UtahHousingCorp-MGLD

CONFIGURATION WITH PROPERTY FILES

1. **application.properties**:
   This is the default configuration file, that has been used to configure following.
   a. Data source
   b. Spring security
   c. Log configurations.

2. **forms.properties:**
   This configuration file is used for mapping original form name with the Display name in mobile application. To add new forms we have to follow following steps.

   a. Add form in forms folder. i.e. {TOMCAT_BASE_FOLDER}\webapps\mobapi\WEB-INF\classes\forms

   b. Open {TOMCAT_BASE_FOLDER}\webapps\mobapi\WEB-INF\classes\forms.properties

   c. Put new form name at the end of property "forms.orignal.name" separated with comma without space. i.e.

```
forms.orignal.name=LM Application Package.pdf,LM Application Package (PFS).pdf
```

   d. Put the form name as you want to display to users at the end of property "forms.display.name" separated with comma without space. i.e.

```
forms.display.name=Loss Mitigation_FHA Loan,ShortSale Application,Save Your Home
```

   e. Save the file and restart the application.

   Note: we are reading "**forms.property**" file in "**FormModel.java"**. It reads the entries and create a Map and when user requests form list from Mobile Application then we use list model class object to fetch the list of the forms.

3. **messages.properties:**
   This file is used to configure all messages of mobile application, which we are sending to user as response. If any messages need to be changed, it can be done in following way.
   a) Open {TOMCAT_BASE_FOLDER}\webapps\mobapi\WEB-INF\classes\messages.properties
   b) Change the message of any property accordingly. i.e.

```
cancelpayment.failure.error=Payment Could Not Be Cancelled
```

   Here in this message property instead of "Payment Could Not Be Cancelled", it can be changed to any desirous messages.

c) After changing the message, save the file and restart the application. The changes will reflected after tomcat restart successfully.

Note: we are reading "**messages.property**" file in "**MessageReader.java"**. It reads the entries and create a Map and when user requests any service from Mobile Application then we use MessageReader to send respective message as response.

4. **notification.properties:** This property file is used to configure the FCM push notifications.

Open {TOMCAT_BASE_FOLDER}\webapps\mobapi\WEB-INF\classes\notification.properties to access this file

This file contains several properties as follow:

- **payment.confirmation.messageTitle**: This contains the notification title of payment confirmation. i.e.

```
payment.confirmation.messageTitle=Utah Housing Payment Confirmation
```

It can be changed accordingly, after changing it follow the two steps:
  - Save the file
  - Restart the application.

- **payment.confirmation.messageBody:** This contains the notification body of payment confirmation. i.e.

```
payment.confirmation.messageBody=The payment made by you, has been successfully processed
```

It can be changed accordingly, after changing it follow the two steps:
  - Save the file
  - Restart the application.

payment.reminder.messageTitle: This contains the notification title of payment reminder. i.e.

```
payment.reminder.messageTitle=Utah Housing Payment Reminder
```

It can be changed accordingly, after changing it follow the two steps:
  - Save the file
  - Restart the application.

payment.reminder.messageBody: This contains the notification body of payment reminder, i.e.

```
payment.reminder.messageBody=Your due payment is arriving, please make the payment for the given details
```

It can be changed accordingly, after changing it follow the two steps:
  - Save the file
  - Restart the application.

notification.remove.in.days: It contains the number of days the notifications need to be deleted from database, i.e.

```
notification.remove.in.days=90
```

It can be changed accordingly, after changing it follow the two steps:

- Save the file
- Restart the application.

Note: we are reading "**notification.property**" file in "**SchedulerService.java"**.

5. **schedulerTimingConfiguration.properties:** to configure the FCM push notification timings to run the scheduled task at, schedulerTimingConfiguration.properties has been created.

   {TOMCAT_BASE_FOLDER}\webapps\mobapi\WEB-INF\classes\schedulerTimingConfiguration.properties

   There are three properties in this file, given as follow

   - **uhc.paymentConfirmation.cronExpression:** This contains the time expression when the scheduler runs to send payment confirmation to user, i.e.

     ```
     ## start the job every day at 9 AM for  UHC Payment confirmation
     uhc.paymentConfirmation.cronExpression=0 00 9 * * ?
     ```

     This time expression can be changed accordingly, after changing it follow the two steps

     - Save the file
     - Restart the application.

   - **uhc.paymentReminder.cronExpression:** This contains the time expression when the scheduler runs to send payment reminder to user, i.e.

     ```
     ## start the job every day at 10 AM for UHC Payment Reminder
     uhc.paymentReminder.cronExpression=0 00 10 * * ?
     ```

     This time expression can be changed accordingly, after changing it follow the two steps

     - Save the file
     - Restart the application.

   - **uhc.removeNotifications.cronExpression:** This contains the time expression when the scheduler runs to delete the notifications from the database, i.e.

     ```
     ## start the job every day at 8.30 AM to delete notifications
     uhc.removeNotifications.cronExpression=0 30 8 * * ?
     ```

     This time expression can be changed accordingly, after changing it follow the two steps

     - Save the file
     - Restart the application.

Note: we are reading "**scheduleTimingConfiguration.property**" file in "**ScheduledTask.java"**.

MODIFICATIONS IN DATABASE

1. New table added in database :

- **FCM_TOKEN:** This table is created in ''HOME3'' schema, to store the FCM generated tokens (security code) to the database. Whenever a user logs in to the application, along with the user credentials the FCM token also gets pushed according to the mobile device that is currently in use to log in the application.
  Once the user credential gets verified, and if it is correct then at the same time the FCM token gets inserted to the FCM_TOKEN table along the user_Id of the particular user.

  HOME3.FCM_TOKEN contains several fields as follow:

  - **ID** : This is for token id and it is an auto generated field
  - **USER_ID**: This is the user id for each registered users and this is a foreign key of USER table.
  - **TOKEN**: This is the actual token having long String, generated by the FCM.

- **FCM_NOTIFICATIONS:** This table is created in ''HOME3'' schema, to store the notifications those need to be sent to users and further related data.

  HOME3.FCM_NOTIFICATIONS contains several fields as follow:
  - **ID:** This is for notification id and it is an auto generated field.
  - **USER_ID**: This is the user id for each registered users and this is a foreign key of USER table.
  - **MESSAGE_TITLE:** This contains the title of notifications.

    For example if the notification is for payment confirmation, then the MESSAGE_TITLE will be updated as "Utah Housing Payment Confirmation" and if it is for payment reminder then it will be updated as "Utah Housing Payment Reminder".

  - **MESSAGE_BODY:** This contains the content of notifications those gets sent to users accordingly, i.e.
    a. The message for payment confirmation the message will be:

    "The payment made by you, has been successfully processed
    Loan Num: 1038***
    Monthly Payment: 1170.23
    Processed Date: 08/30/2018"

    b. The message for payment reminder the message will be:

    "Your due payment is arriving, please make the payment for the given details
    Loan Num: 9851***
    Monthly Payment: 44.04
    Next Due Date: 07/01/2018
    Next Scheduled Date: 09/04/2018"

  - **READ_STATUS:** This field contains an SAMALLINT character in form of '0' or '1'.

Read_Status of notification in these two scenario will be as follow:

- READ_STATUS of notifications remain '0' (false) by default
- Once the messages get read by users, READ_STATUS will be updated to '1' (true).

- **SENT_MESSAGE_TIME:** This contains the exact TIMESTAMP when the notification gets sent to users.
- **SOFT_DELETD:** This field contains an SAMALLINT character in form of '0' or '1'. This is just to update the table when the users want to delete notifications from their end.

  Value of SOFT_DELETD in HOME3.FCM_NOTIFICATION will be as follow:
  - SOFT_DELETD field of notifications remain '0' (false) by default
  - Once the message gets deleted by users, SOFT_DELETD will be updated to '1' (true).

2. New Field added to HOME3.USER table:

- **LOGIN_STATUS:** This field contains an SAMALLINT character in form of '0' or '1'.

  Value of LOGIN_STATUS in HOME3.USER will be as follow:
  - Default value of LOGIN_STATUS remains '0'.
  - Log In status of a user turned to '1' (true) when user gets logged in.
  - And it gets updated to '0' when user logs out