**EBM verification project summary**

Main UI

1. Main title
2. Leftbar
3. Worplace
4. Bttorm bar

Left bar contains components that bring them to the work place upon click

1. Baby Information section
2. Baby face photo
3. Baby foot print
4. Baby Retina print
5. QR code generation and printing section
6. EBM delivery section
7. EBM verification
8. EBM usage section
9. User profile (admin, nurses, parent)
10. Log out

**Baby information**

1. Name in English as Baby boy or Baby girl then mother name
2. أبن او بنت ثم اسم الام
3. Arabic and Mother name is translational bilateral
4. Gender (Male, female, unassigned [Ambiguous]
5. MRN (medical record number)
6. Visit number
7. Passport ID
8. Personal (National ID)
9. Birth certificate
10. Baby date of birth
11. Current date
12. Days of life (DOL) calculated from birth date and current date in days
13. Gestational age (GA) at birth in form of drop list between 22 and 55 weeks and days drop list between 0 and 6 days
14. Corrected gestational age (CGA) calculated from days of life and
15. Birth weight from 250 to 6000 grams
16. Save record
17. Search record
18. Add new record

**Baby face photo**

1. Capture by camera
2. Upload from file
3. Save as Baby\_Face\_Photo\_”baby name” \_”Entered MRN”
4. Close
5. Retake
6. Help explain to the nurse who ti work
7. Linked with baby name and mrn
8. Only take baby face and not adult or others

Baby foot print

1. Foot print by camera
2. Foot print by scan
3. Upload file
4. Save as Baby\_Foot\_Print\_”baby name” \_”Entered MRN”
5. Help explain to the nurse how it works
6. Close
7. Linked with baby name and mrn

Baby Retina print

1. Foot print by camera capture
2. Foot print by scan
3. Upload baby retina from file
4. Help explain to nurse how it works
5. Save as Baby\_Retina\_Print\_”baby name” \_”Entered MRN”
6. Close
7. Help
8. Linked with baby name and mrn

Mother information

1. Mother name Arabic and English (bilateral translation)
2. Mother age from 12 to 70 years
3. Mother MRN
4. Gravida (G) as a drop list from 0 to 20
5. Para (P) as a drop list from 0 to 20
6. Abortion (A) as a drop list from 0 to 10
7. Date of delivery
8. Type of delivery drop list Normal vaginal delivery or C-section
9. Save
10. Help
11. Linked with baby name and mrn

Mother ID

1. Scan ID by camera
2. Scan ID by scan
3. Save ID as Mother\_ID\_\_”baby name” \_”Entered MRN”
4. Help
5. Close

**QR code section**

1. Generate QR code with bottle number bottle unique number linked with baby name and MRN
2. Print QR code with the bottle number, bottle unquiet number, Baby name, baby mrn and date of birth from 1 to 100 print all print selects, deselect for the bottle
3. Print QR code for the hand band
4. Save QR code as QR\_Code\_”baby name” \_”Entered MRN”
5. Close
6. Help

**EBM (express Breast milk) delivery section**

1. Date of expression
2. Date of delivery to the hospital
3. Number of the bottle
4. Unique bottle number (same in QR code)
5. Volume of milk in each bottle
6. Save as Bottle\_”Stored\_Number\_Unique number\_”baby name” \_”Entered MRN”
7. Close
8. Help

**EBM use**

1. Number of the bottle
2. unique number of the bottle
3. Volume of milk use
4. Amount of milk discarded (calculated form the difference between volume of the bottle and the volume used)
5. Save as\_”Used\_Number\_Unique number\_”baby name” \_”Entered MRN”
6. Help
7. Close

**Milk calculation**

1. Total amount of stored milk
2. Total amount of milk used
3. Total amount of milk discarded

**Milk table**

1. Show EBM delivery
2. EBM used
3. EBM calculation

Verification process

1. Nurse one scan bottle QR code compare either with Baby face photo or baby retina or baby foot print or Baby QR code band if matched send the message to the other number with the nurse 1 ID to verify if verified then the nurse can give the milk
2. If nurse 2 reject the nurse 1 should start again
3. If the bottle did not match with the baby, then the nurse verifies milk bottle QR code with the stored mother ID if match then the nurse should reprint the bottle QR code and try again
4. If the QR code of the bottle did not match with mother too then message should be shown to the nurses saying that this not belong to this baby and don’t give the milk
5. If verified then another nurse verifies if both match then a message say the milk is matched with baby please give

Profile

1. admin
2. Nurse
3. Parents
4. First name
5. Last name
6. Username
7. Password
8. Phone
9. Email
10. Picture
11. Address

Privileges of admin

1. See own profile
2. Create own profile
3. Approved profile of nurses and parents or disapprove
4. See other profile
5. See own history of log in and out
6. See nurses correct verification and failed verification history
7. Can delete record
8. Can see all the sections
9. Can not verify milk
10. Has unique ID
11. Can message nurses and parents inside the system
12. can search record

**Nurse privileges**

1. can create own profile’ after approval by admin
2. See own profile
3. See parents profile
4. See own history
5. See own verification success and failure
6. Can create record
7. Can verify
8. Can approve other nurse verification
9. Can message nurses, parents, and admin
10. Can search record
11. Can not delete record

Parents

1. Can create profile after approval by admin
2. Can see EBM table
3. Can message
4. Can see their baby information
5. See their log in and out