#### **Instant MMLS Notifications**

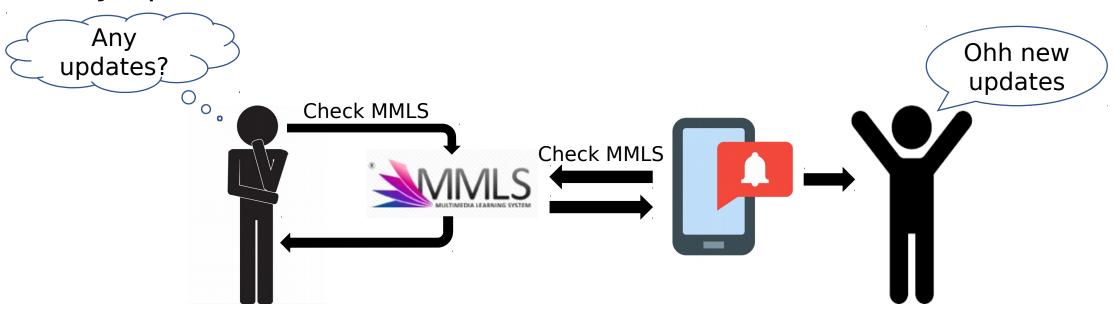


#### Why IMN? Why Notifications?

### People want to know when something new happens that affects them

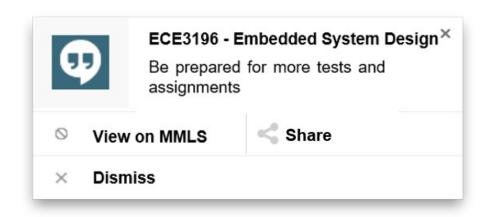
- Class cancelled
- Assignments
- Test results
- Lecture notes, tutorials
- Any updates

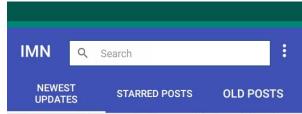
You didn't check MMLS?



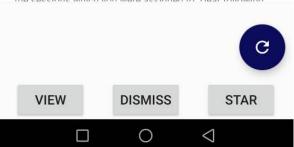
#### Features

- 1. Periodically check for updates
- 2. Share on social media
- 3. Offline mode Store data on local device
- 4. 'Star' Important Posts
- 5. Search and Sort





Cost Spectrophotometer for Nanoparticles based Thin Film as attached. Thanks. Dear students, Lab replacement due to clash is subjected to lab session availability (first-come, first-serve basis). If you need me to support your lecture/ tutorial class exemption to attend our lab, please email me before 21 December 2018. In your email, please print screen your official timetable and briefly describe your situation. Please state your full name, student ID and the date of your original lab session as well. Thank you, ATTENTION: INTERNATIONAL STUDENTS UPDATE FROM IMMIGRATION DEPARTMENT: NO SPECIAL PASS FOR RENEWAL PROCESS Please be informed that Immigration Department will no longer issue a Special Pass while renewal of student pass is being processed. Therefore, students are reminded to submit complete renewal documents 3 MONTHS BEFORE THE EXPIRY DATE OF THE CURRENT STUDENT PASS. You will have to exit from Malaysia if your renewal process is not complete BEFORE your current student pass expiry date. Please refer to VISA UNIT for further guidance. Thank you. Dear students, Kindly refer attachment for the material in order for you to prepare for your lab experiments. The lab sheet (pdf & doc versions) and lab software are attached. Your are required to open up the lab sheet through MMLS or bring your own lab sheet print out (if you prefer hardcopy) during your lab. Software: Please go through your lab sheet and try out the examples at home before attending lab. The lab will start very soon. All students, especially the ones who were assigned for the first lab session MUST NOT miss the sessions which you were assigned to Dear following



#### Arising Problems

Authentication into MMLS

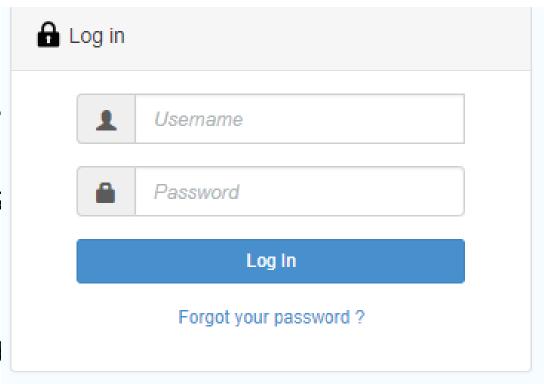
To obtain information of students current course of study, our apps must have the ability to log in into the MMLS homepage. 3rd party access constraint]

Data display

From web scraping of the student's MMLS page, the data obtained is unstructured and is in unpresentable form.

Converting Java programs into Android apps

With all the functionality and data formed through Java script, the difficulty faced during the integration into multiple XML files



#### Solutions to overcome

Authentication into MMLS

Generate the required login headers for the POST form to obtain the session cookies and login token

Data display

Using Jsoup, open-source Java library designed to parse, extract, and manipulate data stored in HTML documents.

Converting Java programs into Android apps

Multiple tedious and strenuous steps to be taken to define the user interface in XML, access and process the data in the user interface controls.



# Project Member's Roles

Project Manager

**Project Planner** 

Sales Engineer Role

Product Owner

Software Develope r

#### Project Manager

- General project administration.
- Progress and resource monitoring.
- Overseeing the production and development of project deliverables.
- Acquiring support and advice to further enhance project output.
- Host and conduct meetings

#### Project Planner

- Planning timeline of the project.
- **Estimate resources** required by the project and the members
- Joint management duties along with the Project Manager
- Identify specific activities that is required to be performed during the project.
- Drafting of the software development model

#### Sales Engineer

- Analyze and identify business requirements.
- Perform estimates on project costs
- Analysis on the cost-benefit ratios
- Obtain acceptance by means of presentation or demonstrating to the end-users
- Prepare sales report by collecting and processing the information acquired from the project

#### Product Owner

- Analyze market trends and provide suggestion to the team.
- Communicate with the end users of the production.
- Maintain communication with the stakeholders of the product.
- Provide insightful feedback to the project team
- Aiding the team to continuously improve their methods.

## Software Developer

- Designing the flowchart and the design block diagrams of the product
- Implementation of the software architecture in code set forth by the project members.
- Provide insights regarding the technicalities of the implementation of the ideas onto code
- Combining the elements and modules to perform testing and verification.
- Ensure the **adaptability** and **flexibility** of the program.

## Software Developer

- Ensure quality of the project through extensive testing and feedback.
- Develop methods and functions to aid the development process
- Maintain and produce quality software.
- Maintain excellent version control of software
- Documentation to the software.
- Provide feedback on the process and product of the project through auditing.

#### Showcase of App

