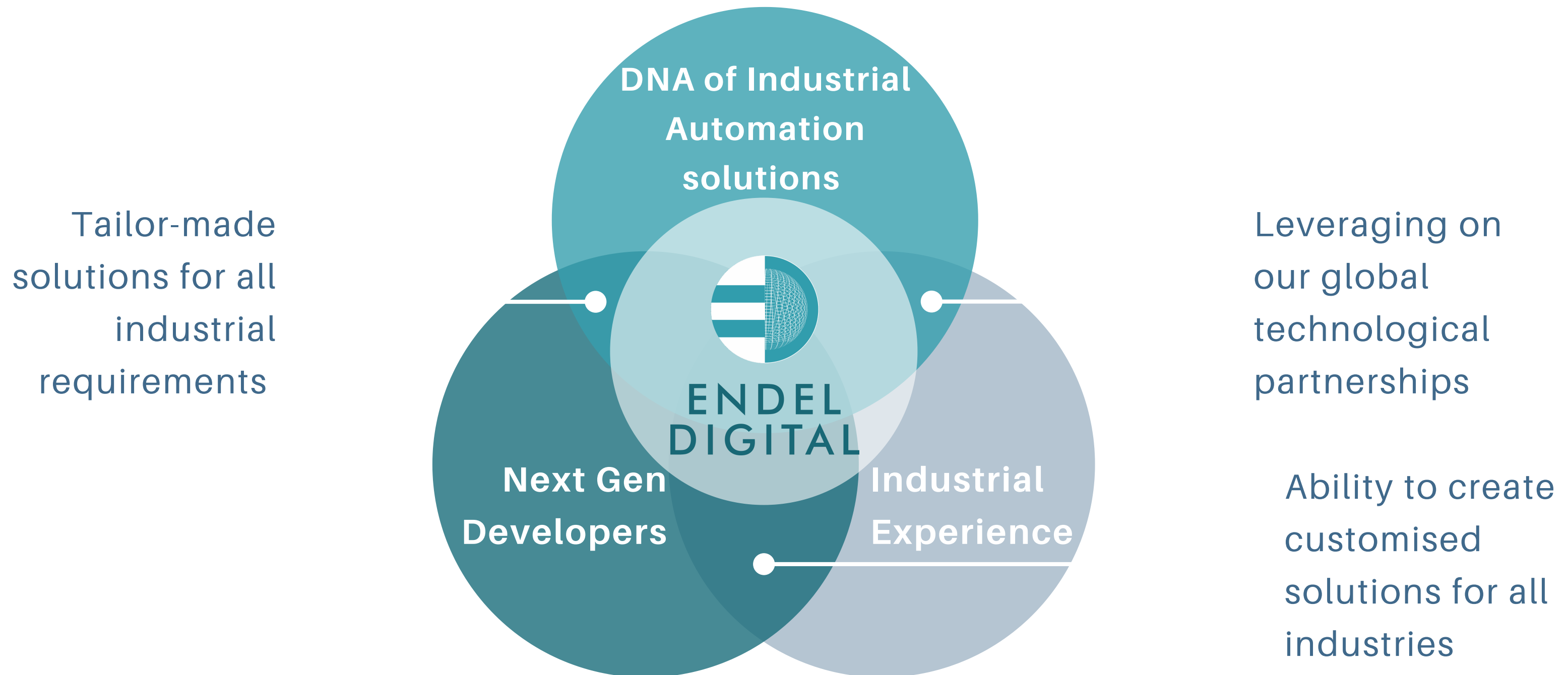# Batch process workflow digitisation

By Endel Digital Solutions

About Endel Digital

Endel Digital is an industrial software solutions provider, having presence in India, Middle East, and Africa with a strong industrial lineage. We offer an array of solutions catering to a wide range of industry requirements by leveraging on its domain competence and partnerships with reputed technology providers.

Tailor-made solutions for all industrial requirements

DNA of Industrial Automation solutions

Leveraging on our global technological partnerships

ENDEL DIGITAL

Next Gen Developers

Industrial Experience

Ability to create customised solutions for all industries

What solutions can we provide for you?

Our experience with a variety of industries and alliances with renowned technological partners, has allowed us to create a variety of solutions that tackle the issues for a number of industrial verticals.

Our solutions can be completely customised to fit your organization's workflow and processes.

Complete weighbridge automation solutions
Weighbridge integration with ANPR, ERP, Cloud, and more.

Laboratory Management Solutions
Digitzation of processes, preventive maintenance, project management, and more.

Batch process automation
Digitizing checklists, worksheets, material issuance notes on a mobile based UI.

Industrial Inventory and Dispatch Management system
Seamless tracking of RFID or NFC Tag based inventory and dispatch management system

Why should you digitize your plant?

01.
Embracing smarter possibilities

02.
Enhancing the workflow of the manufacturing processes

03.
Efficiency of operations and quality assurance

Solution approach for your plant

To start off the project, phase 1 focuses on digitizing the existing workflow

Hosted Environment

Digitize data entry

- Convert all manual forms into digital forms.
- Mobile application-based interface with workflow automation
- Kanban representation for efficient functions

Integrate machines using IIOT

- Integrate data with the help of sensors
- Integrate machine-to-machine communication with RS232 and RS485 interfaces

Provide insight

- Map business KPIs with the application insight
- Implement Business Intelligence dashboards through multi-system integration

Core features and functionalities

Business insights

Custom Dashboards for easy access to critical information, unique KPIs for each user role.

Enhanced Reporting

Custom filtered reports to get complete birds-eye view of all manufacturing operations, in a consolidated manner

Secure Access

Role-based access to ensure that the right persons get access to the relevant datasets

Real-time and accurate

Real-time data visibility, with checks and balances to validate all entries.

Digitizing your processes and workflows

What does our process flow management solution look like?

Ease of use and agile design is at the heart of all our solutions. Our UI is designed in a manner that provides the highest satisfaction to the end-user, whilst the framework can be easily maintained and upgraded as required.

Supervisor User role gets access to assign the batches to respective operators, the system also suggests operators on the basis of their shift timings
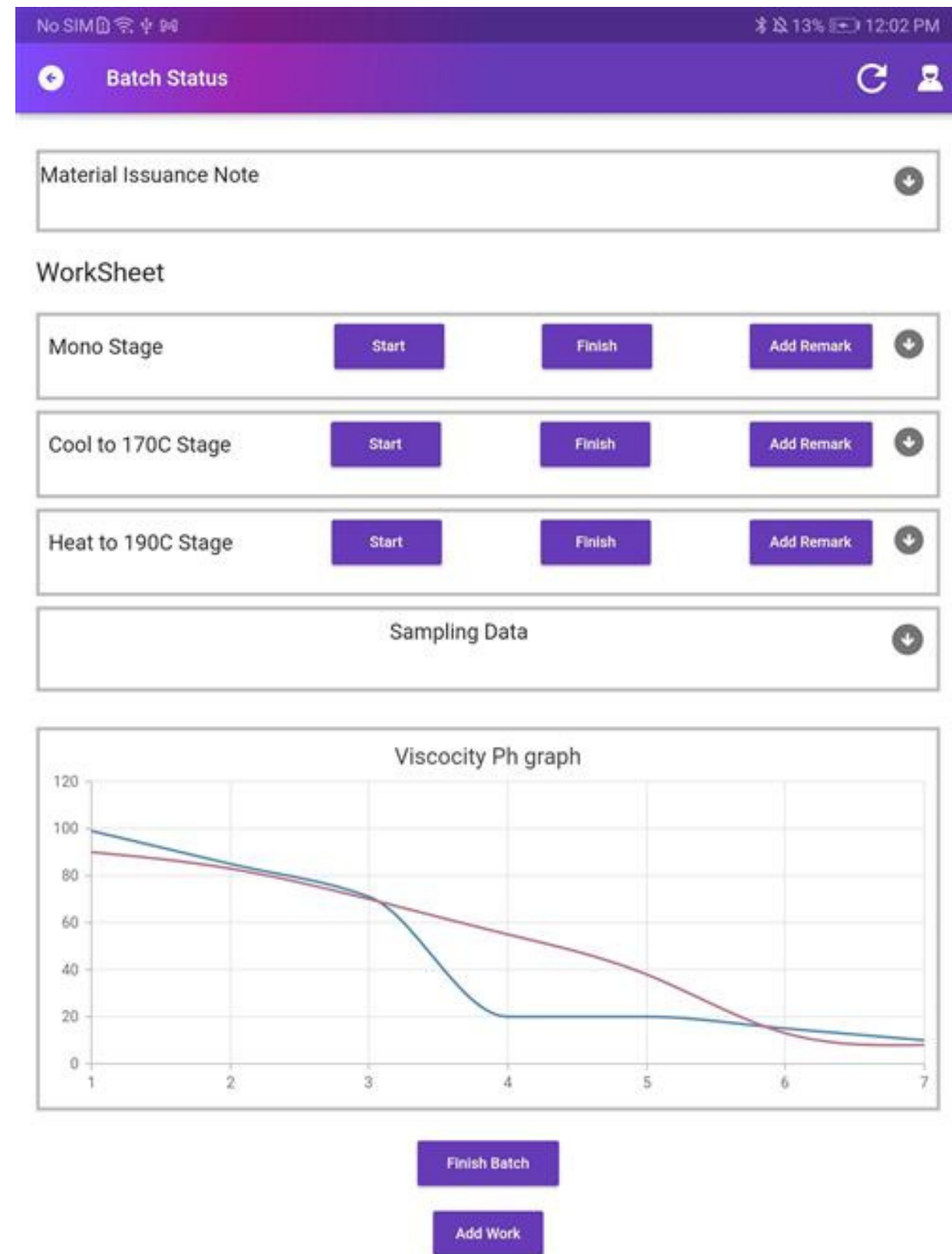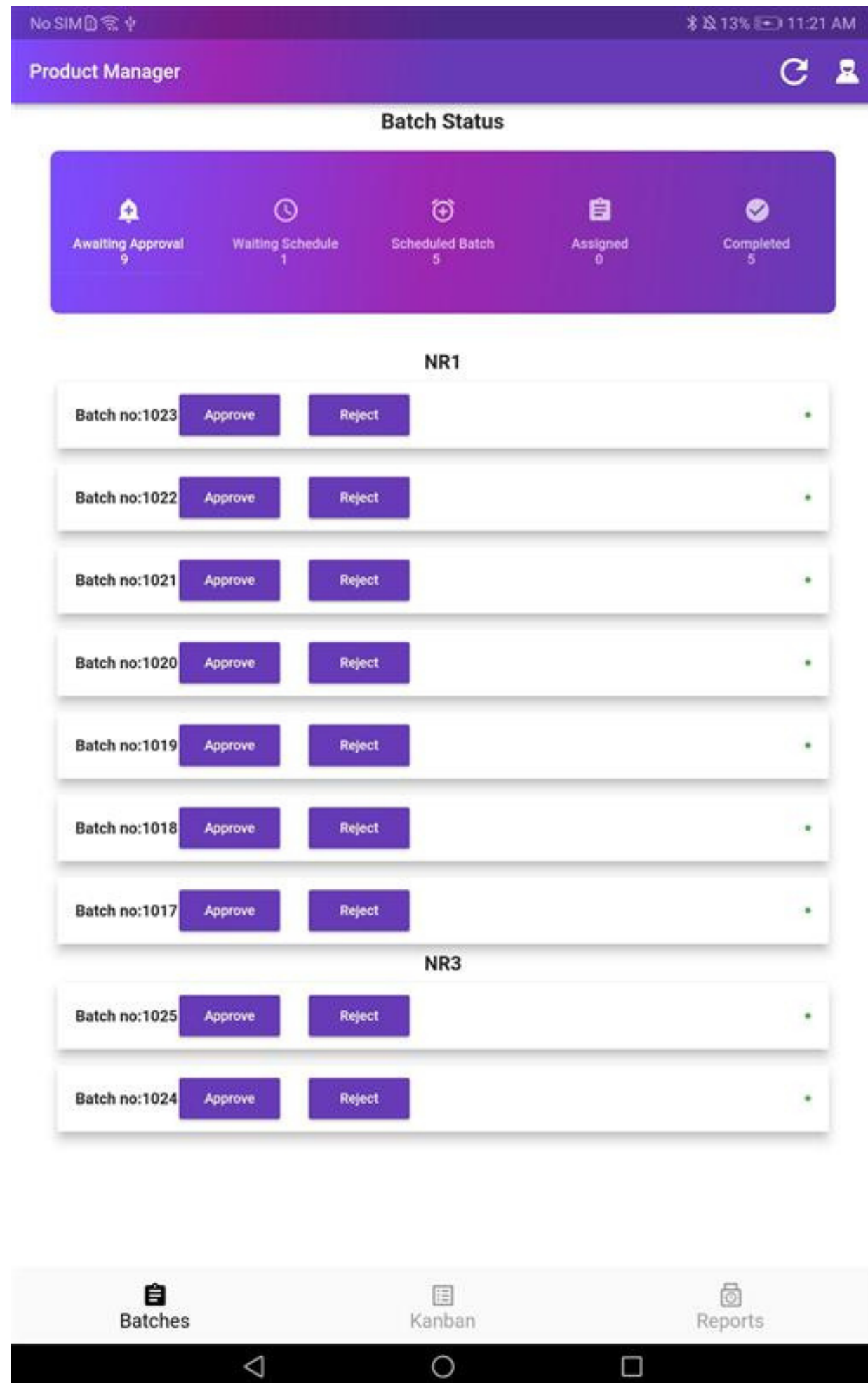
Unique user roles get access to different user rights and actions. Product managers have to approve each batch, they can also view the reports and establish the material issuance notes for each batch and product.

Batch-No = 7412

	Okay	Partially Okay	Not Okay
Control panel display	Okay	Partially Okay	Not Okay
Filling pump	Okay	Partially Okay	Not Okay
Weighing scale	Okay	Partially Okay	Not Okay
Loadcell/display indicatorBag damper	Okay	Partially Okay	Not Okay
Kasuku spannner for removing seals	Okay	Partially Okay	Not Okay
Drum sealing machine	Okay	Partially Okay	Not Okay
Sight glass light	Okay	Partially Okay	Not Okay
Monomer flow meter	Okay	Partially Okay	Not Okay
seperator tank water level	Okay	Partially Okay	Not Okay
speed controller	Okay	Partially Okay	Not Okay
Sampling materials	Okay	Partially Okay	Not Okay
Rope and Sheet gasket	Okay	Partially Okay	Not Okay
Circulation pumps HOB 1	Okay	Partially Okay	Not Okay
Process valves	Okay	Partially Okay	Not Okay
Chain block for dumping	Okay	Partially Okay	Not Okay
Water as raw material for emulsion	Okay	Partially Okay	Not Okay
Steam pressure above 4 bars	Okay	Partially Okay	Not Okay
Rope for tying gunny bags	Okay	Partially Okay	Not Okay
Stop watch and calculator for sampling	Okay	Partially Okay	Not

Checklist Completed

Operators have to fill out the complete checklist before they are allowed to start any batches. The system pushes for mandatory photo snaps of the task. If any errors are detected the supervisor is notified of the same.

Quality Assurance

- Enter TCS%
- ViscoSity
- Appearance
- Colour
- Acid Value
- Ph level
- Film Appearance
- Free Monomer

Stencil Seals Pallet Label

Setting Time Surface Dry Through Dry

Select the area of Sample

Reactor vessel Blender vessel Drum vessel

Select Purpose

Select Product Type

Submit sample

Quality testers have to enter all of the parameters of their sample tests, and relevant validations can be placed for each parameter.

Get in Touch

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