

## TECHNOLOGICAL SOLUTIONS FOR BAGGAGE HANDLING ON TIME PERFORMANCE









**Baggage Handling On Time Performance Management,** Is a system to monitor passenger's baggage from the aircraft through Baggage Claim area. This mobile-based application is expected to help passenger to provide valid and reliable about their luggage, especially the longest estimated time of baggage delivery (Last Baggage).

### **BAGGAGE HANDLING FLOWCHART**









Real time information for Passenger about first & last baggage handling



### **IPERFORM APPLICATION FOR BAGGAGE HANDLING**

Username

Password

person

required to log in.



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specific airport on the next page

Each user will be treated its confidentiality

On the first page of the application, user is

An active email is required to apply a username

Every user and password will only valid for one

After successful login, user will choose any









Select Sub Categories Partners to further enter into the Baggage handler application (Baggage OTP & Monitoring)

### **BAGGAGE ON TIME PERFORMANCE & MONITORING**





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### **START HANDLING BAGGAGE ON TIME PERFORMANCE**



To start baggage handling, the user selects Category BAGGAGE OTP, which is then directed to select the appropriate Airport where User uses Baggage Handling application



Page to start entering First Baggage & Last Baggage Time



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The list field is the Flight

order to be selected



Furthermore after selecting the appropriate Flight, User is aimed at Home Page Menu to be able to process the Baggage. On This Page Users press the First Bagagge Button first baggage until the conveyor belt and last baggage button at the last baggage until the conveyor belt

After the First Baggage button is pressed, the baggage delivery time calculation has started and is displayed on the Board conveyor

Regarding the Extra Time & Total Baggage button will be explained on the next page



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### **ON PROGRESS & FINISH PAGE**



For handling Baggage by Apps, User must select flight and press the First Baggage button, after that the process will be displayed at On Progress field

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← F <mark>light Nu</mark>	mber	۹
LIST	ON PROGGRESS	FINISH
GA 0239 Terminal 3U	Belt U7	Arrival Date 2016-12-30 15:21 Onblock Time 15:45
GA 0293 Terminal 3U	Belt U8	Arrival Date 2016-12-30 14:56 Onblock Time 15:20
GA 0165 Terminal 3U	Belt U11	Arrival Date 2016-12-30 15:32 Onblock Time 15:52
GA 0189 Terminal 3U	Belt U12	Arrival Date 2016-12-30 16:19 Onblock Time 16:47



The finish column is information about the flight that has been done baggage handling by the officer



### **TOTAL BAGGAGE HANDLING**



Total Baggage Handling page on application must be done by user, after ending baggage handling process (press finish button)



### **EXTRATIME**

This page will appear when the User presses the Extra Time button, this button works if the baggage handling process is delayed due to some constraints (weather, tools, operation .etc)

- 1. If the extra time is less than 10 minutes from Block On , then the officer will be redirected to the additional time page (Page Evidence 1);
- If the extra time is more than 10 minutes from Block On or the extra time button has been clicked twice in less than 10 minutes since Block On , then the officer must fill the evidence for the report (Page Evidence 2)











### EXTRA TIME 1



#### EVIDENCE 1 Column Filling is done if the extra time is less than 10 minutes since Block On.



Additional time is filled according to estimated requirement in baggage handling

Constraints are selected according to the state of the field

The user presses the SUBMIT key if the time column and the cause of the constraint are filled correctly

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### **EXTRATIME**

**<u>EVIDENCE 2</u>** Column Filling is done if the extra time is more than 10 minutes since Block On or if the extra time buttor has been clicked 2x in less than 10 minutes since Block On.





# CONTENT MANAGEMENT SYSTEM (CMS) BAGGAGE HANDLING ON TIME PERFORMANCE



### **PIE CHART BAGGAGE HANDLING**



AP II SYSTEM		iucky ilman 💮
lucky ilman Online	Overview	🏙 Home > Overview
묘 Overview	Filter	
≡ Report <	Periode 🗎 2017-01-01 - 2017-01-16 Q Submit	
	Chart Flight Handling Persen JS chart by anCharts Tidak Tercepal: 19.20%	

On the first page after logging in, the user can see on the top left side, there are User Profile and some Menu there is Overview, Report & User Management. On this Overview page, the user can see the view of a data on Flight Handling Chart presented in the form of Pie Chart & Bar Chart

The Blue on Pie Chart shows the baggage handling results achieved (First Baggage Below 20 Minutes and Last Baggage Below 40 Minutes), and the Yellow Color on the Chart Pie shows the baggage result that is not reached (First Baggage over 20 minutes and Last Baggage above 40 minutes )

### **BAR CHART BAGGAGE HANDLING**





Bar Chart Flight Handling is still contained in the overview page, the user can see the data handling luggage per day, on this page the user can change the date as needed to view the data.

The Blue Color on the Chart Bar shows the baggage handling results achieved (First Baggage Below 20 Minutes and Last Baggage Below 40 Minutes), and the Yellow Color on the Chart Pie shows the baggage handler results are not reached (First Baggage over 20 minutes and Last Baggage above 40 minutes )

### **REPORT BAGGAGE, FLIGHT LIST & MONITORING**





Show 10 entries Search:												
right 0	Ng 1	Packing (	Nock on v	Total Bagasi	Conveyor Belt	Filing 1	Labog (	Total handling	Delay	Delay reason		
GA-0111/PLM	NOREON		2017-01-18 14:42:00		U7				0			
GA-0657/MHQ	NOREGN		2017-01-18 14:42:00		- 10							
GA-0177/PHU	NOREGN		3017-03-08.34-40-00	58	1/30							
GA-0315/5UB	NOREGN	634	2017-01-18 14:39:00		U11							
GA-OBDS/ND1	NOREGN		2017-01-08 14-29-08	0	18	2017-01-18 14:47:14			0			
GA-0512/PNK	PHERU		2017-03-15 14:38:00	55	V12	2017-01-18 14:29:28	2017-03-18 14 36:43	18				
GA-0293/MLG	NOREGN	640	2017-01-1814-18-08	327	911	2017-01-18 14:42:53	2017-01-18 34-47.54	29				
GA-CS45/POG	PHEME		2017-01-18 14:05:00	128	u7	2017-01-18 14:15:09	2017-01-08 14:32:47	27	0			
6A-02010006	NOREGN	652	2017-03-18 13:48:00	207	19	2017-01-1814-0033	2017-01-18 34:00-44	18				
GA-0131/0./8	NOREGN		2017-01-18 13-40-00	31	19	2017-01-18 13:58:22	2017-01-18 14:06:36	26				

ľ	Data Flight List									
	Show 10	entries		Search						
	flight_number ()	airline_code()	long_name 0	parking_stand ()	reclaim_first_bag_time ()	code_share()	effective_date 0	eta_time_stamp ()	sta_time_stamp v	city_con
	0331	GA.	GARUDA INDONESIA	643	0000-00-00 00:00:00		2017-01-18	2017-01-18 23:25:00	2017-01-18 23:25:00	SUB
	0019	л	Lion Airlines	812	0000-00-00 00:00:00		2017-01-18	2017-01-18 23:25:90	2017-01-18 23:25:00	DPS
	0195	GA	GARUDA INDONESIA	G28	0000-00-00 00:00:00		2017-01-18	2017-01-18 23:00:00	2017-01-18 23:00:00	KNO
	0425	GA	GARUDA INDONESIA	656	0000-00-00 00:00:00	WY5425	2017-01-18	2017-01-18 22:40:00	2017-01-18 22:40:00	DPS
	0577	GA	GARUDA INDONESIA	642	0000-00-00 00:00:00	EY7148	2017-01-18	2017-01-18 22:25:00	2017-01-18 22:25:00	BPN
	0027	л	Lion Airlines	821	0000-00-00 00:00:00		2017-01-18	2017-01-18 22:25:00	2017-01-18 22:25:00	DPS
	0329	GA.	GARUDA INDONESIA	627	0000-00-00 00:00:00		2017-01-18	2017-01-18 22:05:00	2017-01-18 22:05:00	SUB
	0217	GA	GARUDA INDONESIA	635	0000-00-00 00:00:00		2017-01-18	2017-01-18 21:50:90	2017-01-18 21:50:00	J06
	0421	GA	GARUDA INDONESIA	E51	0000-00-00 00:00:00	EY7108	2017-01-18	2017-01-18 21:45:00	2017-01-18 21:45:00	DPS
	0413	GA	GARUDA INDONESIA	625	0000-00-00 00:00:00		2017-01-18	2017-01-18 21:35:00	2017-01-18 21:35:00	DPS
	Showing 1 to 10 of	3,325 entries (fill	tered from 15,923 to	tal entries)			Previous	2 3 4	5 333	Next

Data Monit	oring Flight								
Show 10	entries								
Status	flight_number	airline_code ()	fong_name 0	parking_stand	reclaim_first_bag_time	code_share [	effective_date	eta_time_stamp?	sta_time_stamp v
	0657	GA	GARUDA INDONESIA		2017-01-18 14:42:00		2017-02-18	2017-01-18 14:30:00	2017-01-18 14:50:00
Date:	0187	GA	GARUDA INDONESIA		0000-00-00-00-00-00		2017-01-18	2017-01-18 14:45:00	2017-03-18 14:45:00
	0177	GA	GARUDA INDONESIA		2017-01-18 14:40:00		2017-01-18	2017-01-18 14:36:00	2017-01-18 14:45:00
	6293	GA	GARUDA INDONESIA	641	2017-01-18-14:18:00		2017-01-18	2017-01-18-14-13-00	2017-01-18 14:40:00
and a	0133	GA	GARUDA INDONESIA	881	0000-00-00-00-00		2017-01-18	2017-01-18 14:40:00	2017-01-18 14:40:00
	0111	GA	GARUDA INDONESIA		2017-01-18 14:42:00		2017-01-18	2017-01-18 14:35:00	2017-01-18 14:30:00
	0605	GA	GARUDA INDONESIA		2017-01-18 14:29:00	897137	2017-02-18	2017-01-18 14:09:00	2017-01-18 14:25:00
	0507	л	Lion Airlines	A43	2017-01-18 14:18:00		2017-01-18	2017-01-18 14 10:00	2017-01-18 14:15:00
Date:	0567	GA	GARUDA INDONESIA	847	0000-00-00-00-00-00	EY8204	2017-01-18	2017-01-18 14:40.00	2017-01-18 14:10:00
	0315	GA	GARUDA INDONESIA	G34	3817-01-18 14:19:00	897119	2017-01-18	2017-01-18 14:25:00	2017-01-18 14:05:00

Report flight list serves to see the last update input data reclaim\_first\_bag\_time (onblock) from API PT AP 2, field name last update is LUP Report Baggage menu is a detailed reporting of aircraft that have been in the handle or not in the handle

For monitoring Block On time, if Block On time is still o but the time is more than 3 minutes sta\_time\_stamp, then the status will delay, but if Block On time is filled, then the status is done



# DIGITALIZE EFFECT FOR PASSENGER EXPERIENCE



#### OTP Baggage Handling year of 2017



OTP trend of
Baggage handling
increases
Total Delay
decreases

#### Jenny Jusuf 🤣 @JennyJusuf

This is why I despise flying with lugagges. Woy @IndonesiaGaruda lelet kali kalian, ini penumpang smp duduk2 kelamaan nunggu bagasi Щ(°Д°щ)



# - Uncertainty - Uninformed

Digitalize baggage arrival

monitoring

After

BELT 9

Before

#### **BAGGAGE CLAIM**

PENGAMBILAN BAGASI

 FLIGHT NUMBER
 FLIGHT ORIGIN
 FIRST BAGGAGE
 LAST BAGGAGE

 NOMOR PENERBANGAN
 ASAL PENERBANGAN
 BAGASI PERTAMA
 BAGASI TERAKHIR

 GA 0137
 P. PINANG
 00:00:00
 00:08:00

InformativeScheduled

2017-01-19 13:52:00 & KELUHAN / INFORMAT

& KELUHAN / INFORMATION & COMPLAINT : Garuda Indonesia Duty Mar

### **CCTV MONITORING AT BREAKDOWN AREA**







