

Digital Boarding Gates

Goal: To create mobile digital boarding gates to be used at stations with the most departures, such as Johannesburg & Cape Town Stations. These boards must swap between displaying the ‘Boarding Gate’ and the ‘Arrival/Departure’ boards.

Boarding Gate: This is to indicate to the passenger in which queue they are supposed to line up at. Display the Route Name, Route Code (maybe even Bus Number – not version 1). TV Aspect Ratio 16:9, 1920x1080p. Each TV calls a URL with a variable at the end which identifies which TV it is, for example JHB1. Basic UI design here, on the Boarding Gates Page.

<https://www.figma.com/design/mclgm2nmlC79UJq4xGTKQQ/Happy-Reports?node-id=207-72&t=Y5P2AhA9bfWUEW59-1>

Note that a “template” will [eventually] be provided for each brand name – all we need to do is add the route number and description to it. For version 1, make a basic HTML page based on the figma above.



Arrival/Departure Boards: These are already in-place, and are the exact same concept as in the airports. [Click here to see](#). The digits at the end of the URL represent the stop, which can be found in stop_details2.stop_serial. JHB Station is 219, Cape Town Station is 7.

[Another example](#)

BELLVILLE - ARRIVALS & DEPARTURES							
Carrier	Coach	Route	Route Description	Scheduled Arrival	Scheduled Departure	Status	Expected Arrival
Sleepliner	ICG233GP	2125	Cape Town To Windhoek	Tue 12:00	Tue 12:05	DEPARTED	Tue 12:10
Mainliner	ICG902GP	0142	Durban To Cape Town Via Bloemfontein	Tue 10:15	Tue 10:20	DEPARTED	Tue 12:15
Mainliner	ICG730GP	0156	Durban To Cape Town Via Port Elizabeth	Tue 09:20	Tue 09:25	DELAYED (2.5H - 3H)	Tue 12:18
Sleepliner	ICG235GP	2126	Windhoek To Cape Town	Tue 12:30	Tue 12:35	DEPARTED	Tue 12:15
Budgetliner Express	ICG8100GP	1640	Express Pretoria To Cape Town Via Bloemfontein	Tue 11:55	Tue 12:00	SLIGHT DELAY (30M - 1H)	Tue 12:39
Mainliner Express	ICG716GP	0152	Express Pretoria To Cape Town Via Kimberley	Tue 08:00	Tue 08:10	DELAYED (3H +)	Tue 13:22
Sleepliner	ICG254GP	2616	Pretoria To Cape Town Via Kimberley	Tue 13:35	Tue 13:40	DELAYED (1.5H - 2H)	Tue 15:23
Sleepliner	ICG813GP	2106	Pretoria To Cape Town Via Bloemfontein	Tue 13:00	Tue 13:10	DELAYED (2.5H - 3H)	Tue 15:35
Budgetliner	ICG8114GP	1174	Queenstown To Cape Town Via Port Elizabeth	Tue 07:00	Tue 07:05	DELAYED (3H +)	Tue 18:16
Sleepliner	ICG232GP	2106	Pretoria To Cape Town Via Bloemfontein	Tue 13:00	Tue 13:10	DELAYED (3H +)	Wed 01:43
Budgetliner	ICG8119GP	1174	Queenstown To Cape Town Via Port Elizabeth	Tue 07:00	Tue 07:05	DELAYED (3H +)	Wed 04:44

Sometimes they board multiple routes at one gate. (not supported in version 1)

Create table departure_tvs (

Screen_Id number, # unique / primary key

Name varchar2(10), # eg ct1 / ct2 / jhb1 – the name used in the URL the TV calls

Branch varchar2(20), # eg JNB Station – from select branch_name from branch_info where is_dealer='N' order by 1;

this also links from user_details.branch - more info below

Stop_serial number, # eg 219 for JNB Station

);

URL to use for the TVs:

<https://secure.intercape.co.za/g.php?ct1>

<https://secure.intercape.co.za/g.php?ct2>

<https://secure.intercape.co.za/g.php?jhb1>

<https://secure.intercape.co.za/g.php?jhb2>

(and so on)

The above page will check the database to see what needs to be displayed. It will “refresh” (check for updates) every 30 seconds. If the TV goes offline, it should show a ‘please check back later’ screen until it comes back online.

```
$who = $_SERVER["REQUEST_URI"];
```

```
$bits = explode("?", $who);
```

```
$id = str_replace("","",$bits[1]);
```

My suggestion would be to find the screen_id once, and then javascript will request updates in the background via API using the screen_id to avoid unnecessary database lookups from name to screen_id.

If no settings are found in the departure_tv_settings table for that screen, in this case it will load the arrival/departure board for that office into a frame/div. Note that this arrival/departure board has its own refresh – which must continue to work.

If the screen is in ‘arrival/departure board’ mode and does a ‘refresh’ and gets route details to show, it will replace the arrival/departure board with the “are you on the right bus” screen until once again the config tells it there are no routes to board.

Initially we’re going to only allow one route number per gate, but the next version will allow multiple route numbers – we are not sure yet whether we will put all of them on the screen at one or rotate.

Create table departure_tv_settings (

Screen_Id number,

Brand char(2), # e.g. IM / BI / IC -> this determines the logo at the top. route_details.carrier_code

Route_no char(4), # route_details.route_no

Route_Description varchar2(100) # route_details.description

);

Office Staff Management Tool:

Must be mobile friendly. A User logs in with their Intercape login, which is linked to a branch.

```
$user = getenv("REMOTE_USER");
```

```
select branch from user_Details where is_current='Y' and username='$user'
```

This branch then filters the TV's which are available for them to choose the route to display.

UI Options:

1. Each TV is represented by a rectangular field with the name of the TV as the heading, like JHB1. Next to that field for the TV, you have an input field where type in the Route Code, must be a search field that opens a dropdown list (avoids typos and select a route that exists). Next to that Route Code field would be a 'Add/Remove' button. If its blank, and you selected something to display, you then click the 'Add' button which then displays it on the TV. Once added, that button changes to 'Remove' which will then remove that Route code from being displayed, and returns to just displaying the Arrival/Departure Boards.

```
select carrier_code,route_no,description from route_details where date_to>=20241023 and date_from<=20241023;
```

IT Management Tool:

A simple tool to add / remove / entries in the departure_tvs table