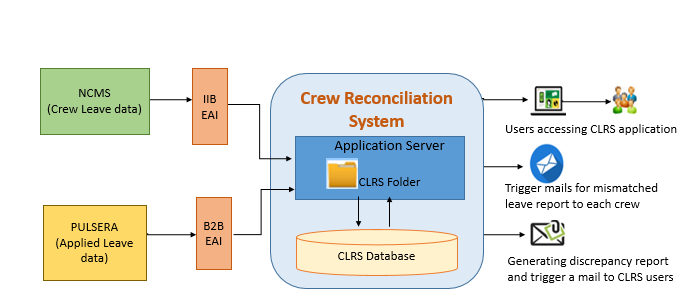
CLRS

**CREW LEAVE RECONCILIATION SYSTEM**

CLRS application is used to send reminder mails to the crew members to apply leaves. The application has a functionality to validate the leave data in NCMS against the actual leave applied in Pulsera. The application also facilitates to change the job schedule time, crew mail template and also provides view to discrepancy data and notified crew data.



Following are the interfacing systems for CLRS application:

* NCMS Interface

CLRS application is interfaced with NCMS through EAI. The application receives crew leave data in CSV format from NCMS system.

* Pulsera Interface

CLRS application is interfaced with Pulsera through EAI. The application receives applied crew leave data in CSV format from Pulsera System. (like Time off in Infogram)

CSV files of Pulsera and NCMS are received at the server every morning, and a cron job is scheduled to run around 11.00-11.30 which finds discrepancy between the data of these files. On basis of that, mails are triggered to the respective crew.

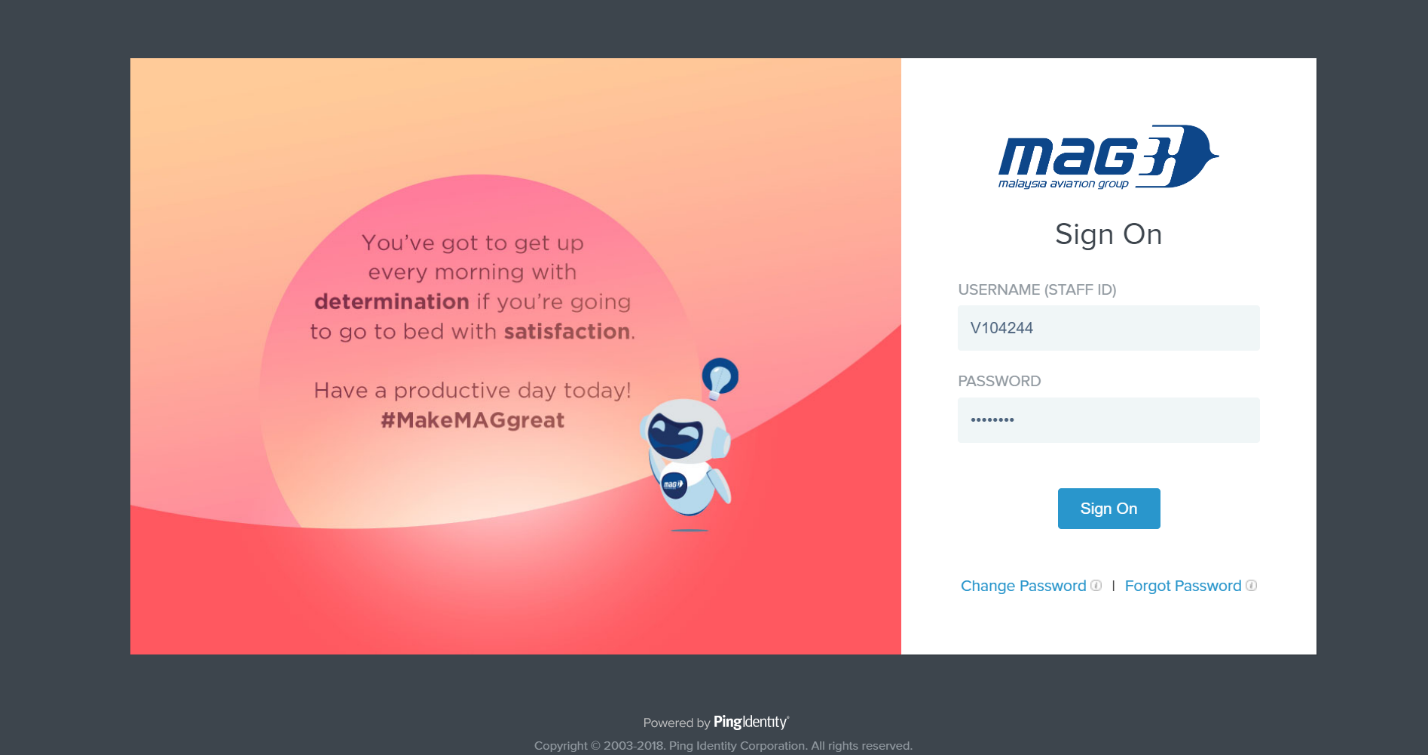
Job schedule module ke thru we can set the job timings as per the requirement, which in turn will be updated in db and will be used in the code.

Sends alert or notification to the crew, to mark the attendance or leave.

If in case application has not received the latest data in pulsera or ncms files, a mail will be triggered to their BUs saying the same. Then they will send us the files and we need to manually load it into the system via EAI.

Application Overview

Login Page

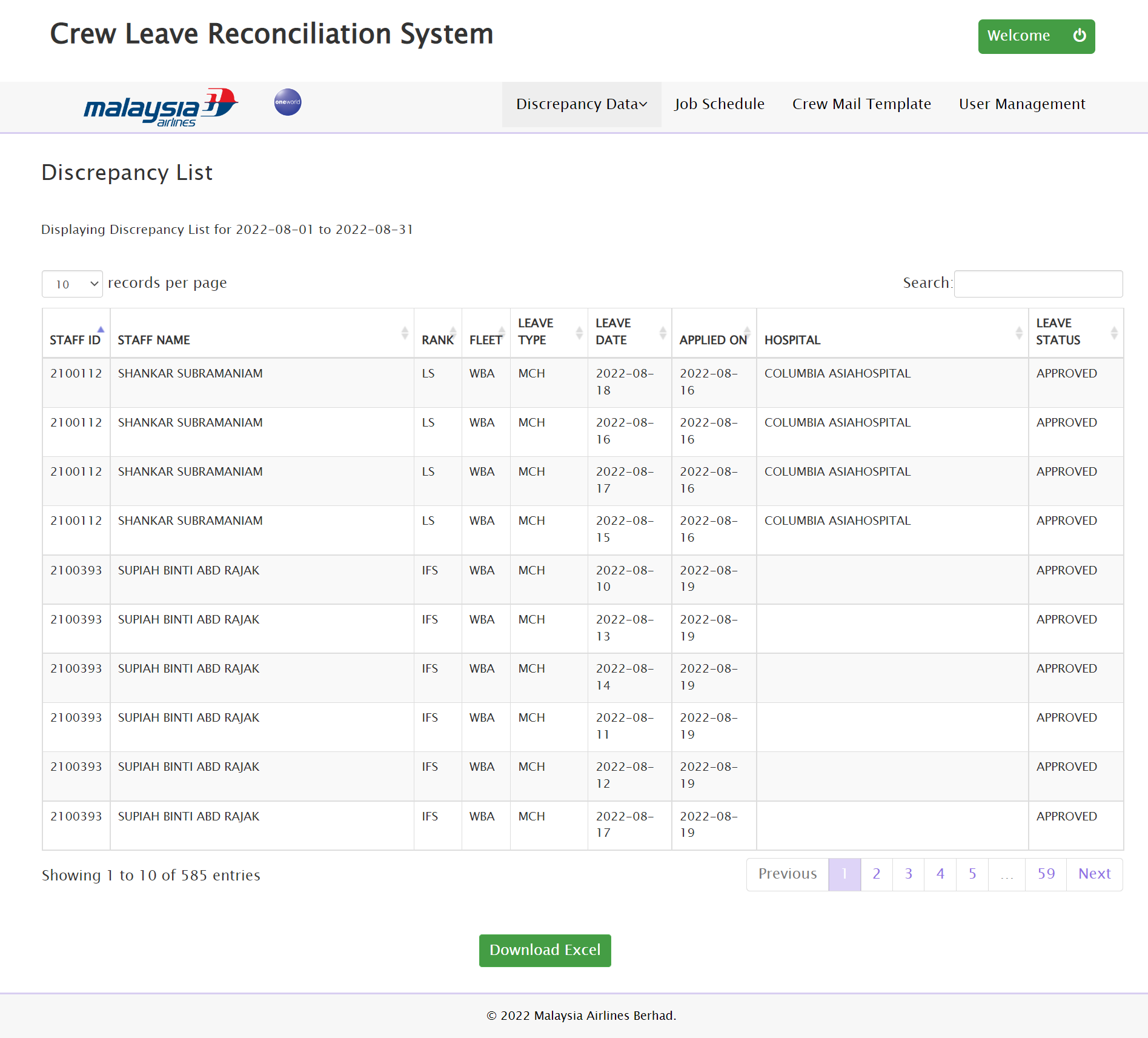


Landing Page



Discrepancy List

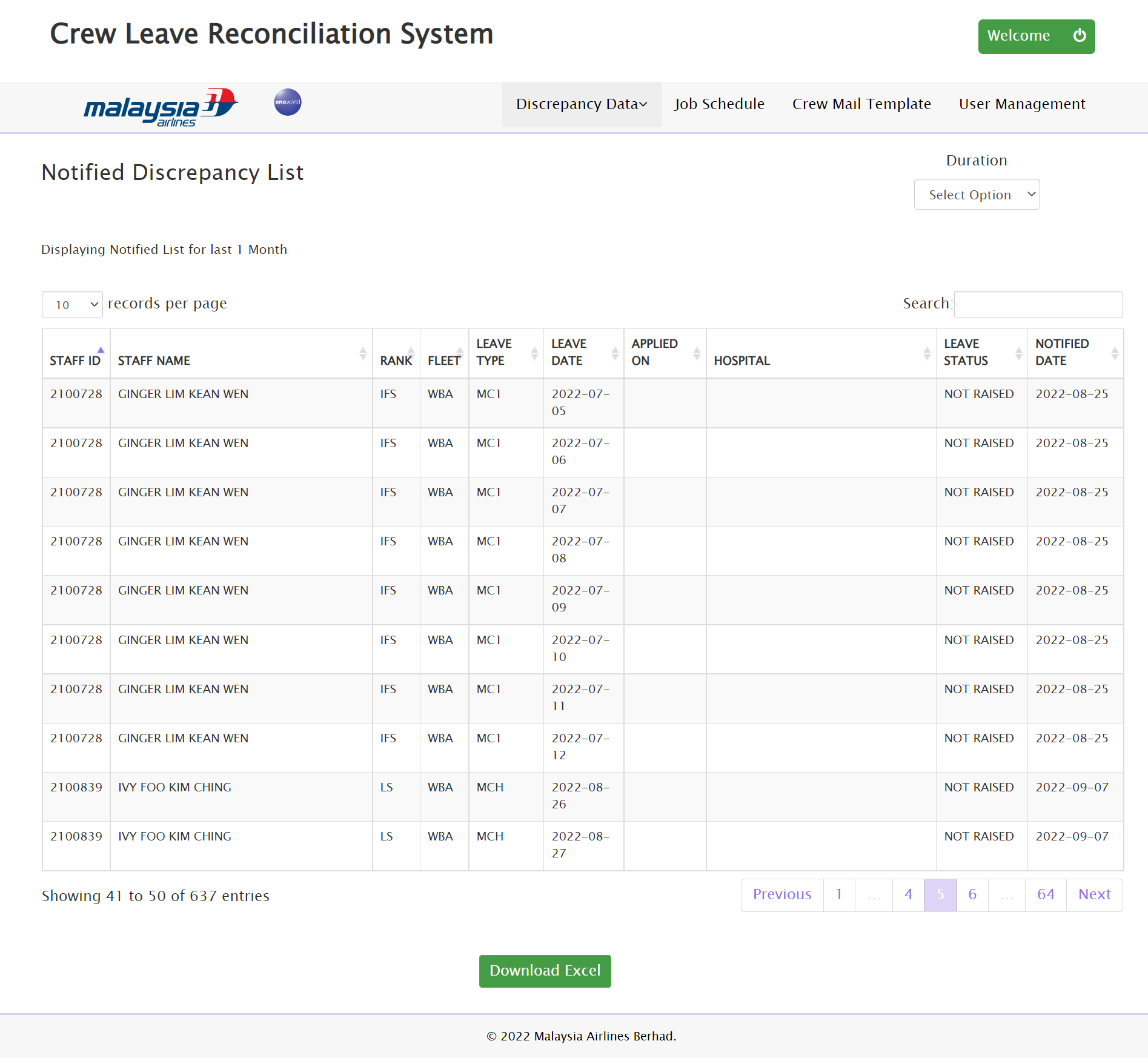




First DB used to store only 30 days data to find the discrepancy, afterwards BU has proposed that complete data should be present from 2020, it should not be deleted afterwards.

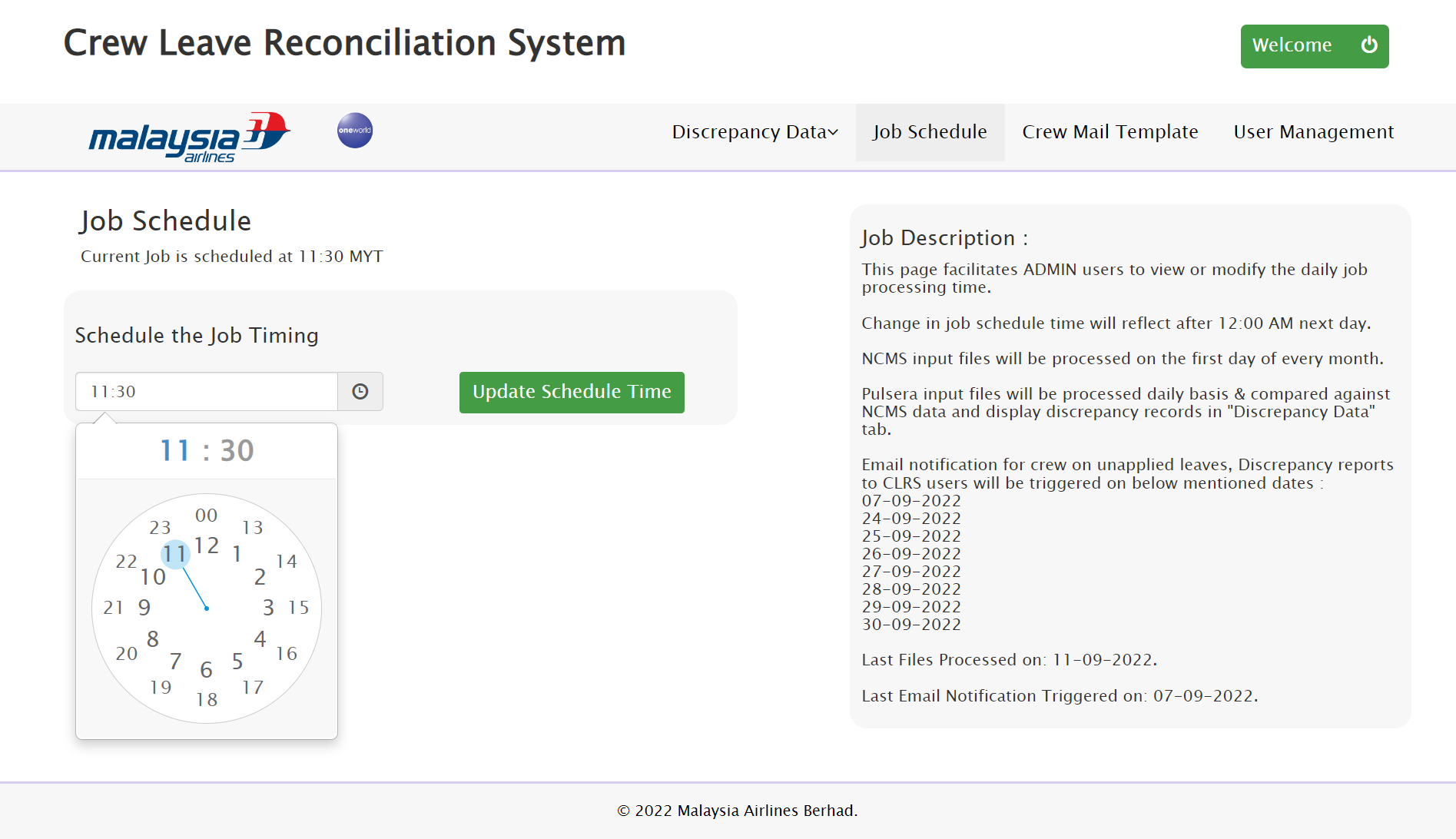
So the delete logic has been commented out and now complete data gets store in DB. So the anytime user can see the discrepancy data for any month.

Notified Discrepancy List

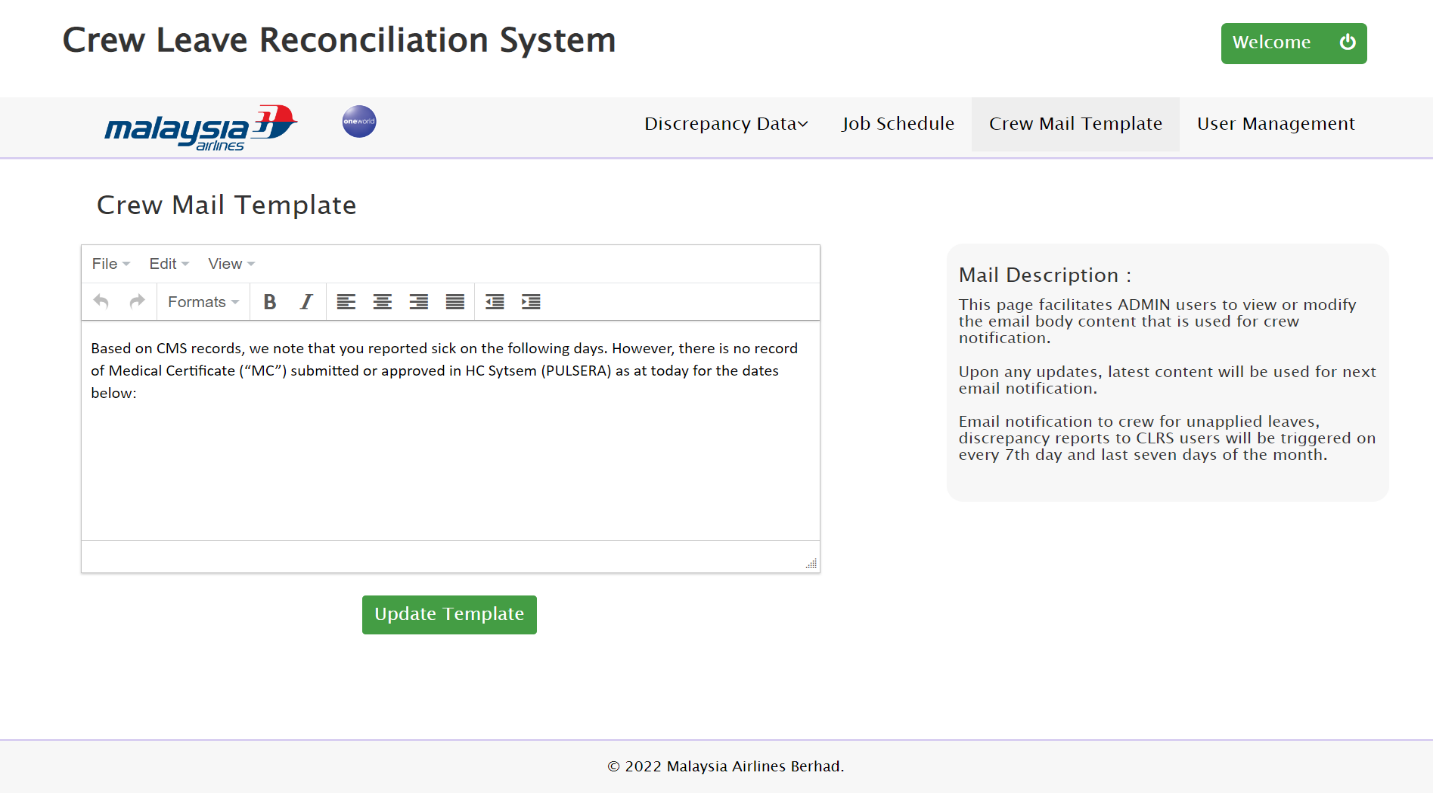


This includes the list of crew members who are already notified for not applying their leaves in Pulsera.

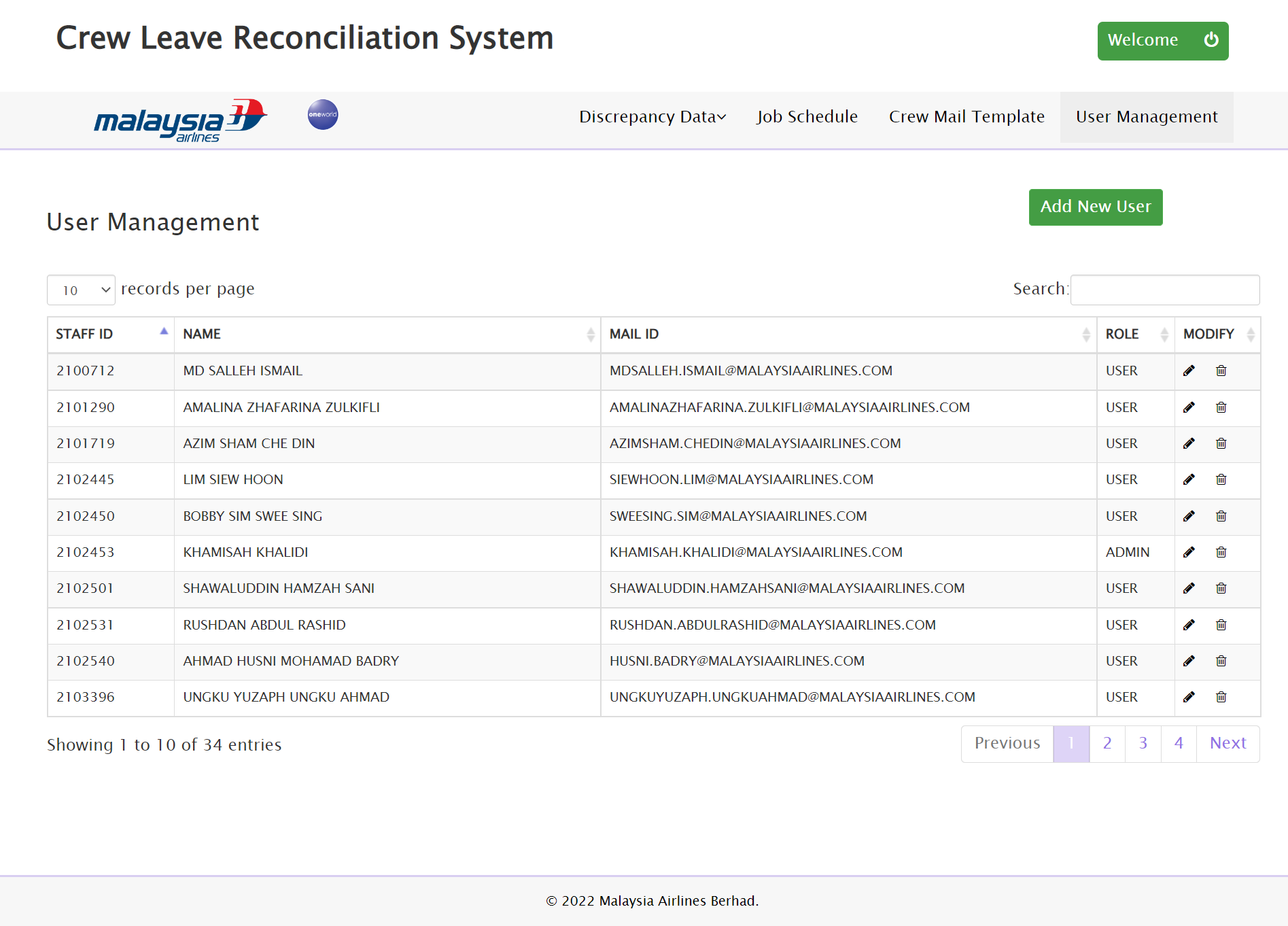
Job Schedule



Crew Mail Template



User Management



Roles and Features

|  |  |
| --- | --- |
| User | Discrepancy data |
| Admin | Discrepancy data  Job Schedule  Crew mail template  User Management |

Code Overview

Cron jobs are scheduled under dispatcher-servlet.xml



* Login

com.clrs.controller.LoginAction

com.clrs.dao.UserLogInfoDAO

CLRS\_USER\_INFO

* Discrepancy List

com.clrs.controller.DiscrepancyAction

com.clrs.dao.ParamConfigDAO

CLRS\_PARAM\_CONFIG

com.clrs.dao.ViewDiscListDAO

CLRS\_DISCREPANCY\_DATA

* Notified Discrepancy List

com.clrs.controller.NotifiedAction

com.clrs.dao.ParamConfigDAO

CLRS\_PARAM\_CONFIG

com.clrs.dao.ViewNtfdListDAO

CLRS\_NOTIFIED\_DATA

* Job Schedule

com.clrs.controller.SetJobScheduleAction

com.clrs.dao.ParamConfigDAO

CLRS\_PARAM\_CONFIG

com.clrs.dao.JobDAO

CLRS\_PARAM\_CONFIG

* Crew Mail Template

com.clrs.controller.EmailCntSetupAction

com.clrs.dao.EmailSetupDAO

CLRS\_PARAM\_CONFIG

* User Management

com.clrs.controller.UserManagmentAction

com.clrs.dao.UserDAO

CLRS\_USER\_INFO

* SchedulerServiceImpl

com.clrs.dao.NcmsFecthDAO;

CLRS\_NCMS\_LOAD

CLRS\_NCMS\_SPLIT

com.clrs.dao.PulseraFetchDAO

CLRS\_PULSERA\_LOAD

CLRS\_PULSERA\_SPLIT

* RunJobDaily

com.clrs.dao.JobDAO

CLRS\_PARAM\_CONFIG

* RunJobMonthly

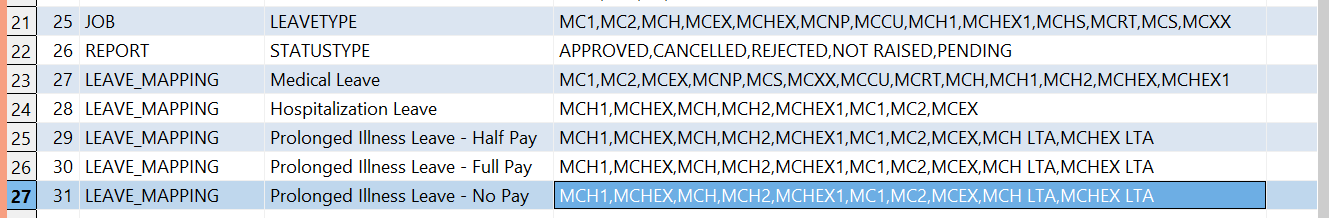
com.clrs.dao.ParamConfigDAO

CLRS\_PARAM\_CONFIG

* FileProcesingJob

NCMS and Pulsera files data get loaded into DB

Leave Mapping for Pulsera and NCMS files



Eg: Leave types in Pulsera and NCMS have been mentioned or called differently like Medical Leave has been mentioned in Pulsera so correspondingly MC1, MC2, MCEX etc will be mentioned in NCMS so in order to map those leaves of both the files they are specified here. It is used while generating a discrepancy report.

CLRS application, server and DB details

Application URL

|  |  |
| --- | --- |
| PROD | UAT |
| http://clrs.mas.net/ | http://3srasjavaapp1.mas.net:8080/clrs |

Server details

|  |  |
| --- | --- |
| PROD | UAT |
| MASG-1SRASJAVAAPP1 | MASG-3SRASJAVAAPP1 |

UAT Deploymanager

|  |
| --- |
| Link: http://3srasjavaapp1.mas.net:8080/Deploymanager/html  Username: tomcatusr  Password: TqKwkH2d |

DB details

|  |  |
| --- | --- |
| PROD | UAT |
| Server - MASG-1SRASJAVADB1 + 10.221.6.28  Database: MySQL Port: 3036  Username: clrs\_rw  Password: yD3EYAn2WqWS  (SSL certificates needed) | Server - MASG-3SRASJAVADB1 + 10.221.14.26  Database: MySQL Port: 3036  Username: clrs\_rw  Password: 3YSwesxqUwE4  (SSL certificates needed) |

BU

|  |  |
| --- | --- |
| Rodzlin Ramli | rodzlin.ramli@malaysiaairlines.com |
| Khamisah Khalidi | khamisah.khalidi@malaysiaairlines.com |

Groups

|  |  |
| --- | --- |
| Email | GD\_AMS\_MHCLRS |
| Service Now | APP – MHCLRS |

Log Path

|  |
| --- |
| IP - 10.221.4.29  /tomcat/apache-tomcat/logs/MHCLRS.log |

NCMS and Pulsera File Paths

|  |
| --- |
| IP: 10.221.4.29  Username: clrs\_ftpuser  Password: g{=?xLaJh~  NCMS file path: /ftpdata/CLRS/NCMS  PULSERA file path: /ftpdata/CLRS/Pulsera |