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1. Document Purpose

The purpose of this document is to outline the module for APIs needed for integration with New PLUS Website (www.plus.com.my).

2. Project Overview

The integration needed in PLUS website is toll fare API, Incident report API by TIND and PUTRI chatbot integration.

PUTRI is PLUS Texting Realtime Interface Chatbot designed to interact with PLUS highway customers. PUTRI will be able to attend to multiple and simultaneous queries pertaining to PLUS highway service, toll fares, real-time traffic information, inquiries on PLUSMiles, product, facilities, RFID, promotions, as well as events.

TIND is TMC Incident and Notification Dashboard Report Portal that has been used by TMC's supervisor to submit any incident that happens along PLUS's highway. This Incident report will appear in PLUS Official Twitter (@plustrafik) and Incident Page in PLUS Mobile App.

Toll fare API is API that own by DIS PLUS that state all fare by from and to toll by vehicle class.

3. Scope

This integration among PUTRI, Toll Fare, TIND and PLUS Website aims to:

- Enable the appearance of the PUTRI chatbot on the PLUS Website.
- Assist customers in planning their journeys through the Toll Fare Calculator on the PLUS Website.
- Providing real-time updates on incidents within the PLUS Website.

4. Document Version

Version	Modified Date	Modified by
1.0 Initial Document	19 January 2024	Nur Fatin Hadirah Binti Mohamad Rodzali
2.0 Latest Abbreviation for Toll Plaza	29 January 2024	Nur Fatin Hadirah Binti Mohamad Rodzali



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Toll Fare API Details

URL Endpoint:

Production - <https://plusapp-api-prod2.azurewebsites.net>

1) Get toll fare API

- METHOD GET - `{{url}}/api/tolls/GetTollFare/from/to/class`
- Expected result

200 OK	Success
404 Not found	Invalid URL

c. Sample request:

METHOD GET - `{{url}}/api/tolls/GetTollFare/brt/sps/1`

d. Sample output:

Body	Cookies (2)	Headers (8)	Test Results	200 OK	33 ms	260 B	Save as example	...
Pretty	Raw	Preview	Visualize	Text	...			
1	1.80							

Category and Class for Toll Fare

Class	Vehicle Type
1	Car/SUV/MPV Pick-up Truck Van Minibus
2	2-axle Lorry
3	3-axle Lorry Car Towing Trailer Car towing caravan 4-axle Lorry 5-axle Lorry
4	Taxi
5	2-axle Bus 3-axle Bus



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Abbreviation for Toll Plaza

Plaza Code	Plaza Name	Plaza Abbreviation
110	Jitra	JTR
112	Hutan Kampung	HKG
113	Alor Setar (U)	ASU
114	Alor Setar (S)	ASS
121	Pendang	PDG
122	Gurun	GRN
123	Sungai Petani (U)	SPU
124	Sungai Petani (S)	SPS
132	Bertam	BRT
133	Sungai Dua	SGD
134	Juru	JRU
135	Bukit Tambun (U)	BTU
136	Bukit Tambun (S)	BTS
137	Jawi	JWI
138	Bandar Cassia	BCS
141	Bandar Baharu	BBR
142	Alor Pongsu	ALP
143	Bukit Merah	BKM
144	Taiping (U)	TPU
151	Changkat Jering	CKJ
152	Kuala Kangsar	KKS
154	Ipoh (U)	IPU
200	Penang Bridge	JPP
211	Ipoh (S)	IPS
212	Simpang Pulai	SPP
213	Gopeng	GPG
216	Tapah	TPH
221	Bidor	BDR
222	Sungkai	SKI
224	Slim River	PSR
226	Behrang	BRG
230	Bukit Tagar	BTR
231	Tanjung Malim	TGM
232	Lembah Beringin	LBB
233	Bukit Beruntung	BKB
234	Rawang	RAW



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235	Sungai Buloh	SGB
236	Rawang (S)	RWS
237	Sungai Buloh Hospital	HSB
238	Sungai Buaya	SBY
240	Kota Damansara	KDR
241	Jalan Duta	JLD
242	Damansara	DMR
243	Subang	SBG
244	Setia Alam	STA
245	Bukit Raja	BKR
251	Sungai Besi	SBI
252	UPM	UPM
253	Kajang	KJG
254	Bangi	BGS
255	Putra Mahkota	PPM
257	Nilai	NLI
258	Bandar Ainsdale	BDA
259	Southville City	PSV
311	Seremban	SBN
312	Port Dickson (U)	PDU
313	Port Dickson (S)	PDS
314	Senawang	SWG
315	Pedas Linggi	PLI
316	Mambau	MBU
317	Lukut	LKT
321	Simpang Ampat	SAT
322	Ayer Keroh	AKH
323	Tangkak	TGK
324	Jasin	JSN
325	Pagoh	PGH
326	Bukit Gambir	BGR
333	Yong Peng (U)	YPU
334	Yong Peng (S)	YPS
336	Ayer Hitam	AHT
337	Machap	MAC
341	Simpang Renggam	SPR
343	Sedenak	SDK
344	Kulai	KLI



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346	Skudai	SKD
347	Senai	SNU
352	Kempas	KPS
354	Bangunan Sultan Iskandar	BSI
461	Shah Alam	SHA
462	Ebor (U)	EBN
463	Ebor (S)	EBS
464	Seafield	SEA
465	USJ	USJ
466	Putra Heights	PHT
467	Bandar Saujana Putra	BSP
469	Putrajaya	PTJ
470	Bandar Gamuda Cove	BGC
471	KLIA	KLA
472	Bandar Serenia	BSR
501	Kubang Semang	KSG
502	Lunas	LUN
001	Tanjung Kupang	TTK
002	Perling	TTP
003	Lima Kedai	TLK



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TIND API Details

URL Endpoint:

Production - <https://plusprodaio.azurewebsites.net>

Staging - <https://plusuataio.azurewebsites.net>

1) Authentication API

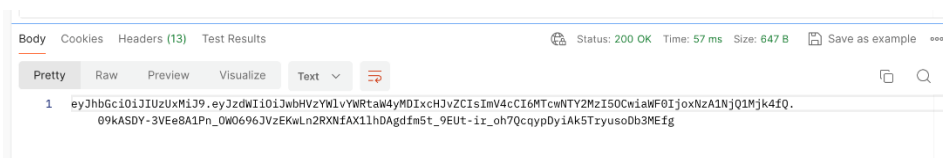
- METHOD POST - {{URL}}/authenticate
- BODY (json – raw)

```
{
  "username":"{{tokenusername}}",
  "password":"{{tokenpassword}}"
}
```

c. Expected result

200 OK	Success
400 Forbidden	Invalid credential

d. Sample output:





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2) Get All Incident API

- METHOD GET - `{{url}}/poi/incidents`
- Header
 - Authorization – Bearer `{{token}}`
- Expected result

200 OK	Success
500 Internal Server Error	Token Invalid

d. Sample output:

```
Body Cookies Headers (12) Test Results
Pretty Raw Preview Visualize JSON
1 {
2   "code": "1",
3   "msg": "Incidents found",
4   "data": [
5     {
6       "Id": 143599,
7       "IncidentType": null,
8       "IncidentType": "B",
9       "DangetType": "",
10      "ImpairType": null,
11      "HighwayType": "",
12      "Direction": "U",
13      "RouteType": "LKA",
14      "RouteStatus": "B",
15      "KontraFlow": "",
16      "TrafficFlow": "TT",
17      "ClosingType1": "PA",
18      "ClosingType2": "HM",
19      "FromToll": "Ipoh (S)",
20      "ToToll": "Ipoh (U)",
21      "KORNAK": "Km 272.0 - Km 270.0",
22      "Body": "13:43hrs Kerja penyelenggaraan Km 272.0 - Km 270.0 arah Utara dari Ipoh (S) ke Ipoh (U). Lorong kanan ditutup. Trafik terkawal. Patuhi arahan papan tanda. Harap maklum. @linttrafik",
23      "Status": 1,
24      "TweetID": "1748219805972578996",
25      "CreatedDate": "2024-01-19T13:44:16.983+08:00"
26    },
27  ],
28 }
```



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PUTRI Integration - How to embed PUTRI in a website

For PUTRI embedded html please find in [folder](#) for pack PUTRI. Web developer must put all the material in that folder at the same path with the page that will use PUTRI.

Open "index.html" file and copy script in <HEAD> and paste in your <HEAD> page. Then ONE line in <body> must be paste anywhere in your <body> area.

PUTRI publish folder can be found [HERE](#).