MHM

**MH MESSENGER**

MHMessenger Application is used for notifying users regarding Flight Details and it also notify users regarding Fuel Order forms.

Tech crew check their duty rosters like which flight they are assign to fly on that particular day and can update fuel order forms.

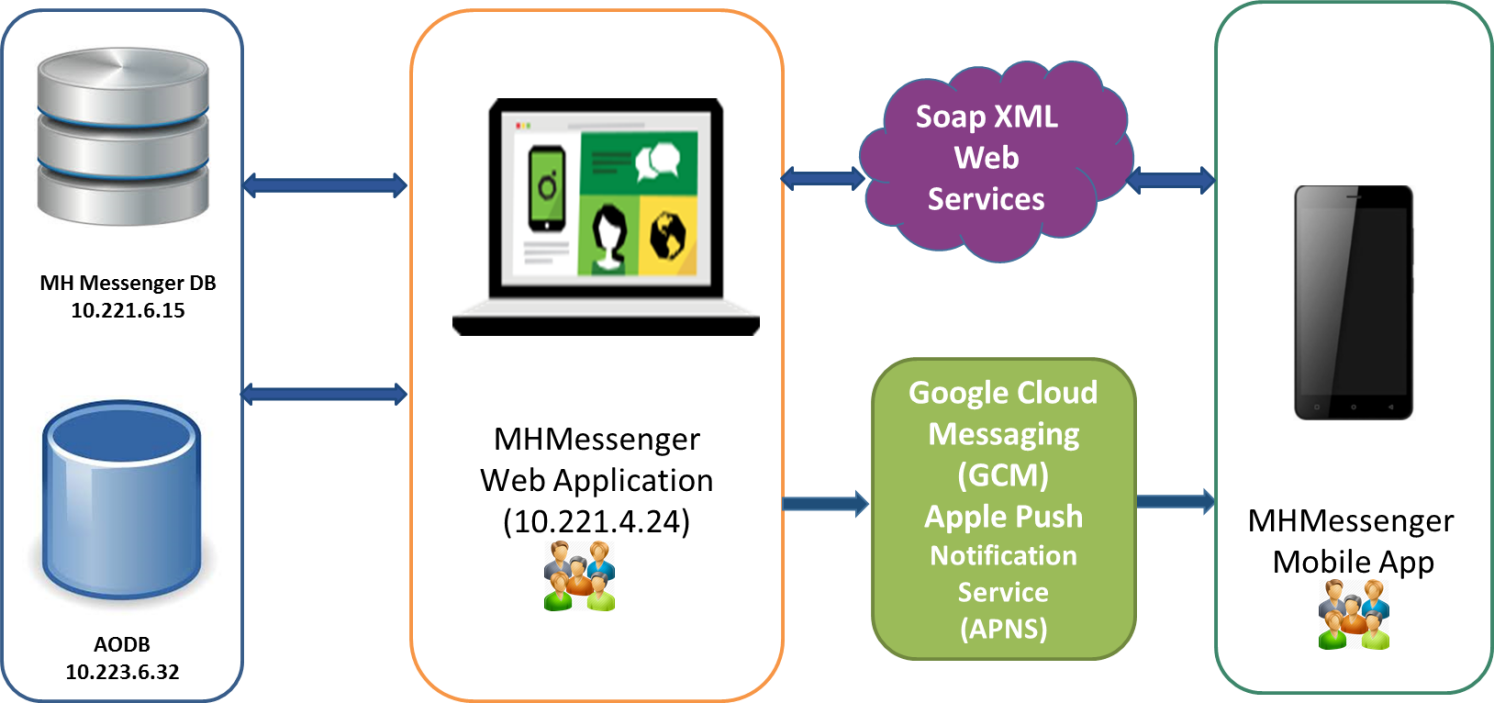
Flight & Crew Notification

* All crew/flight notification messages are sent through web portal.
* Users assigned with sender access to a group will be able to send flight/crew notification messages. For those users who are assigned with receiver access will only receive notifications but he/she will not be able to send messages using web portal
* Flight Messages are limited to 150 characters
* For those users with valid mobile number & not registered through MHMessenger mobile app, SMS will be used for communication of flight/crew messages
* PUSH notifications will be sent to those users who have installed & registered using mobile app
* In mobile app, users can view all the flight/crew notifications received for them

Fuel order updates

* BPM will send updated fuel figures to MHMessenger and it can be viewed through mobile app
* BPM sends the fuel figures to particular users automatically who are registered in MHMessenger.
* Mobile app will also show the history of fuel order previously submitted for the flight
* Users will be given option to update the fuel figures if necessary
* On successful submission, fuel figures will be updated in Amadeus FM & BPM systems automatically

Business Overview Process



Latest 10 hrs data get populated in MHM so basically MHM DB has to store the data max of 10 days, after that data can be deleted from db if needed.

Data flow for Fuel Order Form

Sends FoF

Update to BPM in every 5 min

BPMNotificationService

FPM

MHM App

BPM

AODB

Crew can update the fuel figures if needed, then update to Amadeus

Store the updated fuel figures

1A/Amadeus

System interfaces-

* 1A Interface:

MHMessenger is interfaced to 1A PSS system using web-services through EAI-B2B systems. It uses 1A services for updating final fuel figures in Flight Management (FM) system.

* AODB/BPM Interface:

MHMessenger is interfaced to the AODB using JDBC & BPM using web services. Fuel order updates are exchanged through BPM.

* AODB2 Interface:

MHMessenger is interfaced to the AODB2 using JDBC. This interface is being used to pull out information for MHOPS flight rosters of Ground Handlers.

* SMS & PUSH:

MHMessenger uses Maxis-SMS service thru EAI layer which is used to send notifications to those users without MHM apps on their mobile. For those installed, PUSH notifications are been sent thru GCM n APNS notification services.

Roles and Features

|  |  |
| --- | --- |
| Roles | Features |
| Others | Flight Notification  Crew Notification  Notification Report |
| Admin | Flight Notification  Crew Notification  Notification Report  Manage Users  Manage Groups |

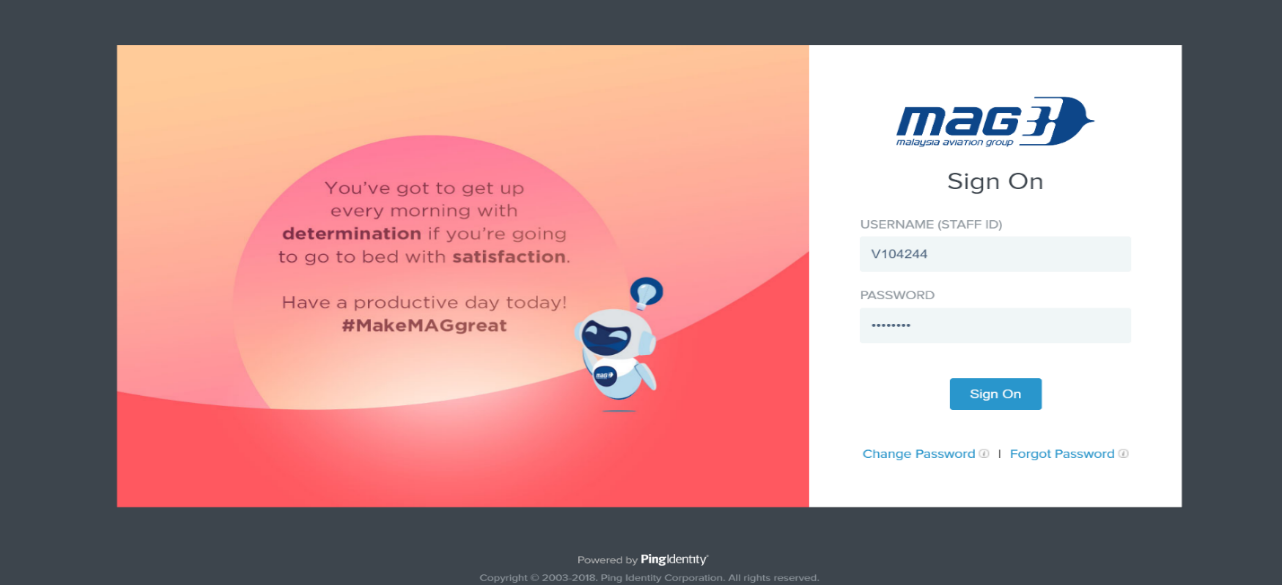
Groups

|  |
| --- |
| MHOPS - RAMP AHU  MHOPS - ENGINEERING  MHOPS - GH PAX  MHOPS - CABIN CREW  MHOPS - TECH CREW - for FOF  MHOPS - SUPERVISOR/MANAGEMENT  NON-MHOPS – for External users/Non-MAB staff |

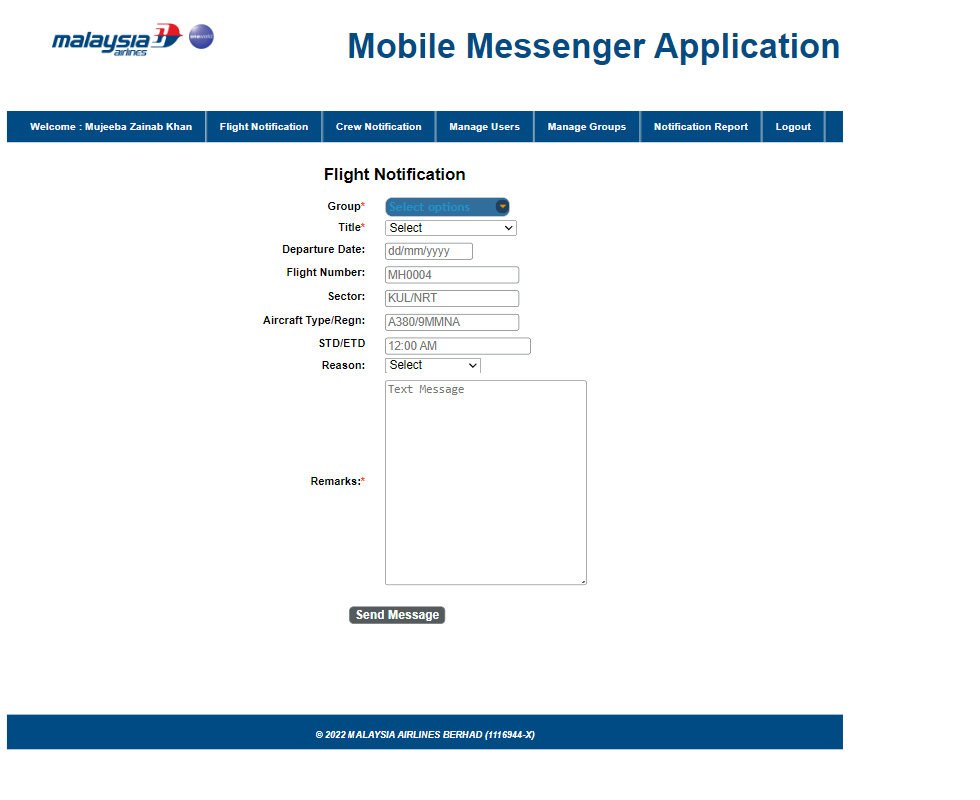
Application Overview

* Web Portal

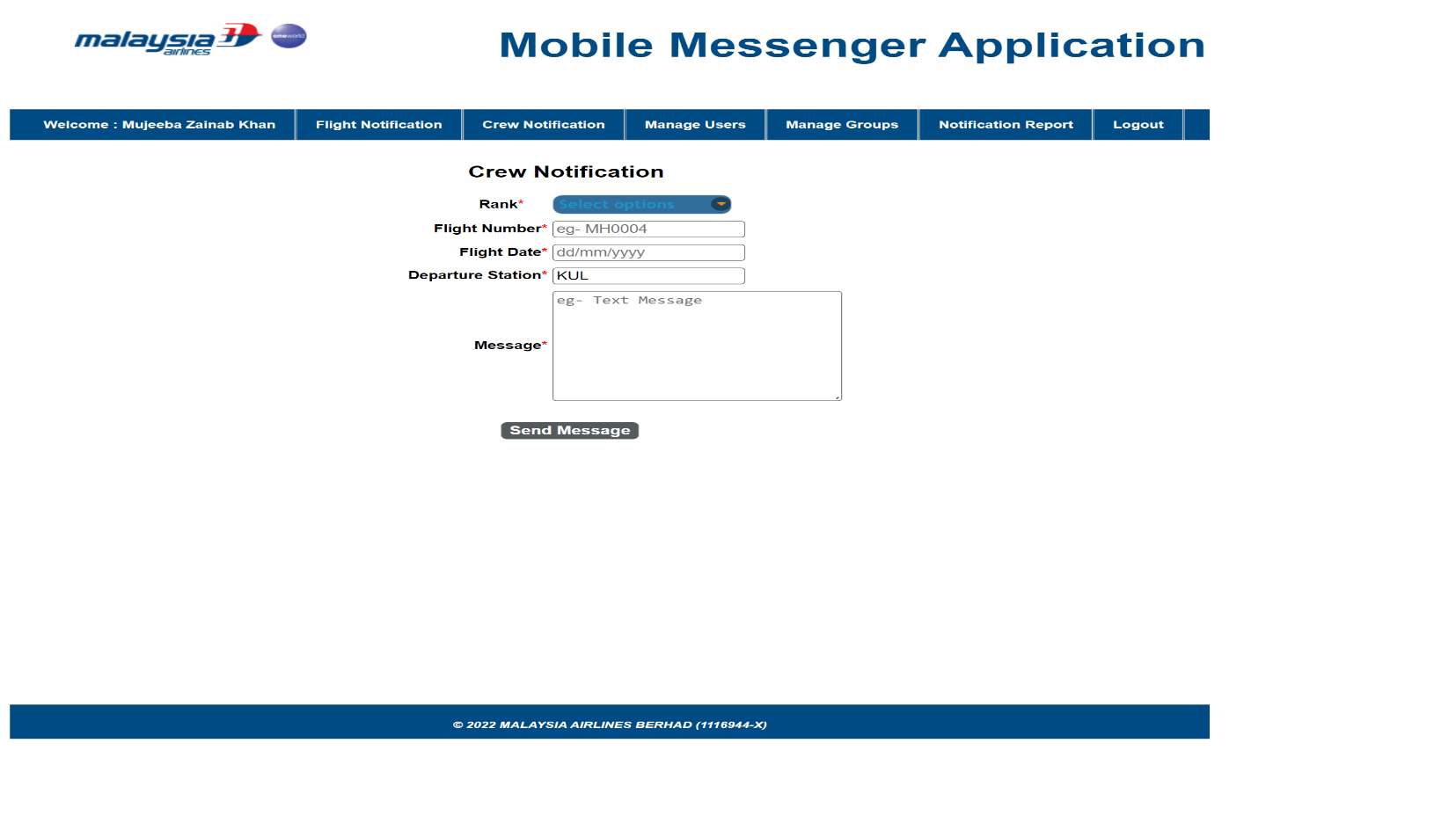
Login Page



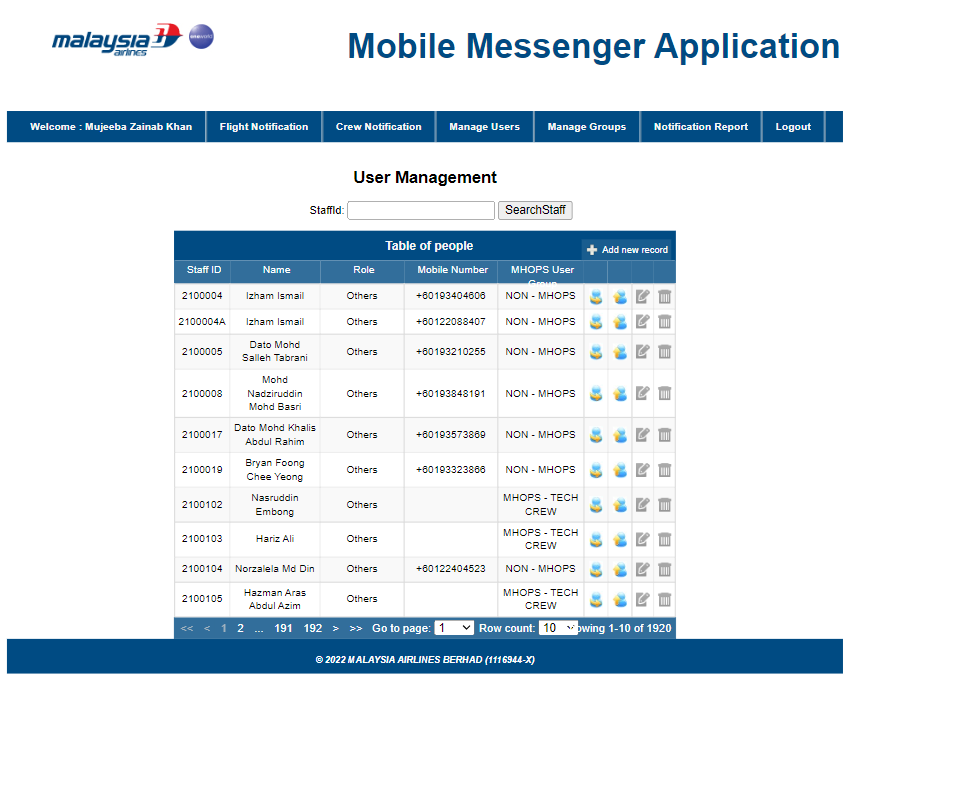
Flight Notification



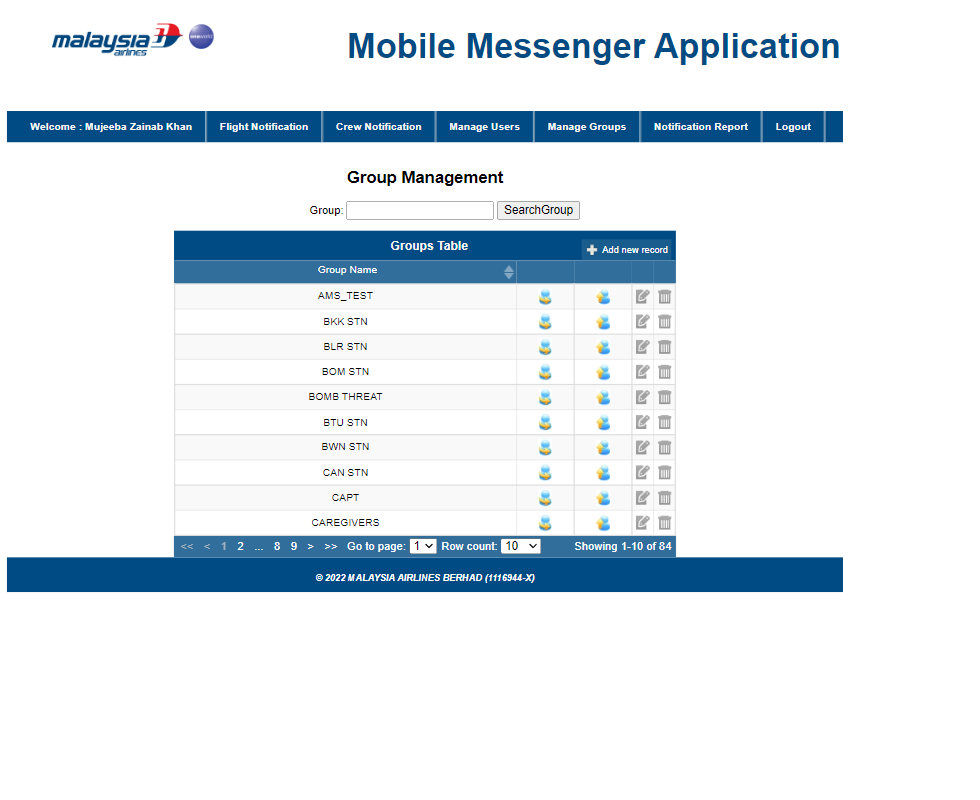
Crew Notification



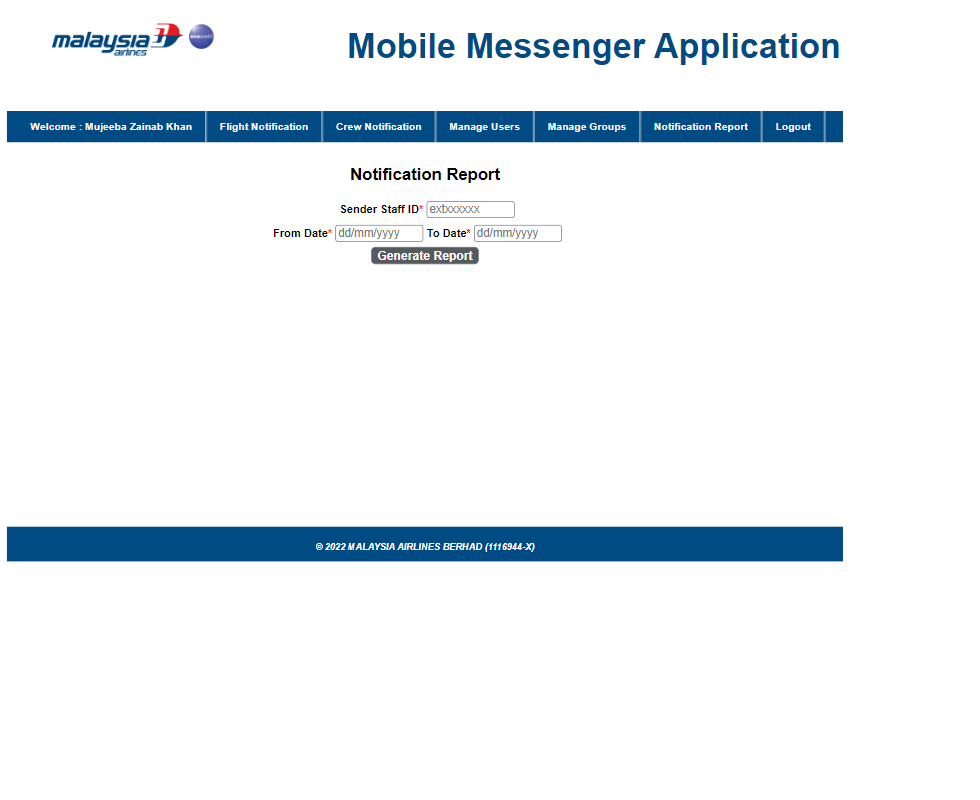
Manage Users



Manage Groups

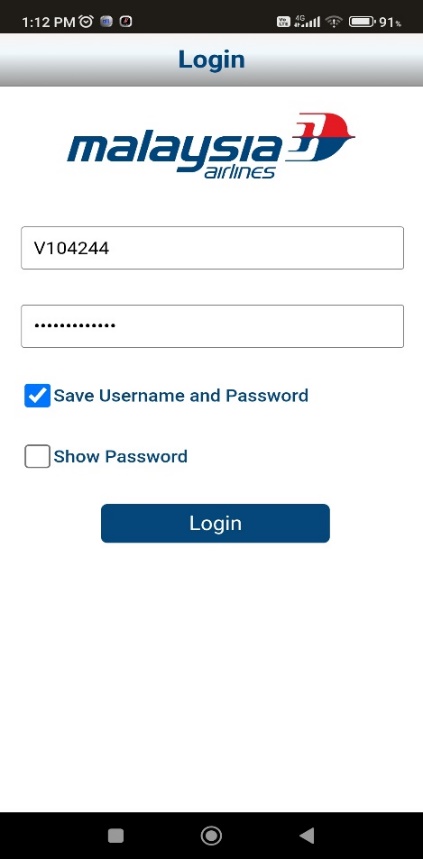


Notification Report

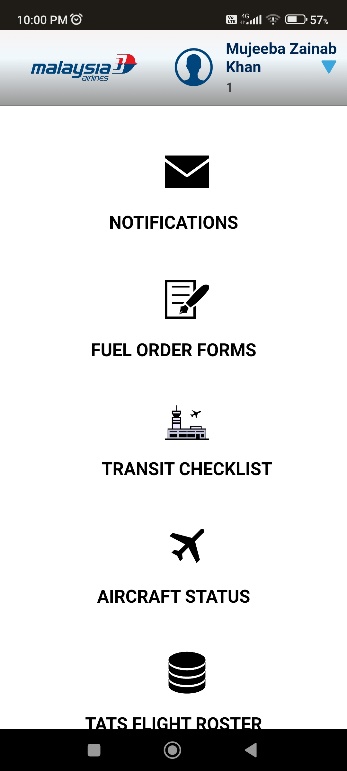


2. Mobile App

Login

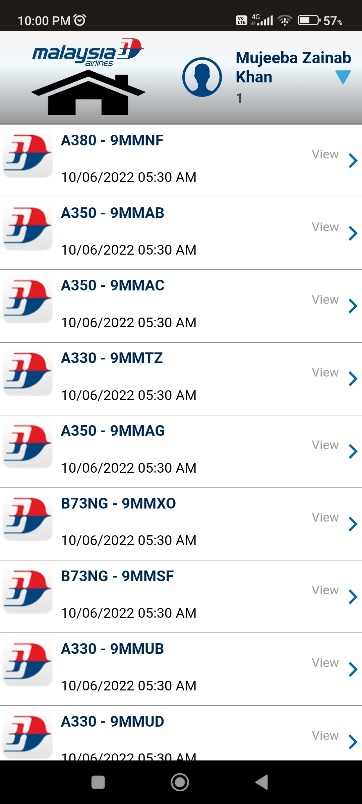
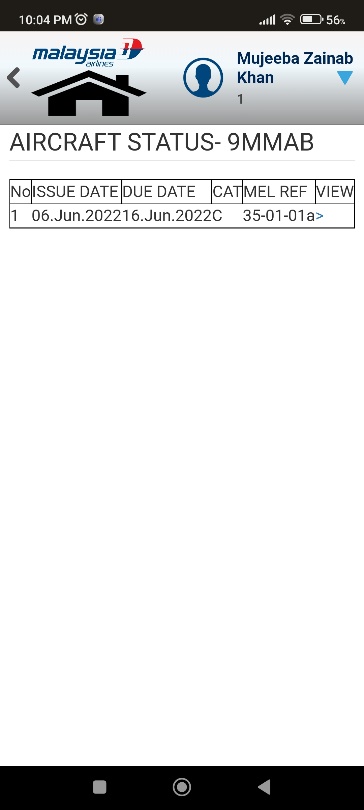


Landing Page



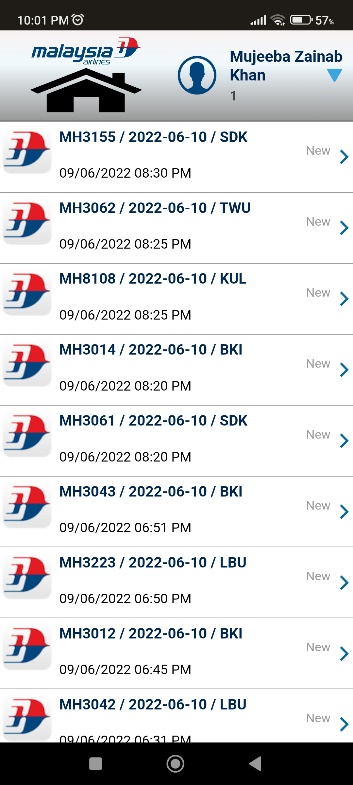
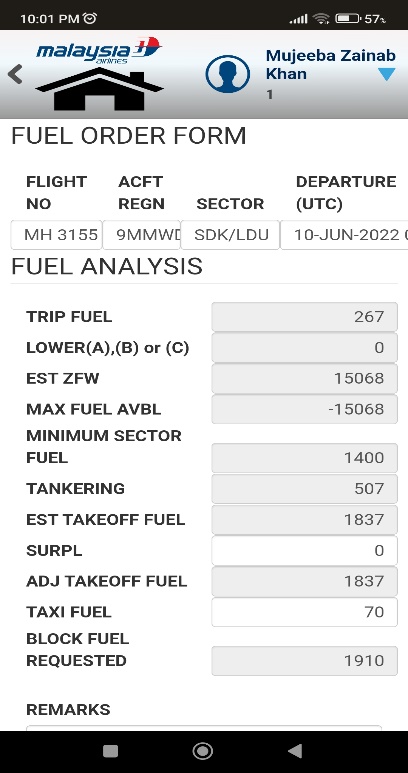
* FOF is accessible only by tech crew members and admin
* Transit check list data is received from AODB and TATS flight roster from TATS db
* Aircraft status - getting displayed via procedure which is getting called on AODB

Aircraft List Aircraft Status

Aircraft status are filtered now on the basis of admin staff list created in database.

Fuel Order Forms Fuel Order Form

Code Overview

Important points:

* We have 2 application context files in this application.
* In src folder
* In WEB-INF folder
* We have 3 databases in this application
* AODB (DB2)
* Mhmobile (MySQL)
* Tats/AODB2 (SQLServer)
* WSDL services- Web Services Description Language (WSDL) is a standard specification for describing networked, XML-based services. These services are in turn mapped with Java Service classes for integration with mobile app.
* wsdl service format – input/requests, methods, response – defined in wsdl classes.
* So, if in case a new requirement comes for mobile app we need to create a new wsdl service and once it is created you need to map it in server-config.wsdd.
* These are few wsdl service classes
* GetFormNotificationService
* ViewFormNotificationService
* BPMNotifcationService
* SaveFormNotificationService
* Getting the data in the form of json content from BPM and displaying it in html form in MHM. Once the form is submitted then it gets saved in the form of json content in notification table.
* Mobile app configuration - Cordova platform - Backbone.js
* nodal subset - PUSH notification functionality
* Mobile App setup within Eclipse for testing purpose

MHM application urls, server and DB details

Application URLs

|  |  |
| --- | --- |
| PROD | UAT |
| https://mhmessenger.malaysiaairlines.com | http://3mobapp.mas.net:8080/mhmessenger/ |

Server details

|  |  |
| --- | --- |
| PROD | UAT |
| MASG-1MOBAPP1 | MASG-3MOBAPP-LX |

UAT Deploymanager details

|  |
| --- |
| Link: http://3mobapp.mas.net:8080/Deploymanager/html  Username: tomcatusr  Password: MN7XwPFd |

DB details

|  |  |
| --- | --- |
| PROD | UAT |
| Server - MASG-1MOBDB1  Database: MySQL Port: 3036  Username: mobadm  Password: mobadm@456 (SSL certificates needed) | Server - 10.221.14.12  Database: MySQL Port: 3036  Username: srasadmin  Password: srasadmin123 (SSL certificates needed) |

BU n BIT

|  |  |
| --- | --- |
| Salleh Mustafa | salleh.mustafa@malaysiaairlines.com |
| Jamaludin Abu Bakar | jamaludin.abubakar@malaysiaairlines.com |

POCs

|  |  |
| --- | --- |
| FOFs | Capt. Mohd Jaafar Abdul Rehman |
| AODB | Syed Shabbudin |
| BPM | RajendraPrasad Vadla |
| T@TS | Veera Ashok Reddy |

Groups

|  |  |
| --- | --- |
| Email | GD\_AMS\_MHmessenger |
| Service Now | APP – MHMessenger |

LogPath

|  |
| --- |
| IP - 10.221.4.24  /tomcat/apache-tomcat/logs/MhMessenger\_Log.log |

Common Resolutions

* Unable to login – add the user in MHM app
* Password issue - These special characters ‘&’, '<', '>', '(' and ')' are not supported by web services of MHM.
* Application installation links

For android users –

<https://install.appcenter.ms/orgs/malaysia-airlines-berhad/apps/mhmessenger/distribution_groups/mhmessenger%20-%20release%20internal>

OR

<https://mabitdept-my.sharepoint.com/:u:/r/personal/ext_mujeebazainab_khan_malaysiaairlines_com/Documents/MHMessenger.apk?csf=1&web=1>

For iOS users –

https://install.appcenter.ms/orgs/malaysia-airlines-berhad/apps/mhmessenger-1/distribution\_groups/mhmessenger%20ios%20-%20release

* Latest version of MHM mobile app

Android – 5.2

iOS – 5.4