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class ZCL_MM_APPLICATION_LOG definition
    public
    final
    create public .

public section.
    """ public components of class ZCL_MM_APPLICATION_LOG
    """ do not include other source files here!!!

    methods ADD_LOG
        importing
            !IV_MESSAGE_NO type SYMSGNO
            !IV_MESSAGE_TYPE type SYMSGTY .
protected section.
    """ protected components of class ZCL_MM_APPLICATION_LOG
    """ do not include other source files here!!!
private section.
    """ private components of class ZCL_MM_APPLICATION_LOG
    """ do not include other source files here!!!

    data T_LOG_HANDLE type BAL_T_LOGH .

    methods CREATE_LOG .
    methods ADD_LOG_MESSAGE
        importing
            !IV_MESSAGE_TYPE type SYMSGTY
            !IV_MESSAGE_NO type SYMSGNO .
    methods SAVE_LOG .
ENDCLASS.

```

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CLASS ZCL_MM_APPLICATION_LOG IMPLEMENTATION.

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* <SIGNATURE>-----
* | Instance Public Method ZCL_MM_APPLICATION_LOG->ADD_LOG
* +-----
* | [--->] IV_MESSAGE_NO                TYPE          SYMSGNO
* | [--->] IV_MESSAGE_TYPE              TYPE          SYMSGTY
* +-----</SIGNATURE>

```

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method ADD_LOG.
    me->create_log( ).
    me->add_log_message( exporting iv_message_no = iv_message_no
                           iv_message_type = iv_message_type ).
    me->save_log( ).
endmethod.

```

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* <SIGNATURE>-----
* | Instance Private Method ZCL_MM_APPLICATION_LOG->ADD_LOG_MESSAGE
* +-----
* | [--->] IV_MESSAGE_TYPE              TYPE          SYMSGTY
* | [--->] IV_MESSAGE_NO                TYPE          SYMSGNO
* +-----</SIGNATURE>

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method ADD_LOG_MESSAGE.
    constants:
        lv_message_class type SYMSGID value 'ZREST_MSG'.

    data: lv_s_msg type BAL_S_MSG,
          lv_log_handle type BALLOGHNDL.

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read table me->t_log_handle into lv_log_handle index 1.

lv_s_msg-msgty = IV_MESSAGE_TYPE.
lv_s_msg-msgid = lv_message_class.
lv_s_msg-msgno = IV_MESSAGE_NO.

call function 'BAL_LOG_MSG_ADD'
  exporting
    I_LOG_HANDLE          = lv_log_handle
    i_s_msg               = lv_s_msg.

endmethod.

* <SIGNATURE>-----
* | Instance Private Method ZCL_MM_APPLICATION_LOG->CREATE_LOG
* +-----
* +-----</SIGNATURE>
method create_log.

constants:
  lv_object type string value 'ZREST_LOG',
  lv_subobject type string value 'ZREST_LOG_01',
  lv_alprog type string value 'MIME Web Service'.

data: ls_log type bal_s_log,
      lv_log_handle type balloghndl.

ls_log-object = lv_object.
ls_log-subobject = lv_subobject.
ls_log-aldate = sy-datlo.
ls_log-altime = sy-timlo.
ls_log-aluser = sy-uname.
ls_log-alprog = lv_alprog.

call function 'BAL_LOG_CREATE'
  exporting
    i_s_log          = ls_log
  IMPORTING
    E_LOG_HANDLE     = lv_log_handle.

append lv_log_handle to t_log_handle.

endmethod.

* <SIGNATURE>-----
* | Instance Private Method ZCL_MM_APPLICATION_LOG->SAVE_LOG
* +-----
* +-----</SIGNATURE>
method SAVE_LOG.
  CALL FUNCTION 'BAL_DB_SAVE'
    EXPORTING
      I_T_LOG_HANDLE          = me->t_log_handle.
endmethod.
ENDCLASS.

```