

1. Create a HTTP server in golang, that will receive request in below format

```
{
  "ev": "contact_form_submitted",
  "et": "form_submit",
  "id": "cl_app_id_001",
  "uid": "cl_app_id_001-uid-001",
  "mid": "cl_app_id_001-uid-001",
  "t": "Vegefoods - Free Bootstrap 4 Template by Colorlib",
  "p": "http://shielded-eyrie-45679.herokuapp.com/contact-us",
  "l": "en-US",
  "sc": "1920 x 1080",
  "atrk1": "form_varient",
  "atrv1": "red_top",
  "atrt1": "string",
  "atrk2": "ref",
  "atrv2": "XPOWJRICW993LKJD",
  "atrt2": "string",
  "uatrk1": "name",
  "uatrv1": "iron man",
  "uatrt1": "string",
  "uatrk2": "email",
  "uatrv2": "ironman@avengers.com",
  "uatrt2": "string",
  "uatrk3": "age",
  "uatrv3": "32",
  "uatrt3": "integer",
}
```

2. Create a Golang channel to send this request to a golang worker

3. Create a go worker that will receive the above message from the channel and convert into below format

```
{
  "event": "contact_form_submitted",
  "event_type": "form_submit",
  "app_id": "cl_app_id_001",
  "user_id": "cl_app_id_001-uid-001",
  "message_id": "cl_app_id_001-uid-001",
}
```

```
"page_title": "Vegefoods - Free Bootstrap 4 Template by Colorlib",
"page_url": "http://shielded-eyrie-45679.herokuapp.com/contact-us",
"browser_language": "en-US",
"screen_size": "1920 x 1080",
"attributes": {
  "form_varient": {
    "value": "red_top",
    "type": "string"
  },
  "ref": {
    "value": "XPOWJRICW993LKJD",
    "type": "string"
  }
},
"traits": {
  "name": {
    "value": "iron man",
    "type": "string"
  },
  "email": {
    "value": "ironman@avengers.com",
    "type": "string"
  },
  "age": {
    "value": "32",
    "type": "integer"
  }
}
}
```

and send it to <https://webhook.site/>

Notes:-

1) each request should process in a separate goroutine

2)

ev - event

et - event_type

id - app_id

uid - user_id

mid - message_id

t - page_title

p - page_url

l - browser_language

cs - screen_size

atrk - attribute_key

atrv - attribute_value

atrt - attribute_type

uatrk - user trait key

uatrv - user trait value

uatrt - user trait type

3) attribute - can be any numbers and attribute key, value, type can be any names

user trait - can be any numbers and user trait key, value, type can be any names

SAMPLE DATA

Input sample 1:

=====

```
{
  "ev": "contact_form_submitted",
  "et": "form_submit",
  "id": "cl_app_id_001",
  "uid": "cl_app_id_001-uid-001",
  "mid": "cl_app_id_001-uid-001",
  "t": "Vegefoods - Free Bootstrap 4 Template by Colorlib",
  "p": "http://shielded-eyrie-45679.herokuapp.com/contact-us",
  "l": "en-US",
```

```

    "sc": "1920 x 1080",
    "atrkl": "form_varient",
    "atrkl": "red_top",
    "atrkl": "string",
    "atrkl": "ref",
    "atrkl": "XPOWJRICW993LKJD",
    "atrkl": "string",
    "uatrkl": "name",
    "uatrkl": "iron man",
    "uatrkl": "string",
    "uatrkl": "email",
    "uatrkl": "ironman@avengers.com",
    "uatrkl": "string",
    "uatrkl": "age",
    "uatrkl": "32",
    "uatrkl": "integer",
}

```

Output sample 1

=====

```

{
  "event": "contact_form_submitted",
  "event_type": "form_submit",
  "app_id": "cl_app_id_001",
  "user_id": "cl_app_id_001-uid-001",
  "message_id": "cl_app_id_001-uid-001",
  "page_title": "Vegefoods - Free Bootstrap 4 Template by Colorlib",
  "page_url": "http://shielded-eyrie-45679.herokuapp.com/contact-us",
  "browser_language": "en-US",
  "screen_size": "1920 x 1080",
  "attributes": {
    "form_varient": {
      "value": "red_top",
      "type": "string"
    },
    "ref": {
      "value": "XPOWJRICW993LKJD",
      "type": "string"
    }
  },
  "traits": {

```

```
    "name": {
      "value": "iron man",
      "type": "string"
    },
    "email": {
      "value": "ironman@avengers.com",
      "type": "string"
    },
    "age": {
      "value": "32",
      "type": "integer"
    }
  }
}
```

Input sample 2:

=====

```
{
  "ev": "top_cta_clicked",
  "et": "clicked",
  "id": "cl_app_id_001",
  "uid": "cl_app_id_001-uid-001",
  "mid": "cl_app_id_001-uid-001",
  "t": "Vegefoods - Free Bootstrap 4 Template by Colorlib",
  "p": "http://shielded-eyrie-45679.herokuapp.com/contact-us",
  "l": "en-US",
  "sc": "1920 x 1080",
  "atrk1": "button_text",
  "atrv1": "Free trial",
  "atrt1": "string",
  "atrk2": "color_variation",
  "atrv2": "ESK0023",
  "atrt2": "string",
  "uatrk1": "user_score",
  "uatrv1": "1034",
  "uatrt1": "number",
  "uatrk2": "gender",
  "uatrv2": "m",
  "uatrt2": "string",
  "uatrk3": "tracking_code",
}
```

```
    "uatrv3": "POSERK093",
    "uatrt3": "string"
}
```

Output sample 2:

=====

```
{
  "event": "top_cta_clicked",
  "event_type": "clicked",
  "app_id": "cl_app_id_001",
  "user_id": "cl_app_id_001-uid-001",
  "message_id": "cl_app_id_001-uid-001",
  "page_title": "Vegefoods - Free Bootstrap 4 Template by Colorlib",
  "page_url": "http://shielded-eyrie-45679.herokuapp.com/contact-us",
  "browser_language": "en-US",
  "screen_size": "1920 x 1080",
  "attributes": {
    "button_text": {
      "value": "Free trial",
      "type": "string"
    },
    "color_variation": {
      "value": "ESK0023",
      "type": "string"
    }
  },
  "traits": {
    "user_score": {
      "value": "1034",
      "type": "number"
    },
    "gender": {
      "value": "m",
      "type": "string"
    },
    "tracking_code": {
      "value": "POSERK093",
      "type": "string"
    }
  }
}
```

Input sample 3:

=====

```
{
  "ev": "top_cta_clicked",
  "et": "clicked",
  "id": "cl_app_id_001",
  "uid": "cl_app_id_001-uid-001",
  "mid": "cl_app_id_001-uid-001",
  "t": "Vegefoods - Free Bootstrap 4 Template by Colorlib",
  "p": "http://shielded-eyrie-45679.herokuapp.com/contact-us",
  "l": "en-US",
  "sc": "1920 x 1080",
  "atrkl": "button_text",
  "atrkl": "Free trial",
  "atrkl": "string",
  "atrkl": "color_variation",
  "atrkl": "ESK0023",
  "atrkl": "string",
  "atrkl": "page_path",
  "atrkl": "/blog/category_one/blog_name.html",
  "atrkl": "string",
  "atrkl": "source",
  "atrkl": "facebook",
  "atrkl": "string",
  "uatrkl": "user_score",
  "uatrkl": "1034",
  "uatrkl": "number",
  "uatrkl": "gender",
  "uatrkl": "m",
  "uatrkl": "string",
  "uatrkl": "tracking_code",
  "uatrkl": "POSERK093",
  "uatrkl": "string",
  "uatrkl": "phone",
  "uatrkl": "9034432423",
  "uatrkl": "number",
  "uatrkl": "coupon_clicked",
  "uatrkl": "true",
  "uatrkl": "boolean",
  "uatrkl": "opt_out",
}
```

```
"uatrv6": "false",
"uatrt6": "boolean"
}
```

Output sample 3:

=====

```
{
  "event": "top_cta_clicked",
  "event_type": "clicked",
  "app_id": "cl_app_id_001",
  "user_id": "cl_app_id_001-uid-001",
  "message_id": "cl_app_id_001-uid-001",
  "page_title": "Vegefoods - Free Bootstrap 4 Template by Colorlib",
  "page_url": "http://shielded-eyrie-45679.herokuapp.com/contact-us",
  "browser_language": "en-US",
  "screen_size": "1920 x 1080",
  "attributes": {
    "button_text": {
      "value": "Free trial",
      "type": "string"
    },
    "color_variation": {
      "value": "ESK0023",
      "type": "string"
    },
    "page_path": {
      "value": "/blog/category_one/blog_name.html",
      "type": "string"
    },
    "source": {
      "value": "facebook",
      "type": "string"
    }
  },
  "traits": {
    "user_score": {
      "value": "1034",
      "type": "number"
    },
    "gender": {
      "value": "m",
      "type": "string"
    }
  }
}
```



```
    },
    "tracking_code": {
      "value": "POSERK093",
      "type": "string"
    },
    "phone": {
      "value": "9034432423",
      "type": "number"
    },
    "coupon_clicked": {
      "value": "true",
      "type": "boolean"
    },
    "opt_out": {
      "value": "false",
      "type": "boolean"
    }
  }
}
```