





Hi  ... I'm Abram!



Hi  ... I'm Abram!

(and that's Hailey)

A man wearing a dark blue baseball cap and a denim jacket over a collared shirt is looking down at a silver tablet he is holding in his left hand. In his right hand, he holds a black smartphone. He is standing in front of a white van, which is slightly blurred in the background.

# PROJECT BRIEF: PDF EXPORT

# SAMSARA DOCUMENTS

Let's drivers submit forms on-the-go

Often used for delivery receipts, fuel purchases, accident reports and more

You use Samsara... [Give it a try!](#)

# WHAT DO CUSTOMERS WANT?

Samsara Documents were designed for interactive environments

Customers want to share documents!

They also want to archive them

They started creating their own ways ... 🤔



# PLANNING

## PLANNING

PROCESS

Creative  
CONCEPT



# GOALS

PDFs should be fully featured (photos, digital signatures, etc.)

They should be visually appealing

They should be easy to consume (digital, physical, api)

Create a system that can be easily replicated on other teams

# NON-GOALS

Solve every team's PDF problems on the first pass

Ex: Dynamic chart rendering (canvas/svg)

# WHY IS THIS PROBLEM HARD?

PDFs present unique layout challenges

Most FOSS solutions are very low level

We've tried before and failed (leadership was reluctant) 😢

# THE ALTERNATIVES...

Web->PDF Rendering

Low level libraries

A photograph of a sunset over a field of tall grass. The sky is a gradient from dark blue at the top to orange and yellow near the horizon. The sun is a bright orange circle in the center. In the foreground, there's a dense field of tall, dry grass. A few bare branches from a fallen tree are visible on the left side.

**THE SOLUTION**

# THE CUSTOMER EXPERIENCE

A simple, delightful experience that customers appreciate.

Samsara

cloud.samsara.com/o/40256/fleet/reports/documents/1191396/1597264892103?duration=2592000&end\_ms=1598407522589

us4 Super User DocumentsAndMessaging

Back to Documents List

2 Images

Driver Form Details

A – 4

Submission Details

Driver Abram Simon

Received On Aug 12, 2020 4:41 PM

Driver Submitted On Aug 12, 2020 4:41 PM

Notes

Get PDF Edit Archive Delete

2\_Images-Abra...pdf Show All

# THE DEVELOPER EXPERIENCE

A familiar technology stack (react, typescript, golang)

Consistent operational footprint (deployment, monitoring)

# DEVELOPERS + DESIGNERS 😊

```
1 <Document>
2     <Page style={styles.body}>
3         <Text style={styles.header} fixed>
4             ~ Ono Food Co. ~
5         </Text>
6         <Text style={styles.title}>We're moving foo
7         <Text style={styles.author}>Stephen, Daniel
8         <Image
9             style={styles.image}
10            src="https://onoblends.co/static/33
11        />
12        <Text style={styles.pageNumber} render={({
13            ` ${pageNumber} / ${totalPages}`
14        })} fixed />
15    </Page>
```

# VS. THE ALTERNATIVE 😞

```
1 func ExampleFpdf_SetLeftMargin() {
2     var y0 float64
3     var crrntCol int
4     pdf := gofpdf.New("P", "mm", "A4", "")
5     pdf.SetDisplayMode("fullpage", "TwoColumnLeft")
6     titleStr := "20000 Leagues Under the Seas"
7     pdfSetTitle(titleStr, false)
8     pdf.SetAuthor("Jules Verne", false)
9     setCol := func(col int) {
10         // Set position at a given column
11         crrntCol = col
12         x := 10.0 + float64(col)*65.0
13         pdf.SetLeftMargin(x)
14         pdf.SetX(x)
15     }
```

# RESULTS

2 engineers totalled 52 working days over the course of 9 weeks

2 other teams have already replicated the solution

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# Q&A