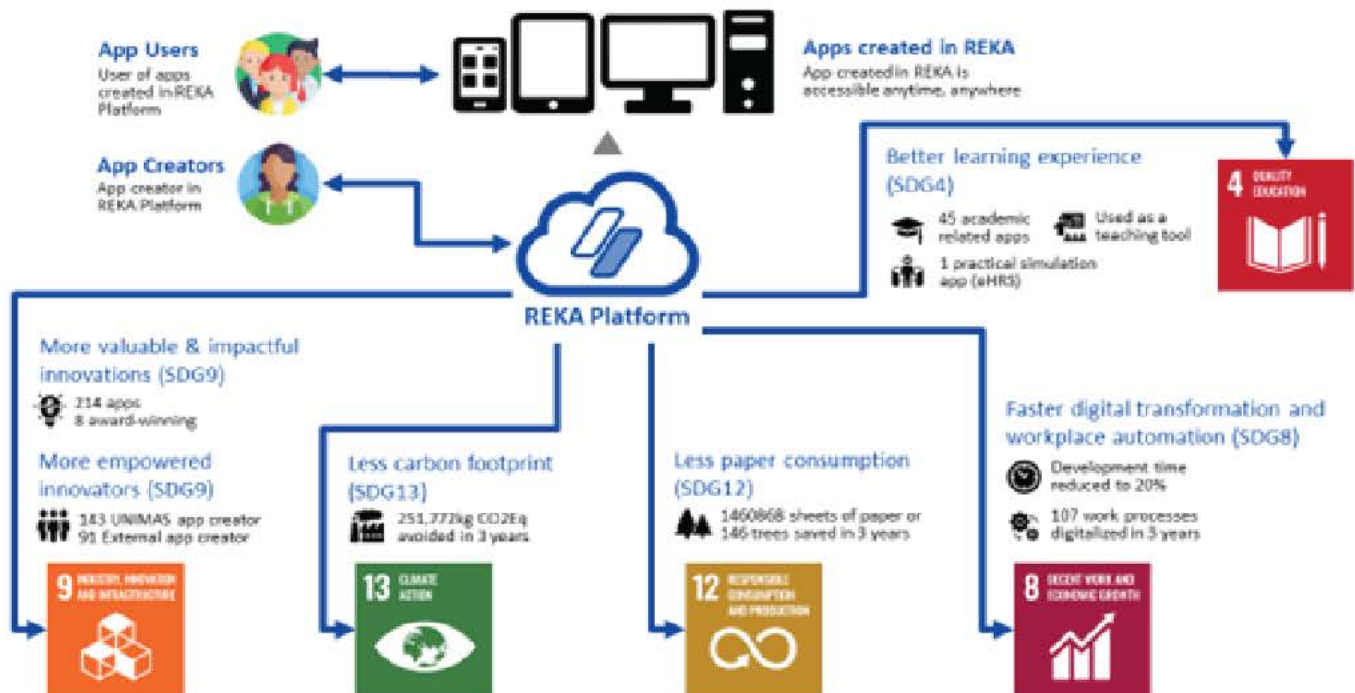


Developing digital technology requires advanced technical skills, and proper deployment requires resources, time, and effort. As technology evolves, it must adapt to the user's needs and requirements. Rapid digitalisation requires additional server resources which results in a significant increase in energy consumption, which can be difficult to manage.

REKA is an online application development platform that uses metadata and the building block approach for application development. REKA consists of three main components:

1. The web-based visual editor,
2. The synthesise engine that transforms metadata into a fully unctional application, and
3. The app runner that executes the application.

REKA's building block approach helps lower the learning curve. Common functions are predefined in blocks that the application creator can select and apply to their application. The use of metadata eliminates the need for conventional deployment tasks. In addition, metadata abstraction also reduces reliance on the underlying technology and allows the application to evolve seamlessly through centralised updates. The multi-tenant architecture enables sustainable use of servers and energy through resource sharing.



REKA

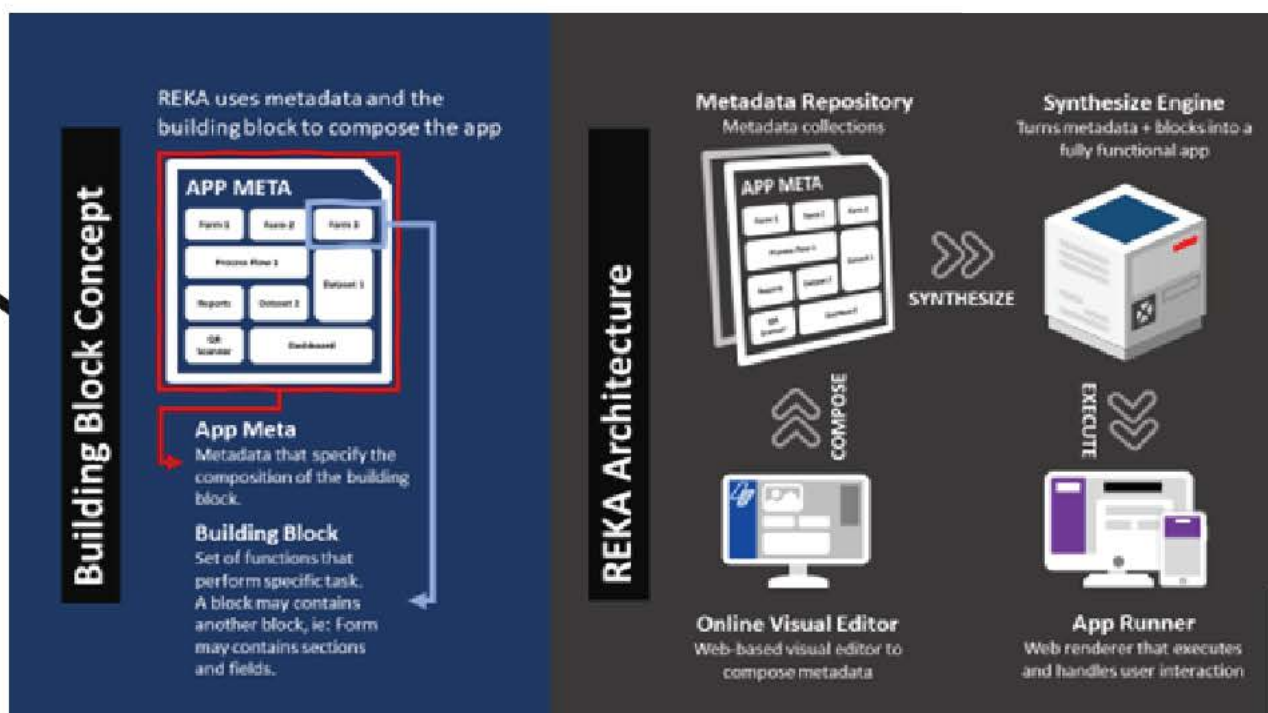
The development of REKA has accelerated UNIMAS' digital transformation. Since 2019, REKA has digitalised 107 work processes and cut the development time by 60-80%, depending on the complexity of the application. The quality of digital innovation has also improves, as evidenced by the internal and external innovation awards for REKA-based applications. Currently, there are 214 applications created by 143 application creators in UNIMAS, consisting of IT and non-IT students and staff. In total, applications built with REKA have reached 51,314 unique users.

More importantly, REKA offers a quicker response to changes in user needs. This is proven by the rapid application deployment during the Movement Control Order (MCO), due to the frequent changes in standard operating procedures. In terms of ICT infrastructure, REKA enables sustainable use of server resources and energy. By sharing resources, all applications run on a single server, significantly reducing carbon footprint by an estimated 251,722kg CO2Eq in the span of 3 years.

The reach of REKA has expanded outwards. REKA has been utilised for innovative commercial products for agencies such as Public Works Department (JKR) Malaysia, Lembaga Boya dan Api Jabatan Laut Malaysia (Sarawak), Housing Development Corporation, Majlis Perbandaran Kota Samarahan, and Sarawak Skills (a higher learning institution).

REKA has received several awards, namely a Silver Award at the Sarawak Invention, Innovation and Design Expo (SIIDEx) 2019, a Gold Award at INOVASI@UMT 2021, and a Special Award at Majlis Anugerah Gemilang UNIMAS 2021 for IT innovation.

REKA has improved the IT industry by democratising digital innovation. It gives innovators access to a development tool to create much-needed applications that add value to their work and their own skills. Through REKA, everyone – regardless of their technical abilities – is able to be part of a global and sustainable digital innovation.



Portal Staf UNIMAS telah dilancarkan pada 15 September 2022 yang lepas. Portal Staf UNIMAS merupakan sebuah projek yang dibangunkan bagi menggantikan peranan ehcm.unimas.my (EHCM), selaras dengan proses rekayasa semula (reengineering) sistem EHCM. Namun, pembangunan projek ini juga turut mengambilkira kandungan di dalam <https://theuniversity.unimas.my> (Portal UNIMAS) untuk diserapkan. Selain daripada itu, projek ini juga bertujuan untuk meningkatkan prestasi capaian ke fungsi sistem dan mengukuhkan keselamatan data serta sistem dengan penggunaan teknologi terkini.

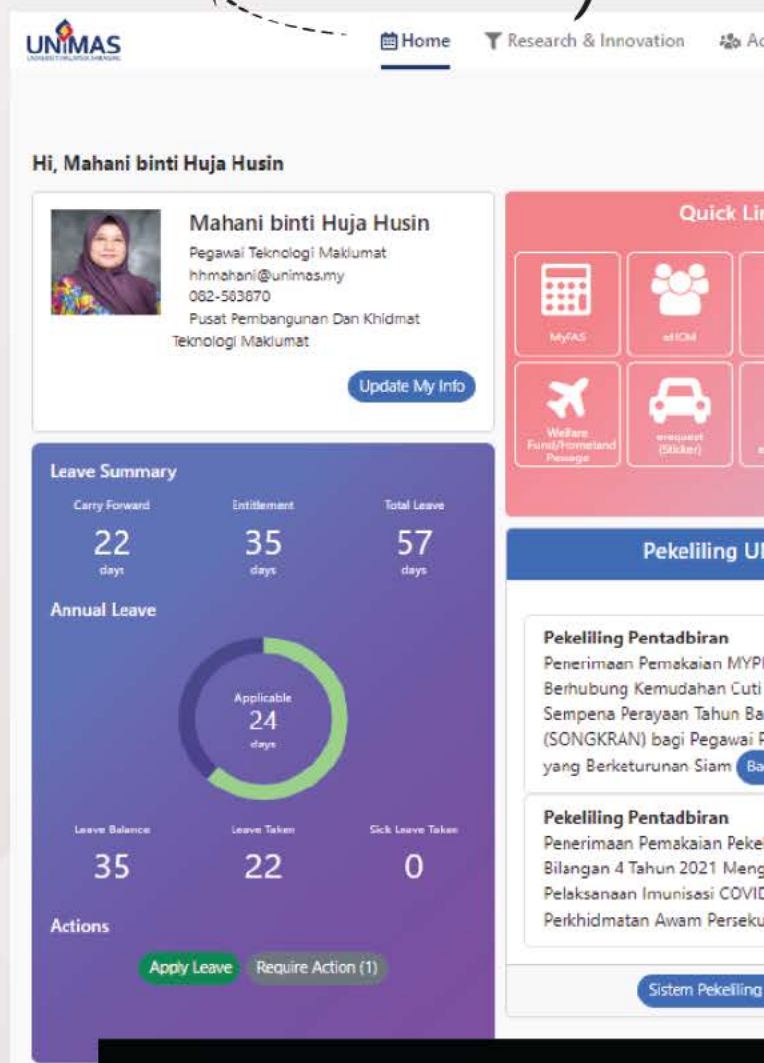
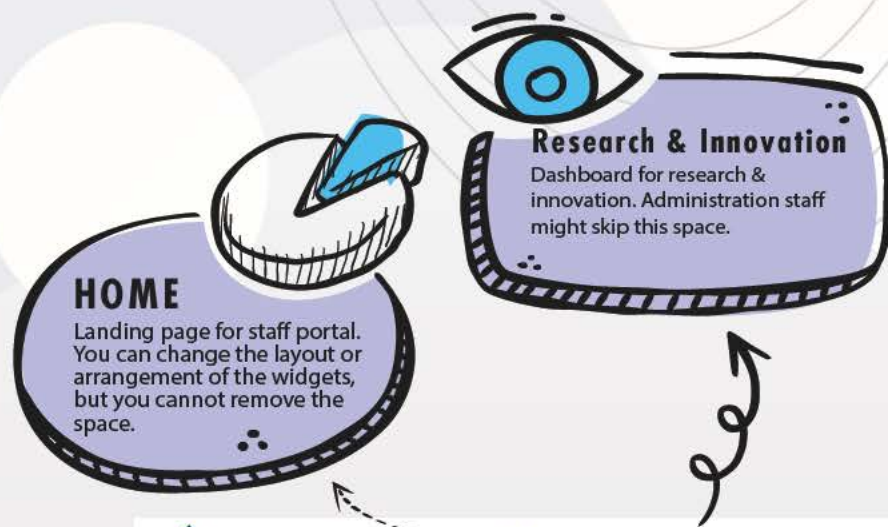
Ciri-ciri Portal Staf UNIMAS

Portal Staf UNIMAS akan menjadi saluran utama kepada semua aplikasi perkhidmatan berkaitan staf. Ia bertujuan membantu staf dengan menyediakan capaian aplikasi perkhidmatan secara berpusat.

Portal Staf UNIMAS mempunyai tiga ciri utama iaitu *Portal*, *Space* dan *Widget*. Portal merupakan paparan utama bagi Portal Staf UNIMAS. Paparan Portal akan dibahagikan kepada *Spaces* yang telah dikategorikan kepada *Home*, *Research & Innovation*, *Academic Matters* dan *Management Matters*. Selain itu, *Widgets* turut disediakan di setiap *Space*.

Pengkelasan *Space* dibuat mengikut nama yang telah diberikan. *Space Home* akan memaparkan widget yang umum untuk semua staf dan ianya tidak boleh diubah. *Space Research & Innovation* pula akan memaparkan maklumat berkaitan penyelidikan dan inovasi. Manakala *Academic Matters* akan memaparkan maklumat berkaitan hal-ehwal akademik. *Management Matters* pula akan memaparkan hal berkaitan pentadbiran.

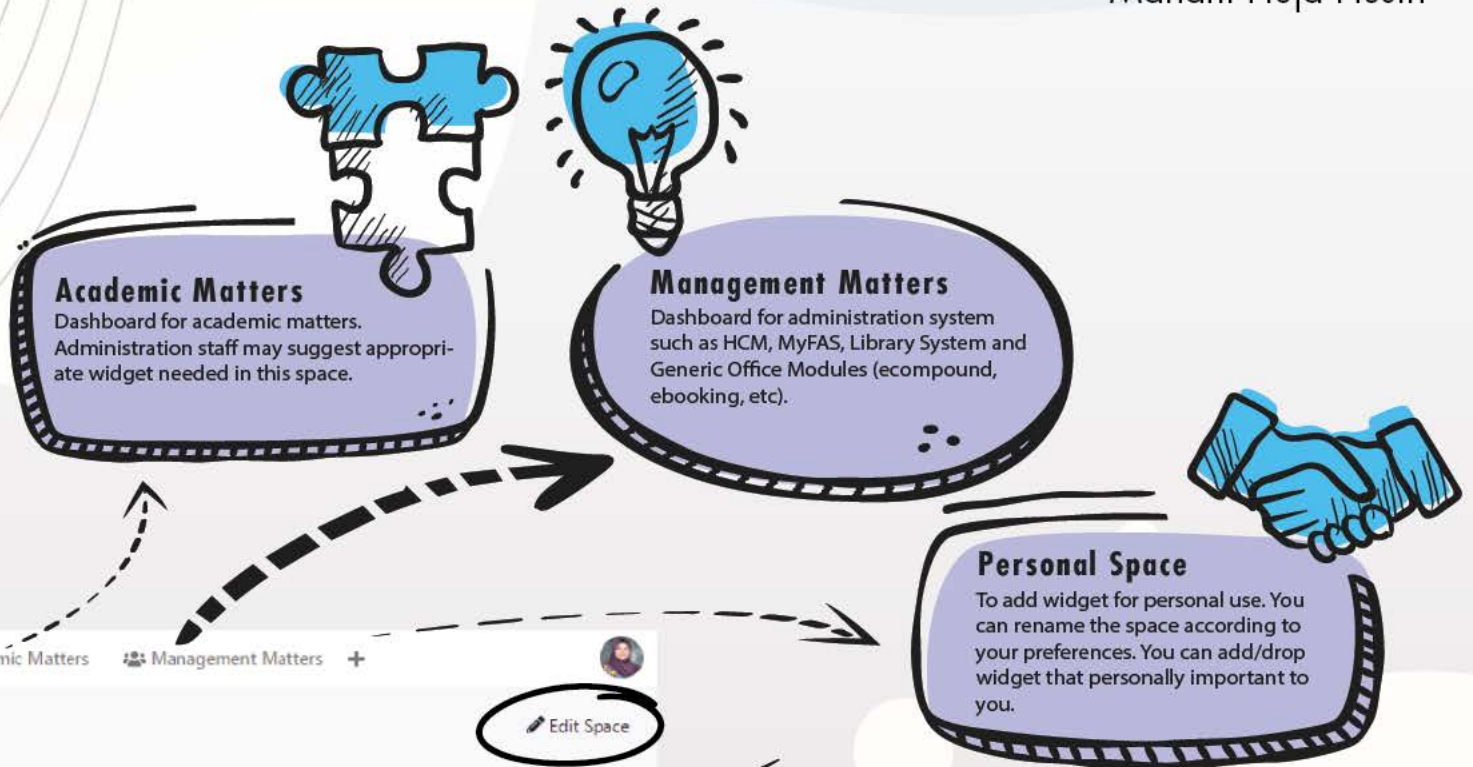
Sebagai tambahan, terdapat juga fungsi khas untuk pembangun sistem, iaitu *Developer Page*. *Developer Page* adalah merupakan capaian yang diberikan kepada pembangun sistem untuk membuat penambahbaikan dan pengubahsuaian kandungan Portal Staf UNIMAS.



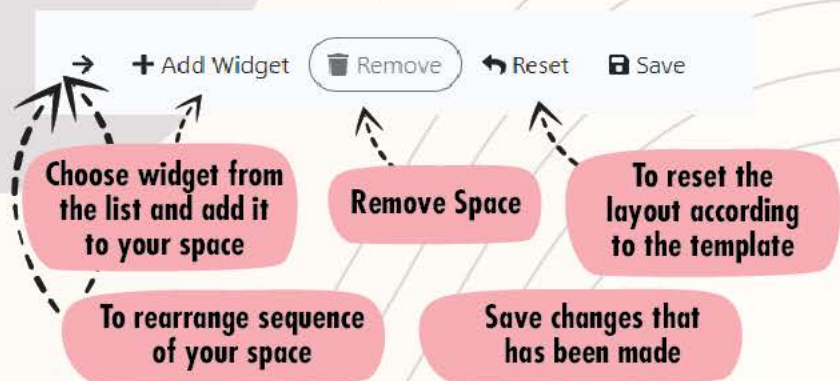
<https://staff.unimas.my>

EDIT & REARRANGE YOUR OWN SPACE

by,
Mahani Huja Husin



EDIT SPACE



VC Message

The speed at which industry and the global community is evolving presents a distinctively complex challenge for education. As global boundaries further crumble, the spectrum and complexity of the challenges that arise today requires individuals who are well exposed to the different fields of knowledge and are able to actively adapt to the fast changing environment. Strategically located in the state of Sarawak, UNIMAS is in an ideal position to offer its students an enriching experience

KUCHING WEATHER 27°C scattered clouds

Fri	Sat	Sun	Mon	Tue	Wed	Thu
27°C 22°C	29°C 22°C	29°C 24°C	28°C 24°C	25°C 24°C	25°C 23°C	31°C 23°C

Please provide some feedback on your experience. Thank you.

[Give feedback](#)

Any Enquiries?

Contact us at:
UNIMAS Support,
ICT Helpdesk or,
Feedback For- Located at the Home Space



HORROR BOX

Collegiality @Work

Bahagian Pusat Data (BPD), CITDS dan Bahagian Keselamatan UNIMAS telah bersetuju untuk bekerjasama dalam meningkatkan keselamatan dan kesinambungan Pusat Data UNIMAS. Melalui inisiatif ini, skrin pemantauan suhu diwujudkan dan ditempatkan di tepi pintu kaca agar boleh dilihat dari luar.

Peninjauan suhu berkala dijalankan oleh Bahagian Keselamatan semasa menjalankan rondaan keselamatan.

Inisiatif ini merupakan langkah proaktif untuk menangani masalah gangguan bekalan elektrik dan masalah kegagalan penghawa dingin. Sebarang gangguan dapat ditangani dengan pantas dan tuntas jika makluman awal disalurkan kepada pihak BPD dan Bahagian Aset untuk memastikan perkhidmatan ICT tidak terganggu.

oleh,
Bahagian Pusat Data



TAKE A BREAK

Hari berganti hari, bulan berganti bulan dan tahun berganti tahun, tanpa kita sedar sungguh pantas masa berlalu. Niat di hati sentiasa merancang, mulut pula sentiasa menyebut, bilakah nak outing bersama-sama ahli BAP?

Perancangan selama 2 bulan program BAP *FunTimes Focus - Take A Break With BAP* akhirnya terlaksana. BAP *FunTimes Focus* merupakan satu program luar waktu pejabat yang diwujudkan khas untuk ahli Bahagian Aplikasi Pentadbiran (BAP), CITDS. Fokus utama program ini adalah santai untuk berehat, berseronok *work-stress-free*. Ia telah dihadiri oleh seramai 8 orang ahli Bahagian Aplikasi Pentadbiran dan seorang pelajar latihan industri pada 13 – 14 Ogos 2022 di SB Sunset, Kuching.

Selain untuk meraikan pelajar latihan industri, saudara Wan Rizamie bin Wan Arman bersama BAP, objektif utama BAP *FunTimes Focus - Take A Break With BAP* adalah:

- Menjadi wadah untuk berkumpul dan merapatkan hubungan antara ahli.
- Menjadi salah satu platform utama kepada ahli BAP untuk mengambil bahagian dalam merangka dan menghasilkan program.
- Memupuk semangat kerjasama di antara ahli BAP.

Sebut sahaja *outing weekend* semestinya semua mengimpikan aktiviti yang seronok, santai, relax



dan ada sukaneka. Team Kebajikan yang ahlinya merupakan ahli BAP sendiri telah menyediakan susunan aturcara yang menarik untuk semua. Bermula dengan minum petang bersama, aktiviti penyediaan makanan untuk makan malam secara bbq pada hari pertama.

Acara makan malam turut diselitkan dengan ucapan daripada Ketua Bahagian BAP, Cik Mahani Huja Husin, sambutan harijadi bulan Ogos untuk saudari Roziah Sakup dan saudara Wan Rizamie bin Wan Arman berserta penyerahan cenderahati kepada semua ahli BAP. Paling menyeronokkan ialah aktiviti permainan. Tidak sah rasanya aktiviti tanpa permainan ini, dan masing-masing menunjukkan kehebatan demi meraih kemenangan.

Hari kedua pula menyaksikan ahli BAP bergotong-royong menyediakan juadah sarapan pagi sebelum memulakan aktiviti sukaneka. Memang awesome! Permainan seperti *dodgeball*, lontaran kasih, keretapi choot-choot, kembarku dan *run for your life* sudah cukup menghiburkan semua dengan gelagat dan telatah masing-masing.

Aktiviti berkumpul sebegini dapat memupuk semangat kerjasama di kalangan ahli BAP. Program ini berakhir dengan semua ahli BAP meninggalkan SB Sunset dengan seribu satu kenangan manis dan semangat yang membara untuk kembali ke pejabat.

oleh,
Hazrinda Hussien Ali



APEL.A AND APEL.C

The Accreditation of Prior Experiential Learning (APEL) is a systematic process of identification, documentation, and assessment of prior experiential learning to determine the extent to which an individual has achieved the desired learning outcomes, for access to a programme of study and/or award of credits.

APEL.A

- Providing opportunities and access to individuals who have previous learning experience but lack qualifications or no academic qualifications to continue their studies at Higher Education Providers (PPT).
- For now, APEL.A is only applicable for applicants who are applying into T-3 (Certificate), T-4 (Diploma), T-6 (Bachelor's Degree) and T- (Master's Degree).
- Applicants can apply for APEL.A through MQA's website and choose UNIMAS as the assessment centre. Once approved, the applicants can register at <https://apel.a.unimas.my>.

APEL.C

- Learning assessment process (informal and non-formal) of an individual is based on accumulated experience (knowledge and skills) to obtain credit transfer for courses in the enrolled program.
- The applicants must register as UNIMAS student first before they can apply for APEL.C at <https://sppweb.unimas.my/apelcform>.

The applicants can visit <https://www.pppa.unimas.my/pages>, for more information regarding APEL.

by,
Bahagian Aplikasi Akademik

REVOLUSI DIGITAL KESELAMATAN FIZIKAL

Bahagian Keselamatan ICT (BKICT), Pusat Pembangunan dan Khidmat Teknologi Maklumat (CITDS) berperanan sebagai bahagian yang bertanggungjawab dalam menyediakan dan mengurus infrastruktur ICT yang menyokong kepada aktiviti keselamatan di UNIMAS.

Dalam memastikan keselamatan fizikal ini mencapai tahap yang diperlukan, suatu projek Sistem Door Access telah dilaksanakan bagi memenuhi keperluan UNIMAS khususnya untuk Bahagian Keselamatan UNIMAS. Sistem ini diperlukan bagi meningkatkan kawalan keselamatan fizikal di UNIMAS dengan lebih ketat dan sistematik. Dengan pelaksanaan projek ini sejak tahun 2005, banyak naiktaraf dan penggantian perkakasan telah dijalankan.

Semasa projek ini dilaksanakan, sistem tersebut telah dinaiktaraf kepada *Centralised Management System* yang menggabungkan sistem CCTV dan Access Door. Kedua-dua sistem tersebut kini dapat ditadbir bersama secara berpusat. Sebanyak kira-kira 232 unit door access baharu telah dipasang atau dinaiktaraf sepanjang projek tersebut dilaksanakan. Dengan adanya sistem ini, ia telah meningkatkan keberkesanan operasi kawalan premis oleh Bahagian Keselamatan UNIMAS.

Projek ini melibatkan 4 lokasi utama di UNIMAS meliputi fakulti-fakulti seperti Fakulti Kejuruteraan (FK-ME), Fakulti Sains Teknologi Sumber (FSTS), Pusat dan pejabat pentadbiran UNIMAS seperti Pusat Pembangunan & Khidmat Teknologi Maklumat (CITDS), Perpustakaan Tun Abdul Rahman Ya'kub (PeTARY) dan Canselori UNIMAS. Sistem-sistem tersebut menggunakan pengesanan cap jari dan *mifare card*. BKICT turut menggunakan teknologi terkini iaitu sistem pengesanan wajah untuk bangunan Tun Abang Haji Openg Digital Centre (TAHODC).

oleh,
Abang Kushairi bin Abang Bohari



UNIMAS Teaching Hospital: Creating an icon

We are all proud to finally have our own hospital!

The CITDS ICT team is working diligently to ensure that the hospital is built according to the needs of the future. We make every effort to guarantee that each and every room in the hospital is equipped and provided with sufficient infrastructure for the hospital to operate smoothly once it starts operating.

The UNIMAS Teaching Hospital will be equipped with state-of-the-art technology, including facial recognition, to ease and expedite the registration process. We also provide professional advice on the working processes that involve queue management and the hospital information system.

In addition, the hospital will provide kiosks for self-registration, where returning patients are no longer subjected to a tiresome registration process. Contactless payment will be applied, assuring no more cash (and germ) exchanges – just tap and go.

To accomplish these goals and more, our ICT team works closely with the medical team. The journey has its challenges, but it is definitely a fulfilling one!

by,
Angelia Lim Ann Chee

Wi-Fi UNIMAS

Sejajar untuk mencapai hasrat ke arah kampus pintar, UNIMAS terus memberi komitmen dan sentiasa menyediakan keperluan secukupnya bagi menyokong infrastruktur dan kemudahan ICT universiti.

Keperluan ini telah dirancang di dalam Pelan Strategik ICT 2021-2025 di bawah TERAS STRATEGIK 1: Kelestarian Infrastruktur ICT dan Keselamatan Siber.

UNIMAS menggunakan beberapa sistem Wi-Fi seperti Ruckus, Aruba, UBNT dan Engenius. Secara keseluruhannya, terdapat 1,581 unit peranti capaian Wi-Fi (AP) yang telah digunakan setakat Februari 2022; atau 87.11% daripada jumlah keseluruhan keperluan UNIMAS Smart Campus iaitu 1,815 unit.

UNIMAS telah menyediakan semua lokasi berpenghuni dengan bilangan *access point* (AP) yang cukup. Walau bagaimanapun, kekuatan isyarat masih belum mencukupi untuk menampung keperluan semua pelajar terutamanya di kolej-kolej kediaman. Perolehan tambahan AP baharu sedang dilaksanakan dan proses penempatan semula lokasi AP juga diteruskan bagi mencapai keputusan yang optimum

Penggantian dan perluasan Wi-Fi ini adalah untuk,

- Menyokong ketetapan Majlis e-Pembelajaran IPTA Malaysia (MEIPTA) iaitu 1Mbps bagi setiap pelajar
- Penambahan AP mengurangkan titik buta Wi-Fi.
- Kemudahan jalur lebar 8Gbps dapat lebih dimanfaatkan
- Menyokong inisiatif kampus pintar

oleh,
Bahagian Pembangunan Rangkaian dan Operasi

SUCCESS STORIES

*by,
Alhadi Bujang*

Charting the Future of Livestreams with MultPLS

The pandemic has triggered a surge of demand for livestreaming of events. An event livestream, be it a conference or a concert, would look good when shot with more than one videos' angles. It is better if there is a dedicated video camera that follows a speaker (or a performer) around. These multiple-angles, combined footages are far more interesting compared to single-angle footage. It also provides a more immersive experience for online viewers as they are able to watch the unfolding event.


At least, in theory.

In reality, a livestreaming session typically uses a motorised conference camera or a production video camera. Both cameras have their limitations in terms of their usage during dynamic hybrid events, which include the movement flexibility and slow motorised reaction that results in restricted camera views. There is also a limited number of this type of cameras, especially when more than one event are running simultaneously or are conducted back-to-back in separate venues.

Adopting a business unusual approach, we have tested the viability of using cameras that are the most accessible to everyone with no additional cost which are mobile phones! Most mobile phones nowadays can produce high quality, high-definition videos at a minimum of 720p, and the videos can be easily transmitted to a host laptop via a specially set up local area network (LAN). To ensure security and uninterrupted connectivity, the team set up an exclusive plug-and-play Wi-Fi access point (AP) for this.

The result is a method that is known as MultPLS (Multi-phone Livestreaming).

The experimenting started in 2021, we discovered that MultPLS allows flexibility of movements, which means many event activities can be captured. The livestreams show different points of view, creating more captivating footage and no additional purchase of new production video cameras needed. By considering the need for digital content, this approach can also be used for livestreams from almost any location if the team can connect the bespoke AP to any available internet line.



Along the way, MultPLS has gained recognition:

1. Pertandingan Kumpulan Inovasi & Kreatif (KIK) 2021 (EMAS) Pembentangan Kajian Kes KIK Case Study - Looking Outside the Lens 2021.
2. Konvensyen Kumpulan Inovatif dan Kreatif Universiti Awam ke -16 anjuran UTHM. Multi-Phone Live Streaming (MultPLS) - Anugerah Perak 2022.
3. Borneo Innovation Festival (ICT & MULTIMEDIA CATEGORY) (EMAS) 2022.
4. Paper published in The Southeast Asian Conference on Education Conference Proceedings, 10th April 2023.

We look forward to more creative uses of MultPLS.



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Image and graphics designed using resources from [freepik.com](https://www.freepik.com)





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