

**SAT5990: Mobile Development  
Project Proposal**

**Title: Utility For International Student**

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**[Travel App]**

## Outline:

1.1 Introduction

1.2 Application Details

1.3 Displays

1.4 Conclusion

1.6 References

# INTRODUCTION

Currency converter and airport status are the most needed utility tools for traveller. Most of the time, traveller might not be conversant the a foreign currency, thus, an application would be handy. Also, the rise of delay occurrences happening at airports have made it necessary for air-commuters to have an application that can keep them abreast of airport status. Having these two applications together would really be great, my experience as an international student motivated this idea.

## APPLICATION DETAILS

Tools: Xcode 8

Language: Swift 3.0

Dependency: Internet Connectivity

Underlying Technology: Http Asynchronous Call

Currency Converter API Request:

Url: <https://api.fixer.io/latest>

HTTP Method(s): GET

Parameters: Currency code - the three letter code of the underlying currencies.

Sample Request:

<https://api.fixer.io/latest?symbols=USD,GBP,JPY,CNY,MXN,KRW,ZAR>

Currency Converter API Response:

Response Format: JSON

```
{
  "base": "EUR",
  "date": "2017-06-23",
  "rates": {
    "AUD": 1.4764,
    "BGN": 1.9558,
    "BRL": 3.7293,
    "CAD": 1.4783,
    "CHF": 1.0851,
    "CNY": 7.6413,
    "CZK": 26.297,
    "DKK": 7.4372,
    "GBP": 0.87805,
    "HKD": 8.7147,
```

```
"HRK": 7.403,  
"HUF": 309.13,  
"IDR": 14866,  
"ILS": 3.9572,  
"INR": 72.102,  
"JPY": 124.36,  
"KRW": 1271.2,  
"MXN": 20.162,  
"MYR": 4.791,  
"NOK": 9.4613,  
"NZD": 1.5345,  
"PHP": 56.117,  
"PLN": 4.232,  
"RON": 4.5715,  
"RUB": 66.668,  
"SEK": 9.77,  
"SGD": 1.5496,  
"THB": 37.927,  
"TRY": 3.9235,  
"USD": 1.1173,  
"ZAR": 14.453  
}  
}
```

#### Airport Status API Request:

Url: <https://services.faa.gov/airport/status>

HTTP Method(s): GET

Parameters: AirportCode - three letter airport code e.g., "IAD"

Sample Request: <https://services.faa.gov/airport/status/jfk?format=application/json>

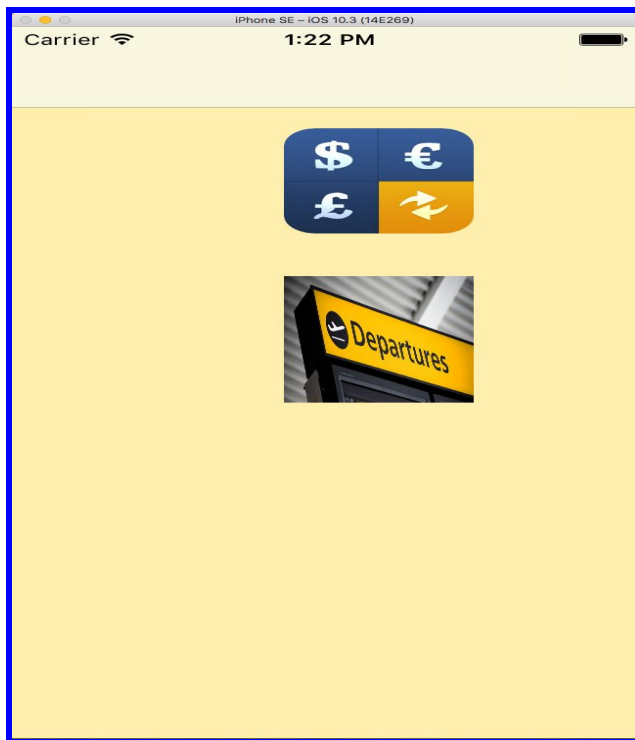
#### Airport Status API Response:

Response Format: JSON

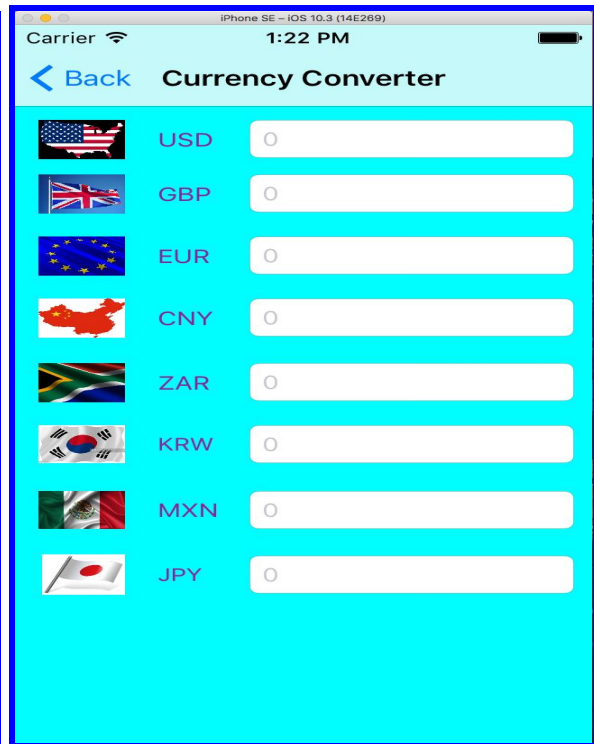
```
{  
  "delay": "true",  
  "IATA": "JFK",  
  "state": "New York",  
  "name": "John F Kennedy International",  
  "weather": {
```

```
"visibility": 1,  
"weather": "Heavy Rain Fog/Mist",  
"meta": {  
  "credit": "NOAA's National Weather Service",  
  "updated": "6:51 AM Local",  
  "url": "http://weather.gov/"  
},  
"temp": "71.0 F (21.7 C)",  
"wind": "North at 0.0mph"  
},  
"ICAO": "Kjfk",  
"city": "New York",  
"status": {  
  "reason": "WEATHER / THUNDERSTORMS",  
  "closureBegin": "",  
  "endTime": "7:45 am EDT.",  
  "minDelay": "",  
  "avgDelay": "",  
  "maxDelay": "",  
  "closureEnd": "",  
  "trend": "",  
  "type": "Ground Stop"  
}  
}
```

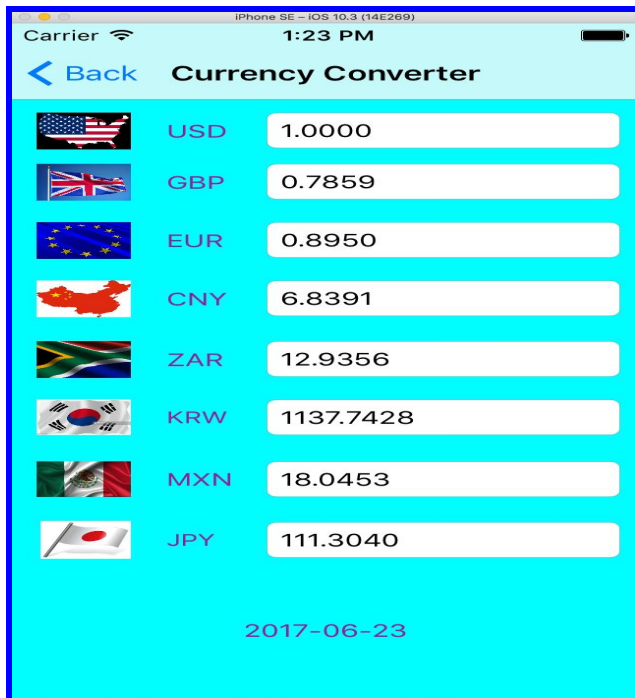
# DISPLAY



5. Main Page



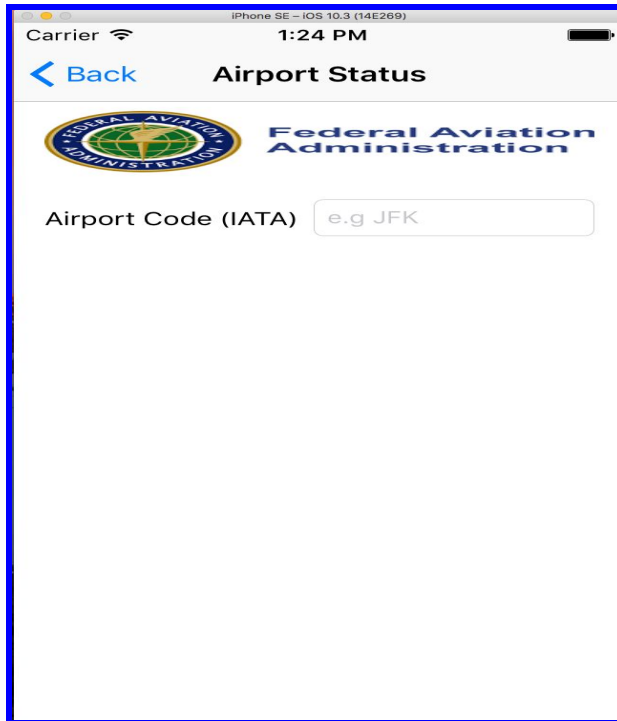
2. Currency Converter Default Page



3. Base currency is USD



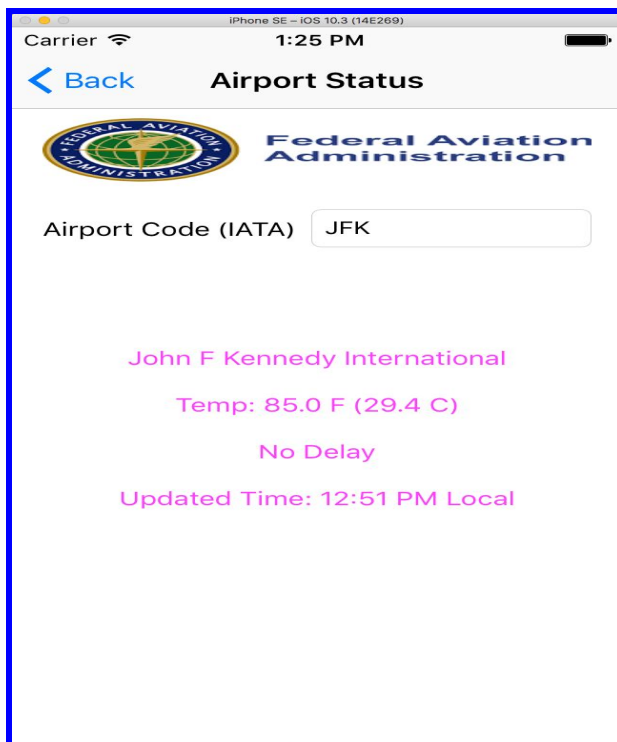
4. Base currency is JPY



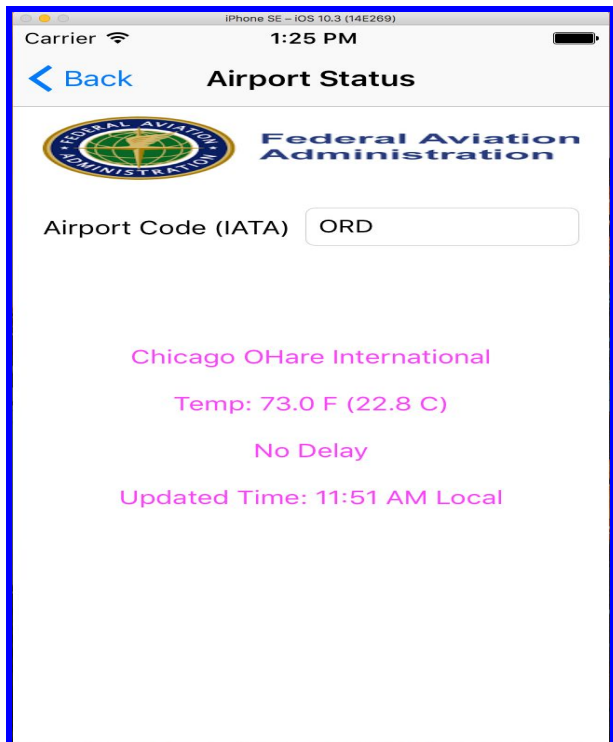
5. Airport Status Default Page



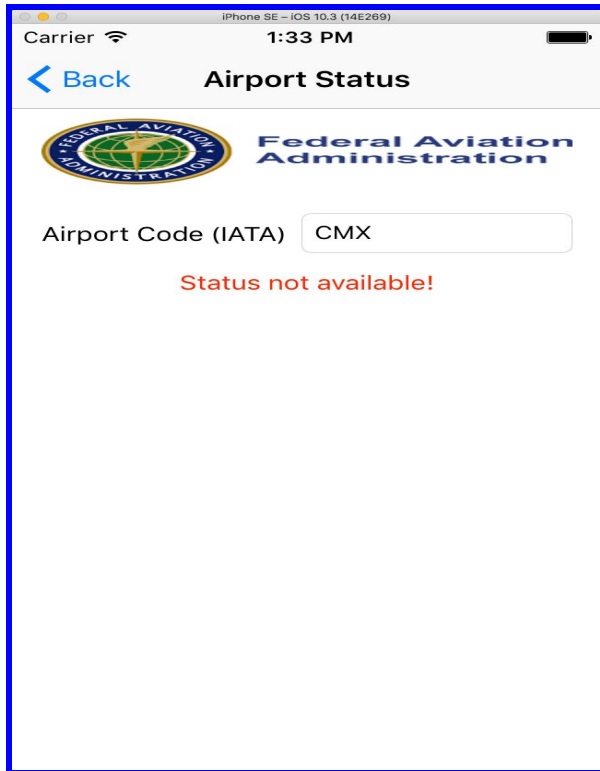
6. Invalid Code



7. Status of JFK Airport



8. Status of ORD Airport



9. Status of CMX Airport



10. Status of EWR Airport

## CONCLUSION

This is an awesome application that might be handy to local and international travellers. I look forward to improving this application and possibly launch in apple store.

## REFERENCE

- [1.] <https://services.faa.gov/>
- [2.] <https://jsonformatter.org/>
- [3.] <https://stackoverflow.com/>
- [4.] <https://api.fixer.io/latest?symbols=USD,GBP,JPY,CNY,MXN,KRW,ZAR>
- [5.] <https://developer.apple.com/swift/blog/?id=37>