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Origin Integrated Studios

THE OFFICIAL NEWSLETTER

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www.originistudios.com | sales@originistudios.com

Our Recent Deployments

We have just successfully deployed Origin HIS & CIS to...



1

Sunway Home Healthcare offers qualified and experienced medical professionals who provide support and nursing care in the convenience and comfort of patients' homes.

2



Beacon TCM offers the community a venue to experience a wide range of Traditional Chinese Medicine (TCM) services encompassing herbal medicine, acupuncture, moxibustion, cupping therapy, Guasha, foot bath, and Tuina.

3



Premier private hospital in Malaysia providing outstanding medical care & built patient-oriented culture and committed to clinical excellence.

4



Dedicated to show the love and healing ministry of Christ by providing inclusive, proficient & outstanding healthcare for all.

Origin CSR

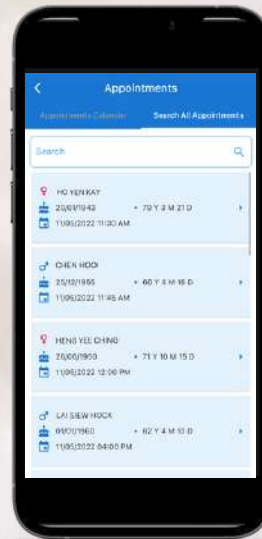
*We are grateful for everything we have achieved so far
& decided to give back for those who is needed.*





RELEASE HIGHLIGHT

DOCTOR APP



DASHBOARD MODULE

Broad overview of the Doctor App which consists of appointment of the day, total outpatient, total inpatient & pending doctor approvals on medical tasks

APPOINTMENT MODULE

Calendar view of all appointments and OT bookings. Allows doctor to scroll through existing appointments and access individual Patient Profile

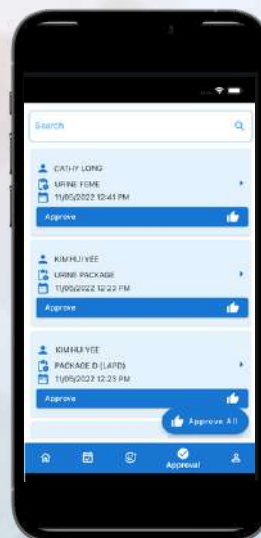
OUTPATIENT MODULE

Show list of outpatients and their status. Red highlight appears when the doctor is late by more than 30 minutes based on given appointment time.



INPATIENT MODULE

Show list of current inpatient medications in details which include medication name, form, route, dose, frequency & duration.



APPROVAL MODULE

Show list of tasks that are pending doctor approvals, it can be approved individually or approved all at once

HOME NURSING APP

1. Dashboard Module

The dashboard shows a cumulative count of all appointments of the day. It is reflective of all appointments set within the core rostering module for all staff within the team

2. Appointment Module

This calendar view of all appointments provides a quick gauge of upcoming engagements. Patient information for existing appointments are also listed below individually

3. Appointment Checklist

A checklist of tasks can be created as a work guide for the team going on-site. Caregivers can create, modify and update all tasks up until the visit has been ended

4. Appointment Progression Note

The in-app progress note feature allows clinicians to type in progress notes on-site at point of care. This can assist to enhance progress note accuracy. Similarly, caregivers can create, modify and update notes up until the visit has been ended





Software Engineering in the healthcare tech space – An outsider’s perspective

By Erin Lee & Ng Shien Wee

In this newsletter, we put on a developer’s glasses to see, from their perspective, how is healthcare like to people who are clueless about it and what are the challenges for a software programmer in developing healthcare technology.

1. Myriad of Information overlap and exchange appeared

Imagine a hub-and-spoke diagram where the patient is right in the middle with multiple care teams providing services. Typical information exchange will be patient history, vital observations and clinical assessment, investigative results etc. Software developers uphold the responsibility to design different modules which is easy to use and yet able to display necessary synchronized information to allow users to perform their task more effectively. Information transfer via carry forwarding logic and correct data mapping

is also crucial in hopes to reduce human error when transcribing, ultimately ensuring hospital processes are lean and safe. It is always in a developer’s mind that we all work towards one main goal - preserving life.

2. Need of almost-instant communication

During a patient’s journey within the hospital, he or she moves across many departments, ranging from customer service, clinical and non-clinical teams. Communication is always key, and developers understand that it is not always within hospital staff but also to and from patients as customers. Communication breakdown can happen easily especially when the hospital is a highly pressurized workplace, and the core customers are mostly already in a negative mindset. Hence, developers

realize that it is up to the system to cover the communication gaps as much as possible e.g., Communication between doctors and nurses are streamlined and aligned via a shared general notes module. Role-unique modules transferring information to other care teams, pop-up alerts, signals, have slowly become key feature considerations when developers design and program their work. From a software developer's perspective, the job is to make sure the lives of the user become easier, reducing the number of mundane tasks of different users, thus freeing time up for patient care.

3. Current workflow is difficult to change / cannot be changed

Healthcare practices have been long-standing but everchanging. Clinicians have also been known to resist change simply because patient care is priority and any change in their workflow will throw them off track and slow them down. Regardless of the change being positive or negative, it is a norm for anyone to reject it at the first instance. Developers have slowly come to understand that hence the first step of programming healthcare tech is taking into consideration the needs of different care teams and understanding the current workflow. It is the goal of software developers to ensure that the system is be able to cover all the different scenarios that may arise from workflow permutations from different care teams within the hospital.

From a software developer's perspective, healthcare is a huge challenge and deadlines are always pressing. After all, what a user sees on screen could take days to weeks of development and testing to ensure that it simply does what it should. Nevertheless, the mundane coding performed daily makes a big impact to healthcare and that is something which drives the team on daily. ***"Programming for hospitals is a tough challenge, but necessary. And we are far from done"*** says Origin Developer, Wee who primarily does EMR-related modules and device interfacing. As Origin, we can only seek for patience from the healthcare scene as greater things are to come and will be worth waiting for.

To be continued...

"Programming for hospitals is a tough challenge, but necessary. And we are far from done."

Ng Shien Wee