

Updates : Dialogflow Fulfillment API v2.0 and a new Currency API (Fixer.io no longer available)

The fulfillment API on DialogFlow was recently updated to v2.0. And along with that, an integrated code editor that uses Firebase functions was also introduced. Updates will soon be rolled out, demonstrating the integrated code editor as well, however, for now, I'm sharing the updated version of the webhook code that you built over the last two lectures. This updated code will work with the new v2.0 of the APIs.

At the same time, Fixer.io as shown in the last lecture is no longer available for free usage. As a result, the code shown in the last lecture will fail. I've thus (for the time being) switched to the free API endpoint from [currencyconverterapi.com](https://free.currencyconverterapi.com) and the code shown below demonstrates how this can be used. In essence, you have to place a request in the following format:

Request : https://free.currencyconverterapi.com/api/v6/convert?q=USD_INR&compact=y
(Here, we want to convert USD to INR)

This returns a response : `{"USD_INR":{"val":68.755302}}`

So, all we have to do is use template literals to compose the property name to extract the result and return the value.

Also note the instructions at the end of this document:

MoneyBot Webhook Code (v2.0) using CurrencyConverter API (Free) instead of Fixer.io

```
'use strict';
const Restify = require('restify');
const server = Restify.createServer({
  name: "MoneyBot"
});
const request = require('request');
const PORT = process.env.PORT || 3000;

server.use(Restify.bodyParser());
server.use(Restify.jsonp());

const convertCurrency = (amountToConvert, outputCurrency, cb)
=> {
  const {
    amount,
    currency
  } = amountToConvert;
  return request({
```

```

    url:
    "https://free.currencyconverterapi.com/api/v6/convert",
    qs: {
      q: `${currency}_${outputCurrency}`,
      compact: 'y'
    },
    method: 'GET',
    json: true
  }, (error, response, body) => {
    if(!error && response.statusCode === 200) {
      let computedValue =
Math.round(body[`${currency}_${outputCurrency}`]['val'] *
amount);
      cb(null, `${amount} ${currency} converts to about
${outputCurrency} ${computedValue} as per current rates!`);
    } else {
      cb(error, null);
    }
  });
}

// POST route handler
server.post('/', (req, res, next) => {
  let {
    queryResult
  } = req.body;

  if(queryResult) {
    const {
      outputCurrency,
      amountToConvert
    } = queryResult.parameters;

    // Check if input currency code === output currency code
    if(amountToConvert.currency === outputCurrency) {
      const {
        amount
      } = amountToConvert;

      let responseText = `Well, ${amount} ${outputCurrency}
is obviously equal to ${amount} ${outputCurrency}!`;
      let respObj = {

```

```

        fulfillmentText: responseText
    }
    res.json(respObj);
} else {
    // Query the fixer.io API to fetch rates and create a response

    convertCurrency(amountToConvert, outputCurrency,
(error, result) => {
        if(!error && result) {
            let respObj = {
                fulfillmentText: result
            }
            res.json(respObj);
        }
    });
}

return next();
});

server.listen(PORT, () => console.log(`MoneyBot running on ${PORT}`));

```

Important Instructions

1. Go to the Config section (gear icon next to the name of the agent) and make sure V2 APIs are enabled. If you're creating a new agent, this would be by default.
2. In the fulfilment section, ensure Domains is set to 'Enable Webhook for all domains' and hit the save button on the page.