DTR Life Cycle Management System

Mobile Application

Software Modules:

Following are the main modules designed in DTLMS Mobile Application:

1. Register
2. Login
3. Dash Board
4. Failure
5. Enhancement
6. Approval Inbox
7. Stock Status

1. Register

- Register page is mainly used to register the mobile device using valid User Name and Password as shown in the below Fig (1)
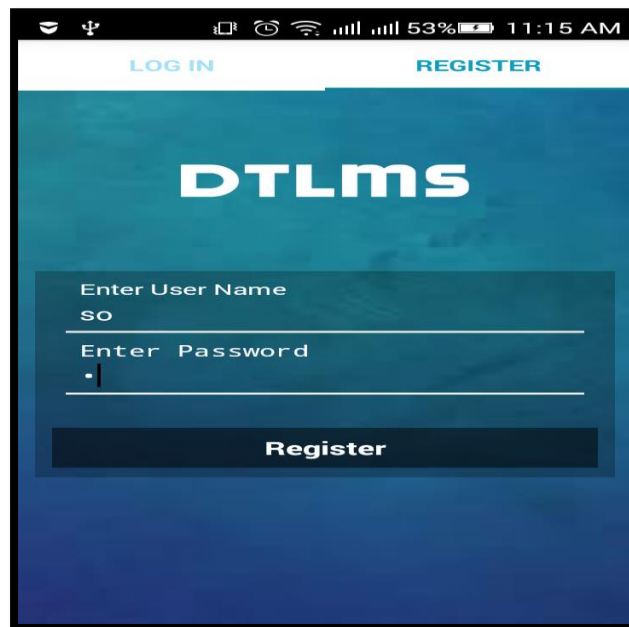

Fig (1): Register Page

- Mobile Device register will be approved by authorized person through DTLMS web application until then user not able to login to the application as it shows error message as shown in the below Fig (2)
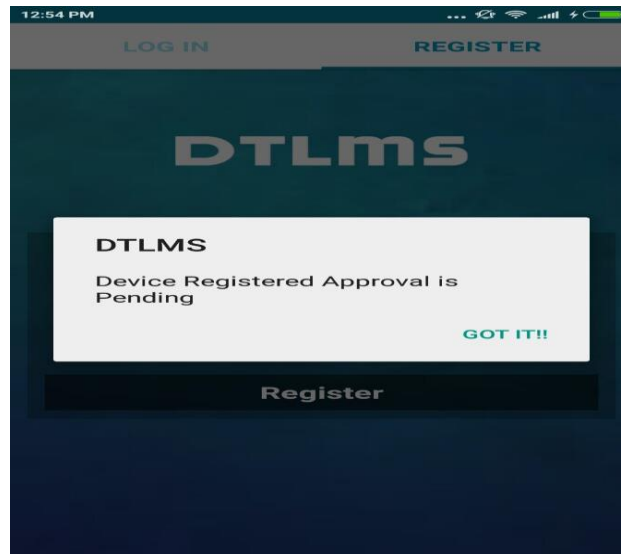
Fig (2): Register Approval Pending

2. Login

- Login page is mainly used to login into the particular application using valid User Name and Password as shown in the below Fig (3)
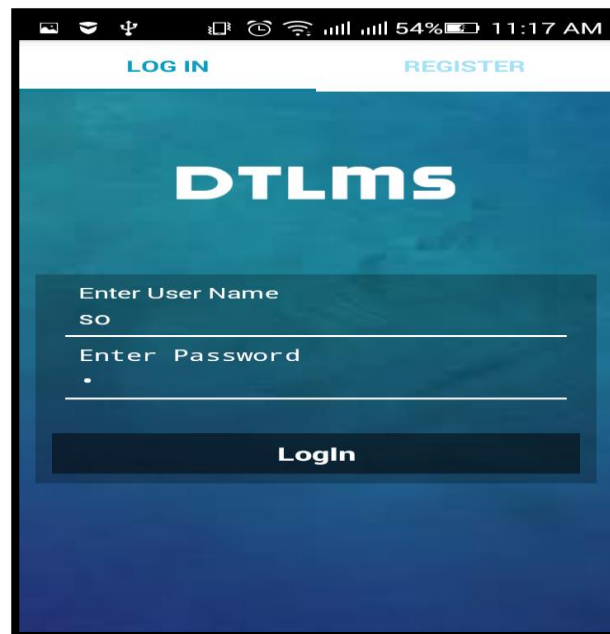

Fig (3): Login Page

- User Name and Password can be created by administrator through DTLMS web application.

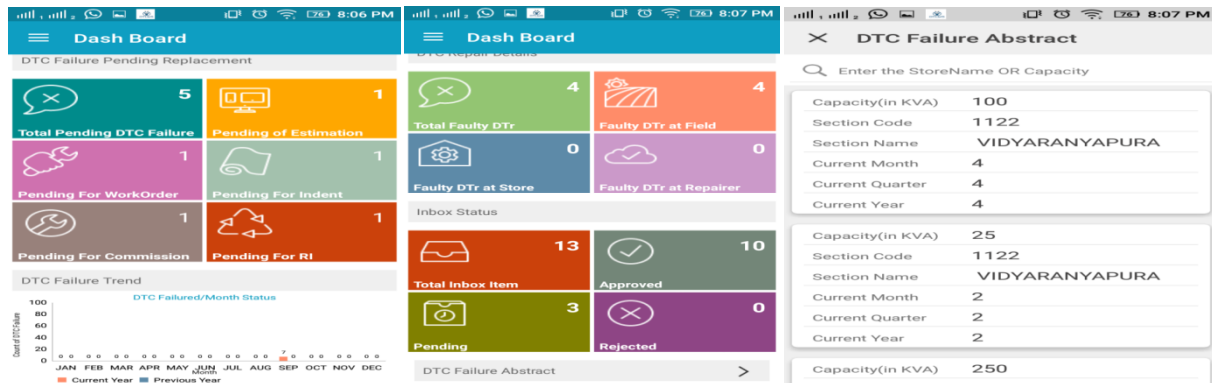DTC Life Cycle Management System(Mobile Application)

3. Dash Board

Fig (4): Dash Board

- As soon as a user logs into DTLMS, dash board screen will be displayed which shows all the transaction count with respect to the modules (4)
- Graphical representation for failed DTC with respect to particular month and also represents failed DTC details(4)

4. Failure Entry
- This Failure module is used to declare the failure for transformers.
- User is provided with Search page as he can search for particular transformer or group of transformer under same feeder to be declared using DTC Code or DTC Name as shown in the below Fig (5) & (6)

Fig (5): Search Page

Fig (6): New Failure Entry

- User is also provided with the Filter option as shown in the below Fig (7), as user can filter the records according to his DTC Code/DTC Name among several records.

Fig (7): Filter Page

- On clicking the "Declare Failure" link "Declare Failure" page will open as shown below Fig (8). On entering all the required fields and saving the record then transformer will be declared as failed.

Fig (8): Declare Failure Page

- After failure declaration and approval all the declared transformers details will be displayed in the "Show Failure Entry" page so that user can view the details of already failure declared transformers as shown in the below Fig (9)

Fig (9): Failure Entry View Page

5. Enhancement Entry:

- User can search for transformers to be enhanced using search option as shown in the above Fig (5) and below Fig (10)
- Enhancement Entry page is used when the existing transformer has to be replaced by a higher capacity transformer.

Fig (10): Enhancement Entry Page

- On clicking "Declare Enhancement" link "Declare Enhancement" page will open as shown below Fig (10).

Fig (11): Declare Enhancement Page

- On entering all the required fields and saving the record then DTC is declared for enhancement.
- After enhancement declaration all the declared transformers details will be displayed in the "Already Created" page so that user can view the details of already enhancement declared transformers as shown in the below Fig (12)

Fig (12): Enhancement Entry View Page

6. Approval Inbox

- After declaration of Failure/Enhancement, these declared records should get approved by authorized persons like Sub Division Officer.
- After Failure/Enhancement getting approved then Work Order, Indent and Decommissioning actions will get performed by various authorized persons.
- All the above mentioned actions will get performed in this "Approval Inbox" module as shown in the below Fig (13).
- As shown in the below Fig (13), Approval Inbox Dash Board shows the number of counts of records that each page consist of.
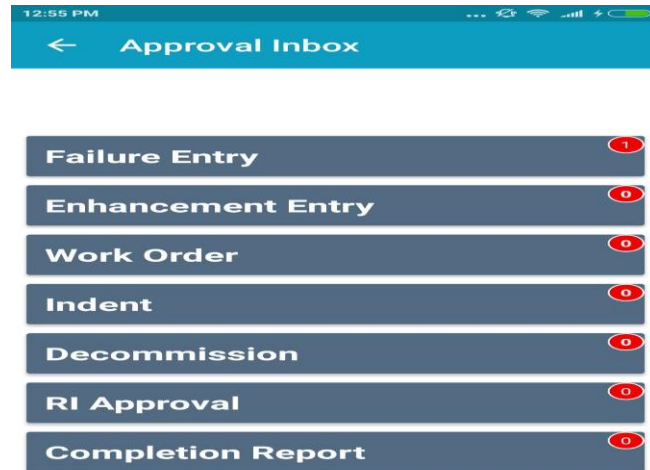

Fig (13): Approval Inbox Dash Board

5.1: Failure/Enhancement

- Pending for Approval page shows records to be approved along with Approve/Modify/Reject buttons as shown in the below Fig (14).
- For declared Failure/Enhancement, clicking on "Approve" button authorized person can approve the record without doing any modification as shown in the below Fig (15).
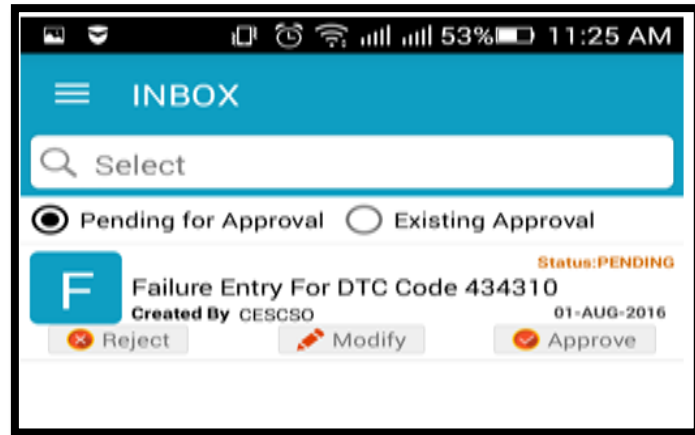
DTC Life Cycle Management System(Mobile Application)

Fig (14): Pending for Approval Page

Fig (15): Approval Page of Failure Record

- Approver can modify the record if needed and approve the same by using "Modify and Approve" button which displays Modify and Approve page shown in the below Fig (15).

Fig (16): Modify and Approve page

- Approver can also reject the record by using "Reject" button and rejected record will be displayed in the initiator inbox. So initiator can correct the record details and send for the approval again.
- After every action of Approval/Modify/Rejection records will get displayed in the "Existing Approval" page for existing record view as shown in the below Fig (17).
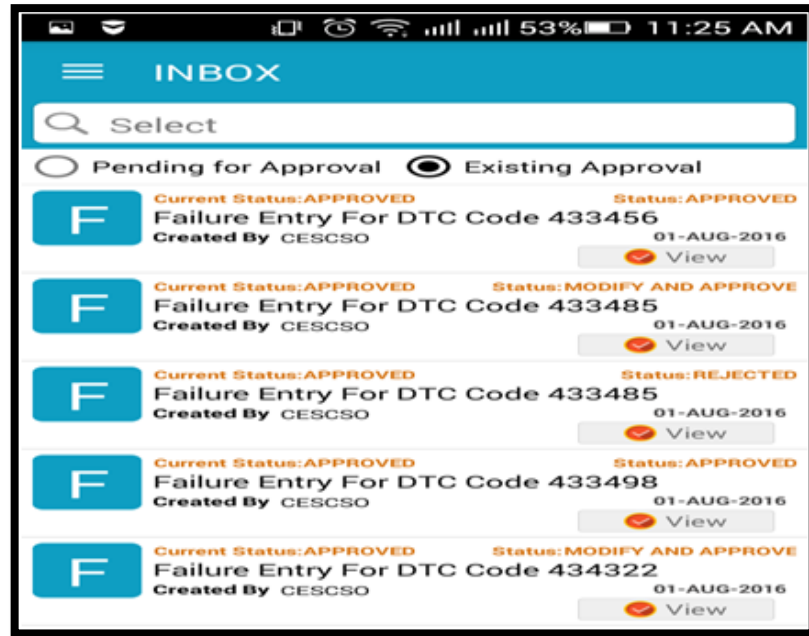
Fig (167): Modify and Approve page

5.2: Work Order

- Once after Failure/Enhancement records get approved then approved record will get displayed in the Work Order's Pending for Approval page
- Work Order page is mainly used to declare the Work Order by initiator on entering required Commissioning and Decommissioning fields as shown in the below Fig (18).
- Once after Work Order getting declared by initiator it will get approved by various authorized persons like Store Officer, Accounts Officer and Division Officer.
- At every level of approval approved/modified/rejected records details will get updated in the Existing Approval page.

DTC Life Cycle Management System(Mobile Application)

Fig (18): Work Order Creation Page

5.3: Indent

- After declaring and approval of Work Order then approved record will get displayed in the Indent's Pending for Approval page.
- Indent of the particular record can be created on entering require fields as shown in the below Fig (19)

Fig (19): Indent Creation Page

- Alert Me Once Stock Available in Store: As shown in the above Fig (19) when the requested capacity transformer is not available in the store this alert me checkbox is mainly provided to get the alert message once the requested transformer get available.
- Once after Indent getting declared by initiator it will get approved by authorized person like Sub Division Officer.
- As mentioned above for Work Order, for Indent also approved/modified/rejected records details will get updated in the Existing Approval page.

5.4: Decommissioning

- After declaration and approval of Indent then Invoice process will get performed through DTLMS web application by authorized persons like Store Officer and Store Keeper respectively.
- Once after declaration and approval of Invoice then approved records will get displayed in the Decommissioning Pending for Approval page.
- Decommissioning for the particular record can be created by initiator like Section Officer on entering required field as shown in the below Fig (20).

Fig (20): Decommissioning Page

- Once after Decommissioning getting declared by initiator it will get approved by authorized person like Sub Division Officer.
- As mentioned above for other modules, for Indent also approved/modified/rejected records details will get updated in the Existing Approval page.

5.4: RI Approval

Fig (21): RI Approval

- This form will be Approved by particular authorized person like store keeper in order to ensure that the failed DTR can be received from field to store.

5.4: Completion Report

Fig (22): Completion Report

- Completion report represents complete details of failed/enhanced DTR

5.4: Stock Status

Fig (23): Stock Status

- This form represents the details of store stock with respect to store name and store location.