

**Project Title:** Apparel Production Monitoring Application (APMA)

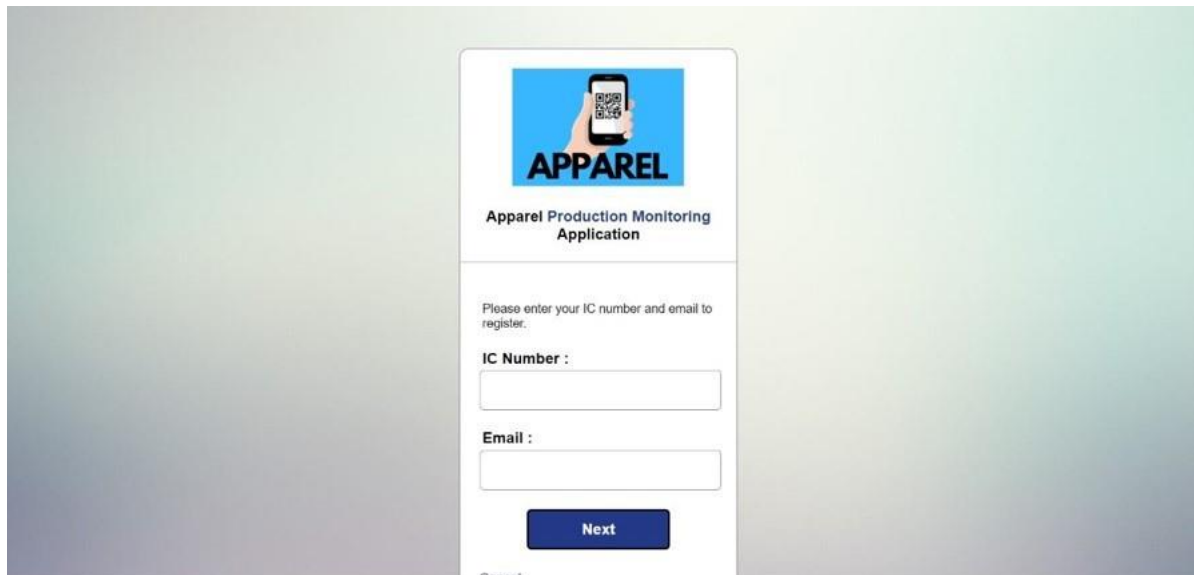
**Description:** APMA is a comprehensive web-based and mobile application developed using PHP and Java, designed to revolutionize apparel production monitoring processes in manufacturing facilities. By seamlessly integrating technology into production management, APMA offers a systematic approach to managing fabric inventory, apparel production status, inventories, and warehouses.

**Key Features:**

- **Employee Management:** Admin can efficiently manage user accounts and permissions, including activation and deactivation of accounts.
- **Fabric Management:** Admin can oversee fabric inventory, generate QR codes for each fabric, and monitor available quantities to streamline production planning.
- **Apparel Management:** Admin can manage apparel records, ensuring availability of fabric for production and maintaining accurate production data.
- **Production Management:** Admin can track production status, receive notifications when targets are met, and monitor progress through visual reports for informed decision-making.
- **Inventory Management:** Admin can manage apparel inventories, track distributions to different warehouses, and maintain optimal stock levels for uninterrupted production.
- **Production Tracking:** Production employees can efficiently track and update the progress of apparel production using the mobile application. By scanning QR codes at each station, they can record production quantities, ensuring accurate monitoring of production activities.
- **Production Notification:** Automated alerts notify admin when production targets are reached, facilitating timely distribution and enhancing overall efficiency.

**Skills:** HTML/CSS, JavaScript, PHP, Java, MySQL

## Screenshots:



The screenshot shows a registration form for the 'Apparel Production Monitoring Application'. At the top, there is a logo featuring a hand holding a smartphone with a QR code, with the word 'APPAREL' in bold black letters below it. The title 'Apparel Production Monitoring Application' is centered. Below the title, a message reads: 'Please enter your IC number and email to register.' There are two input fields: 'IC Number :' and 'Email :'. At the bottom of the form is a blue button labeled 'Next'.

Figure 1: Users need to register using IC number and password.

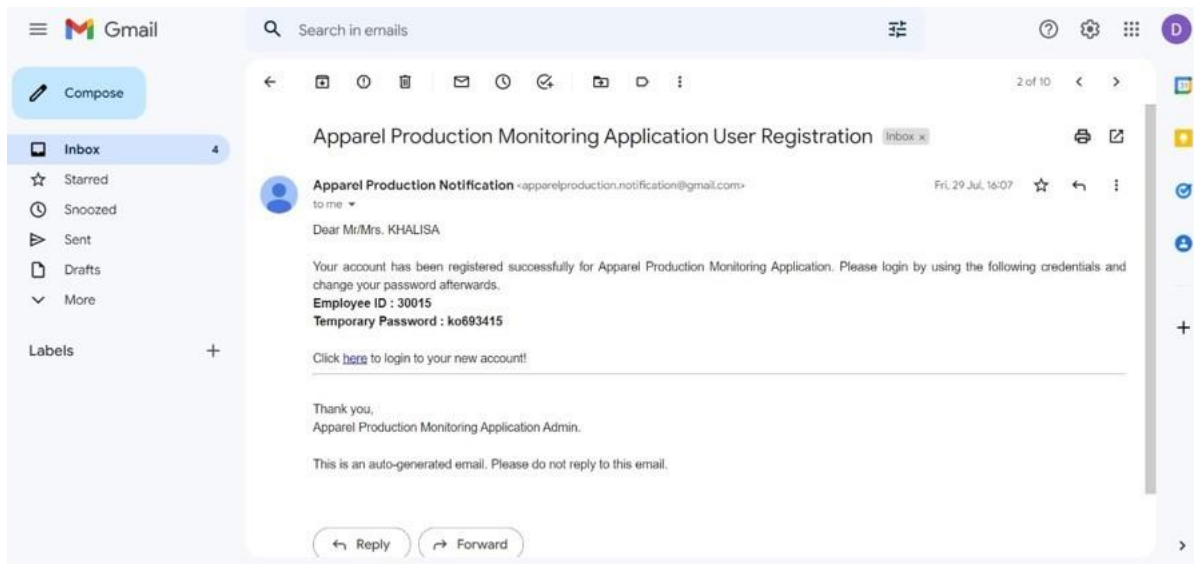
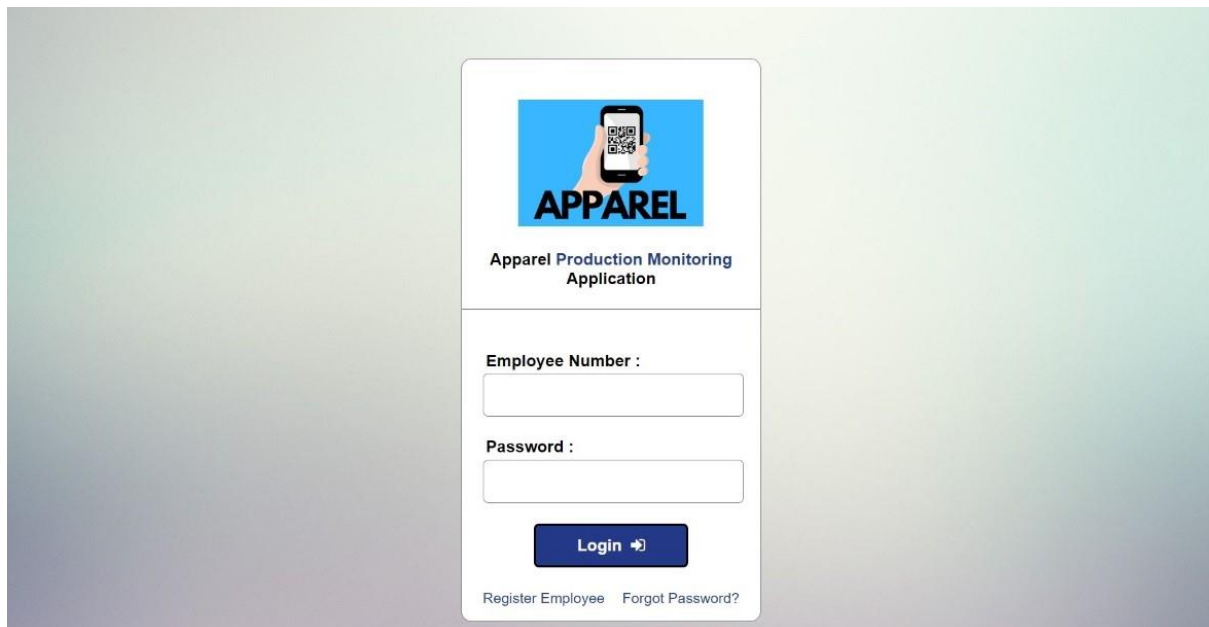


Figure 2: Users will get email that contains employee id and temporary password.



The image shows a login screen for the 'Apparel Production Monitoring Application'. At the top, there is a logo featuring a hand holding a smartphone with a QR code, with the word 'APPAREL' in bold blue letters below it. The title 'Apparel Production Monitoring Application' is centered below the logo. The login form consists of two input fields: 'Employee Number :' and 'Password :'. Below these fields is a blue 'Login' button with a right-pointing arrow. At the bottom of the form, there are two links: 'Register Employee' and 'Forgot Password?'.

**APPAREL**

Apparel Production Monitoring Application

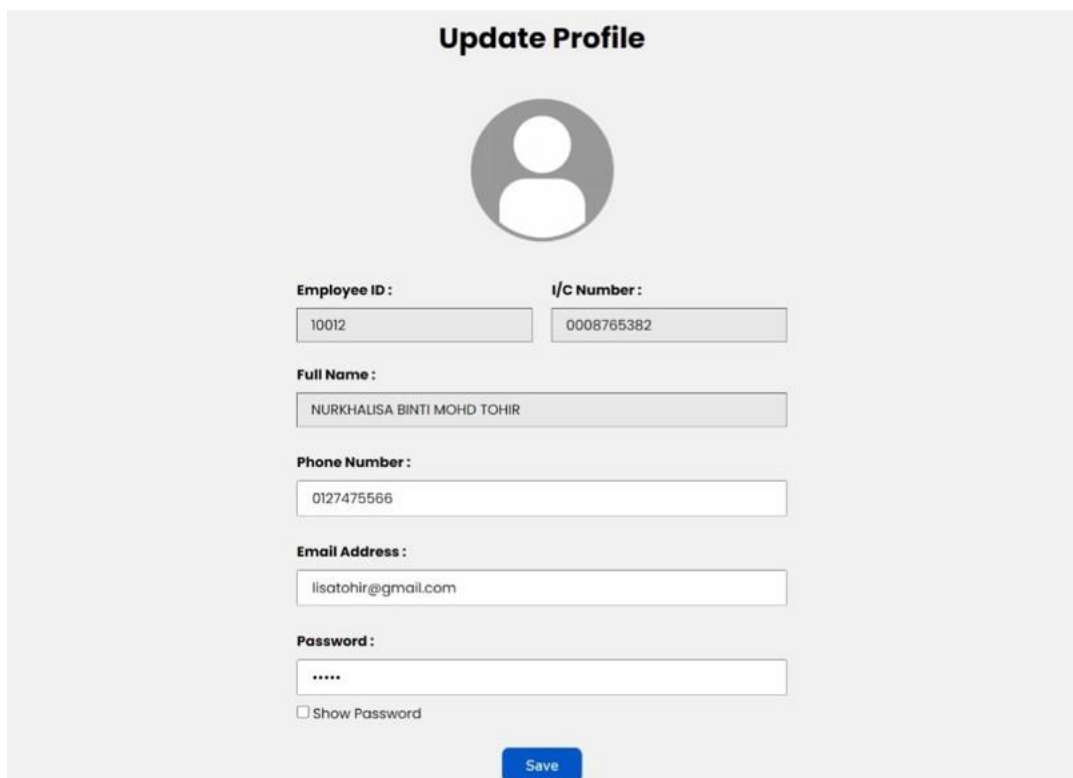
Employee Number :

Password :

Login ➔


[Register Employee](#) [Forgot Password?](#)

Figure 3: Users need to login using employee id and password.



The image shows an 'Update Profile' form. At the top, the title 'Update Profile' is centered. Below the title is a large circular placeholder for a profile picture. The form contains several input fields: 'Employee ID :' with the value '10012', 'I/C Number :' with the value '0008765382', 'Full Name :' with the value 'NURKHALISA BINTI MOHD TOHIR', 'Phone Number :' with the value '0127475566', 'Email Address :' with the value 'lisatohir@gmail.com', and 'Password :' with the value '\*\*\*\*\*'. Below the password field is a checkbox labeled 'Show Password'. At the bottom of the form is a blue 'Save' button.

**Update Profile**



Employee ID :

I/C Number :

Full Name :

Phone Number :

Email Address :

Password :

☐ Show Password

Save

Figure 4: Users can update phone number, email address and password.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

New Pattern

Add Pattern

Code :

P06

Type :

Image :

Choose File

No file chosen

☐ I acknowledge that all information are correct.

SUBMIT

RESET

Figure 5: Admins can add new pattern into the system.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

Pattern List

List of Pattern

Search..





















No	Code	Type	Image	Action
1	P01	TSHIRT MEN		  
2	P02	LONG SLEEVE SHIRT MEN		  
3	P03	LONG SLEEVE SHIRT WOMEN		  
4	P04	BAJU KURUNG		  
5	P05	TROUSERS MEN		  

Figure 6: Admins can view list of patterns.


Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

View Pattern

Code :  
P01

Type :  
TSHIRT MEN

Image :  


☒ I acknowledge that all information are correct.

BACK

Figure 7: Admins can view information for existing pattern.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

Update Pattern

ID :  
P01

Type :  
TSHIRT MEN

Image :  
 No file chosen

☒ I acknowledge that all information are correct.

UPDATE BACK

Figure 8: Admins can update information for existing pattern.

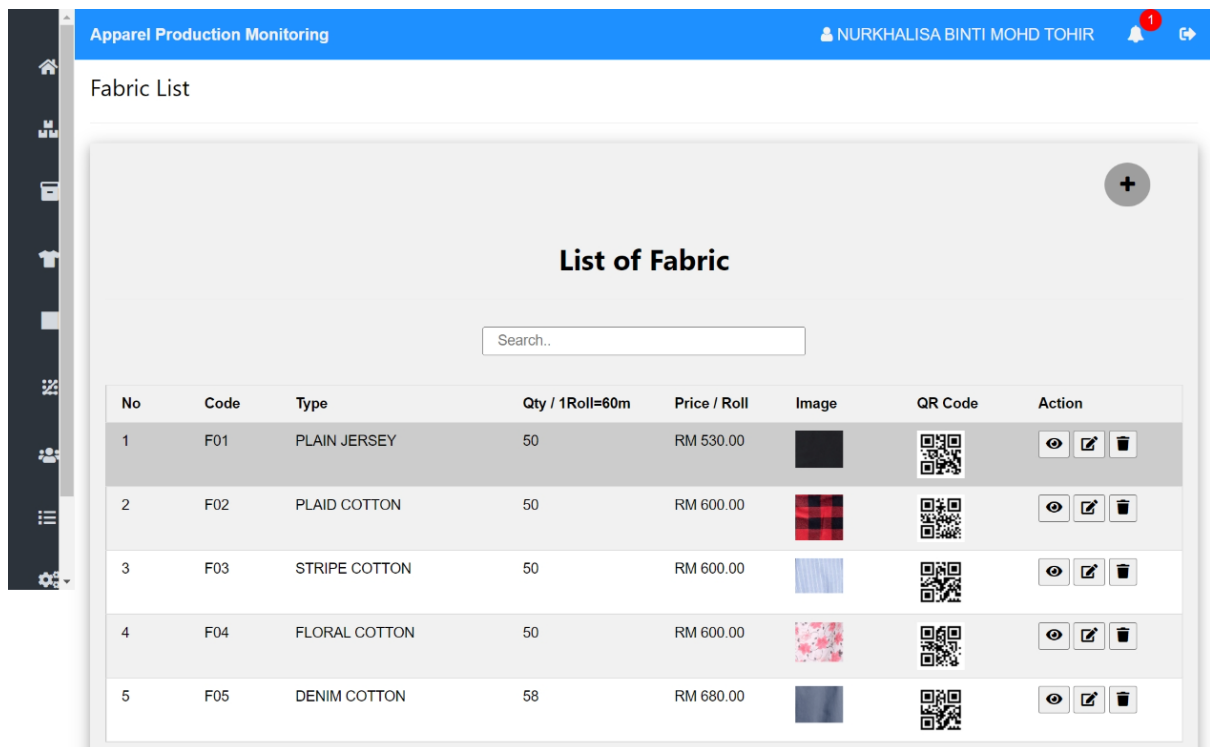


Figure 9: Admins can view list of fabrics.

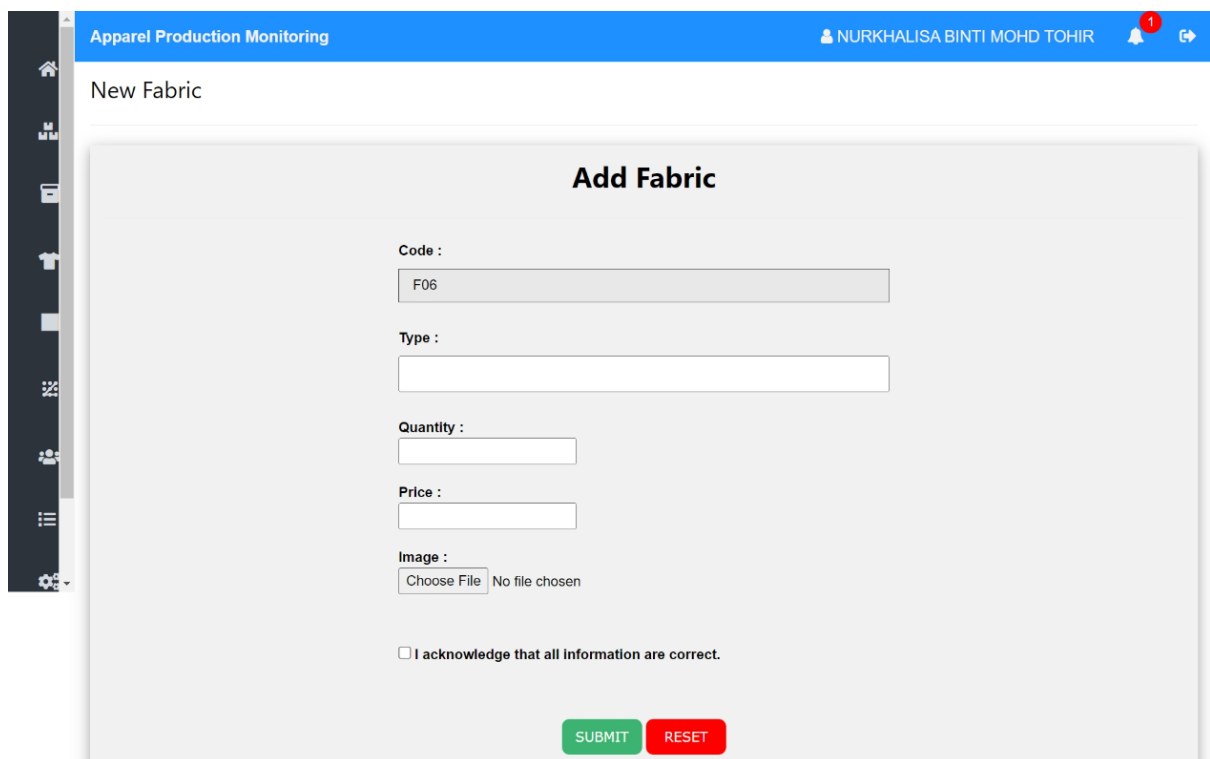


Figure 10: Admins can add new fabric into the system.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

View Fabric

Code :

F01

Type :

PLAIN JERSEY

Quantity :

50

Price :

RM 530.00

Image :

QR Code :

☒ I acknowledge that all information are correct.

BACK

Figure 11: Admins can view information for existing fabric. QR code will be generated automatically by the system after each insertion.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

Update Fabric

Code :

F01

Type :

PLAIN JERSEY

Quantity :

50

Price :

530.00

Image :

Choose File

No file chosen

☒ I acknowledge that all information are correct.

UPDATE

BACK

Figure 12: Admins can update information for existing fabric.

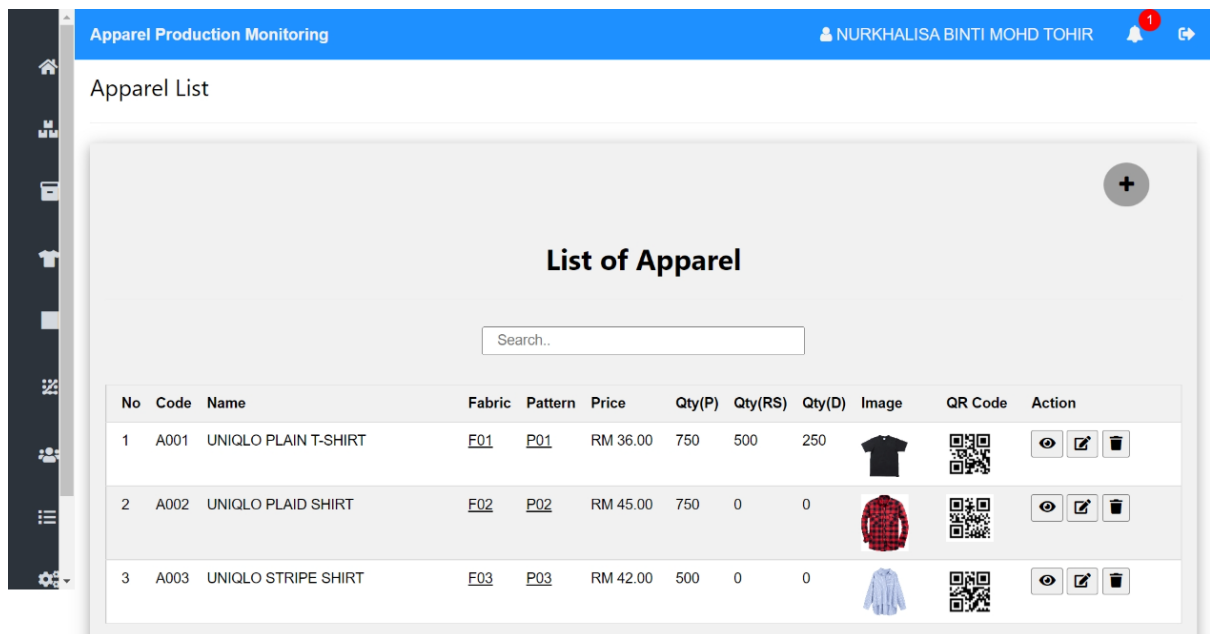


Figure 13: Admins can view list of apparel.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

### New Apparel

#### Add Apparel

Code :  
A004

Apparel Name :

Fabric ID :  
-- Select Fabric --

Pattern ID :  
-- Select Pattern --

Quantity:

Price :

Image :  
 No file chosen

☐ I acknowledge that all information are correct.

Figure 14: Admins can add new apparel to the system.



Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

View Apparel

ID :

01

Apparel Name :

A001 - UNIQLO PLAIN T-SHIRT

Fabric :

F01 - PLAIN JERSEY

Pattern :

P01 - TSHIRT MEN

Price :

RM 36.00

Quantity Planning:

750

Quantity Ready Stock:

500

Image :

QR Code :

☒ I acknowledge that all information are correct.

BACK

Figure 15: Admins can view information for existing apparel. QR code will be generated automatically by the system after each insertion.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

Update Apparel

ID :

01

Apparel Name :

A001 - UNIQLO PLAIN T-SHIRT

Fabric :

F01 - PLAIN JERSEY

Pattern :

P01 - TSHIRT MEN

Quantity Planning :

750

Quantity Ready Stock :

500

Price :

36.00

Image :

Choose File

No file chosen

☒ I acknowledge that all information are correct.

UPDATE

BACK

Figure 16: Admins can update information for existing apparel.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

Production List

List of Production

Search..










No	Production ID	Apparel ID	Target Quantity	Quantity	Production Status	Action
1	1	<u>A001</u>	750	750	FINISHING	  
2	2	<u>A002</u>	750	72	FABRIC INSPECTION	  
3	3	<u>A003</u>	500	15	PATTERN MAKING	  

Figure 17: Admins can view list of production.

Apparel Production Monitoring
NURKHALISA BINTI MOHD TOHIR

New Production

### Add Production

Apparel ID :

-- Select Apparel --

Quantity :

Employee ID :

-- Select Employee --

Production Status:

-- Select Status --

☐ I acknowledge that all information are correct.

SUBMIT RESET

Figure 18: Admins can add new production to the system.

Apparel Production Monitoring
NURKHALISA BINTI MOHD TOHIR

View Production

Production ID :

1

Apparel ID :

01

Production Quantity :

750

Production Status :

FINISHING

☒ I acknowledge that all information are correct.

BACK

No	Production Status	Timestamp
1	FABRIC INSPECTION	2022-07-03 12:08:21
2	PATTERN MAKING	2022-07-03 12:09:12
3	CUTTING	2022-07-03 12:09:20
4	SEWING	2022-07-03 12:09:30
5	FINISHING	2022-07-03 12:09:40

Figure 19: Admins can view information for existing production.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

### Update Production

Production ID :  
2

Apparel ID :  
02

Quantity :  
72

Production Status:  
-- Select Status --

☒ I acknowledge that all information are correct.

UPDATE BACK

Figure 20: Admins can update information for existing production.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

### Production List

Production Status Notification

Production ID : 1 has reached the target quantity : 750

#### List of Production

Search..

No	Production ID	Apparel ID	Target Quantity	Quantity	Production Status	Action
1	1	A001	750	750	FINISHING	
2	2	A002	750	75	FABRIC INSPECTION	
3	3	A003	500	15	PATTERN MAKING	

Figure 21: The system sends notifications to admin when production targets are reached.

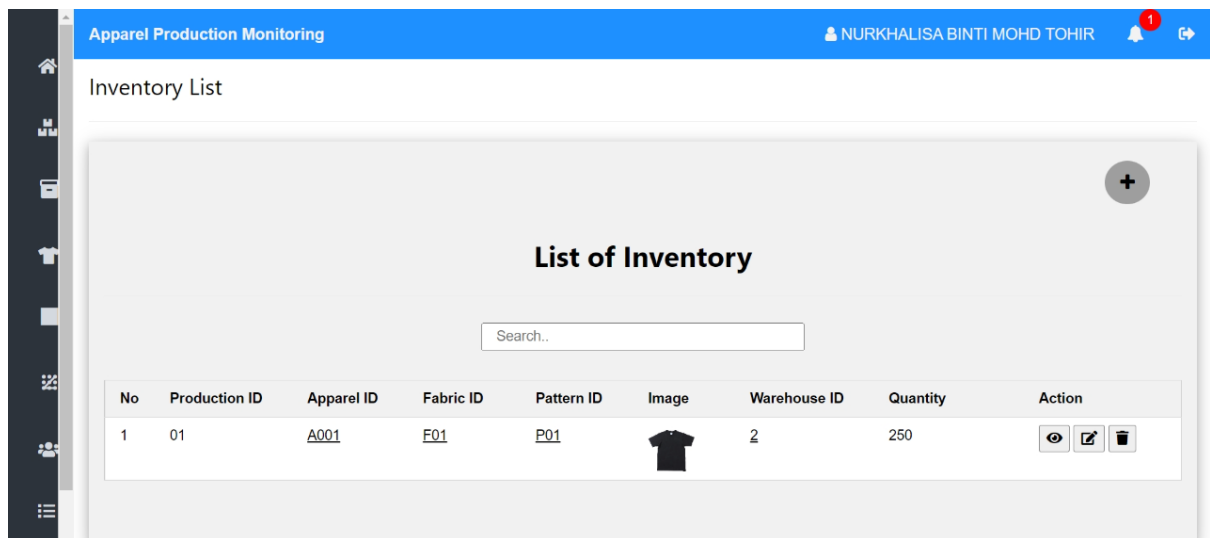


Figure 22: Admins can view list of inventories.

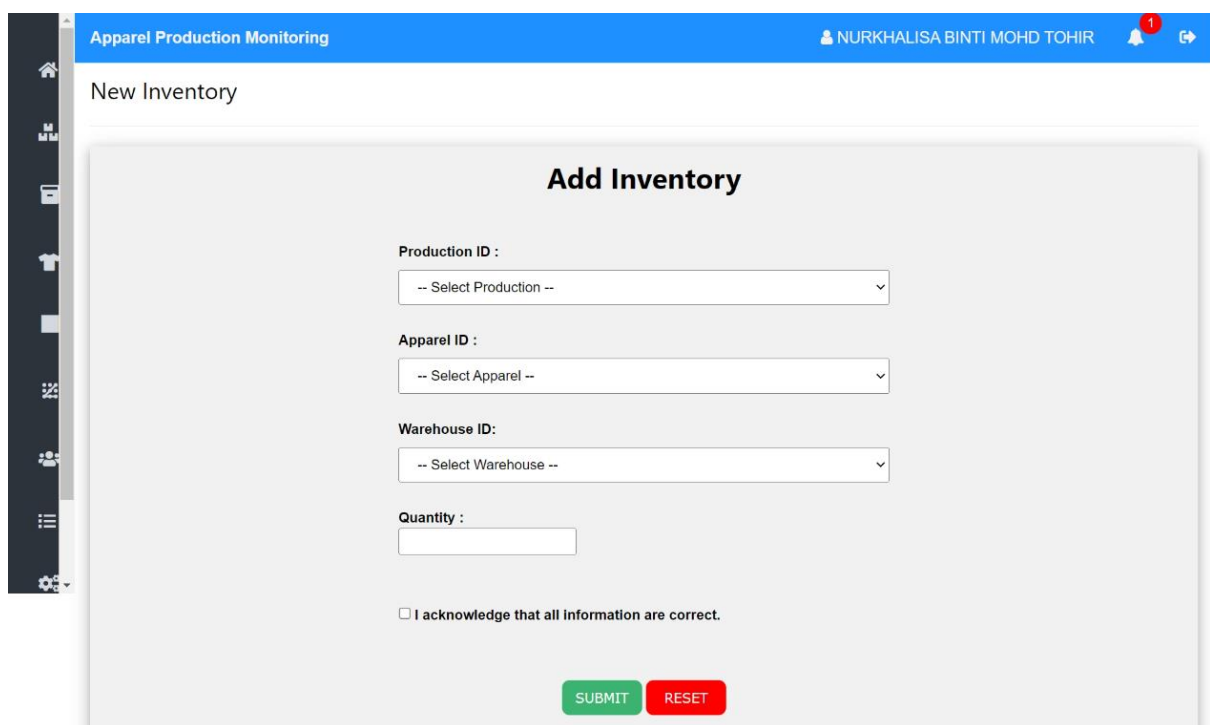


Figure 23: Admins can add new inventory to the system.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

View Inventory

Production ID :

01

Apparel ID :

01 - UNIQLO PLAIN T-SHIRT

Warehouse ID :

2 - AYER KEROH, MELAKA

Quantity :

250

☒ I acknowledge that all information are correct.

BACK

Figure 24: Admins can view information for existing inventory.

Apparel Production Monitoring

NURKHALISA BINTI MOHD TOHIR

Update Inventory

Production ID :

01

Apparel ID :

01

Warehouse ID:

-- Select Warehouse --

Quantity :

250

☒ I acknowledge that all information are correct.

UPDATE BACK

Figure 25: Admins can update information for existing inventory.

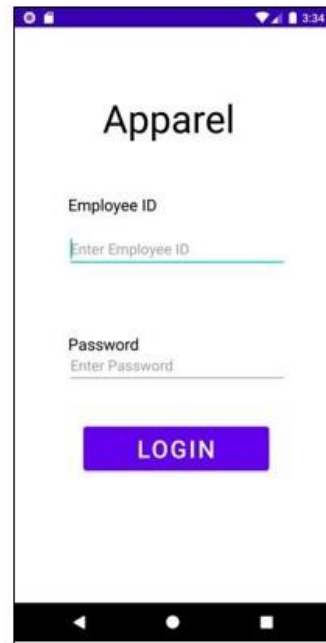


Figure 26: Production employees need to login using employee id and password.



Figure 27: After login, production employees will see this home page.

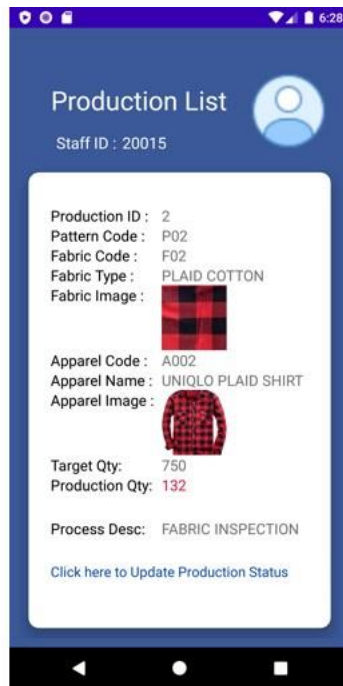


Figure 28: Production employees can view production list for their station.



Figure 29: Production employees need to scan QR code to record the quantity of apparel that have completed the process according to their respective station.



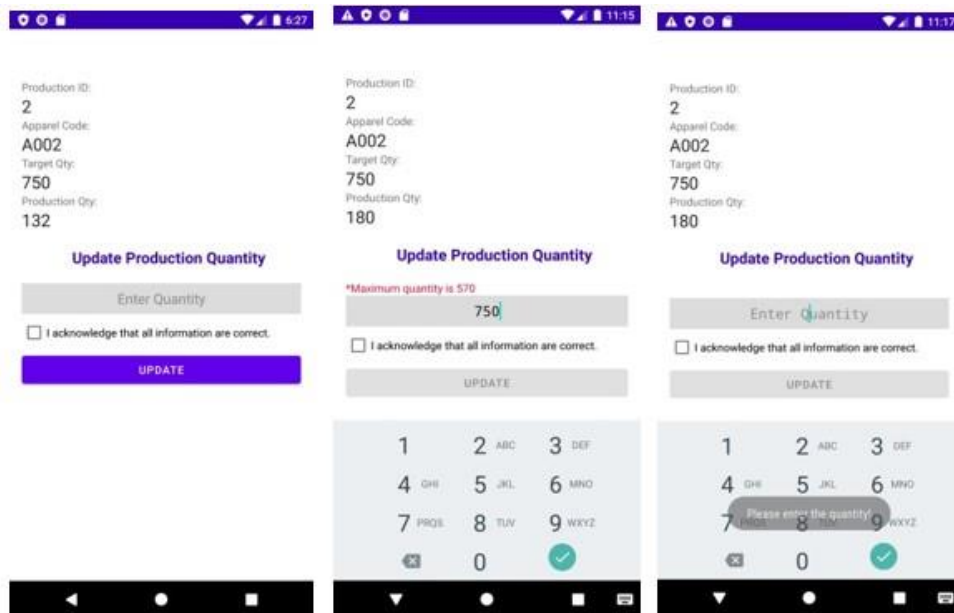


Figure 30: Production employees can efficiently track and update the progress of apparel production using the mobile application.

**Conclusion:** APMA offers a user-friendly and efficient solution for apparel production monitoring, empowering manufacturing facilities to streamline processes, reduce manual errors, and enhance overall productivity. By leveraging technology, APMA revolutionizes apparel production management, paving the way for improved efficiency and competitiveness in the industry.