*Investec

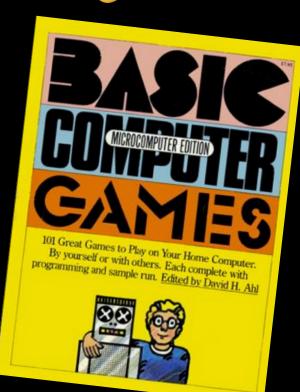
Opening Up
Financial Services
to Grow the SA
Tech Ecosystem

Wayne Summers | Head of Digital IT



I'm Wayne Summers

- Self taught developer
- Mainframes
- Developer in a banker's world
- Excited about the possibilities of tech



Why am I here?

*Investec

We believe that we can make a difference in growing the SA economy by growing the technology sector.

*Investec

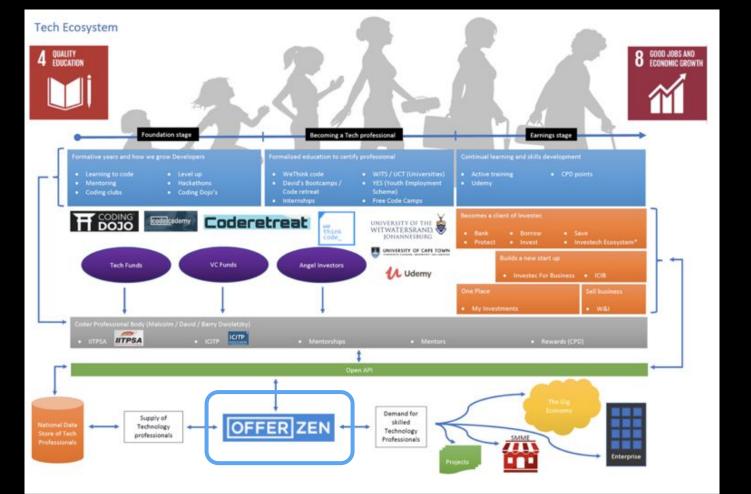
We believe that we can make a difference in growing the SA economy by growing the technology sector.

growing the technology sector

more devs making more awesome software



How do we empower SA's devs?





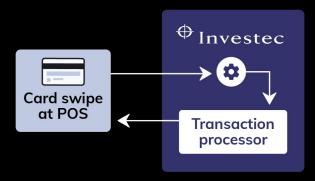


As a bank, the most impactful thing we can do for devs is to enable them to programmatically access their money and data.

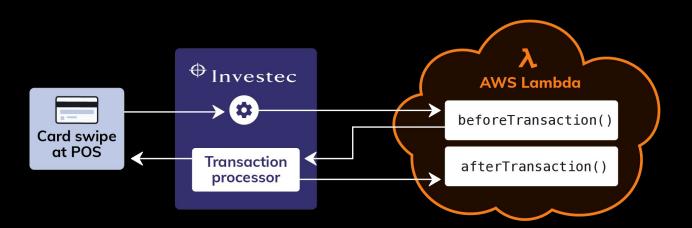


MVP Experiment

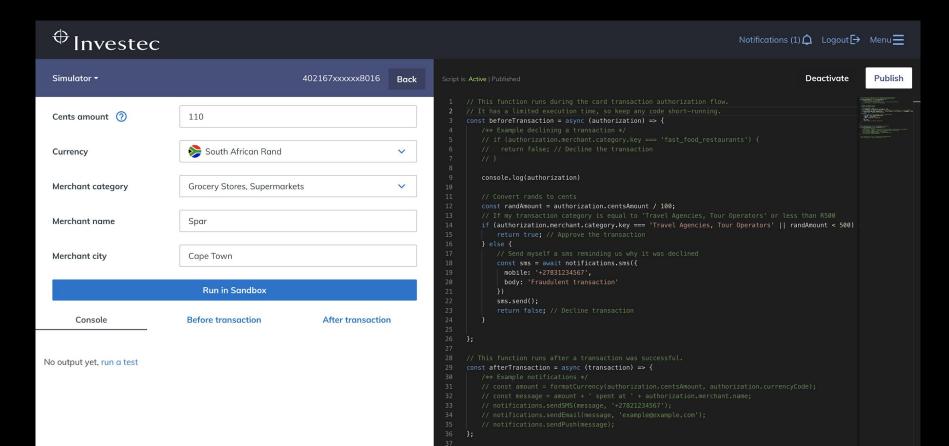
How cards work



Levelling up Investec cards - thanks Root;)



A hosted code editor



Simple use case demo



1. I want to budget and track my spend

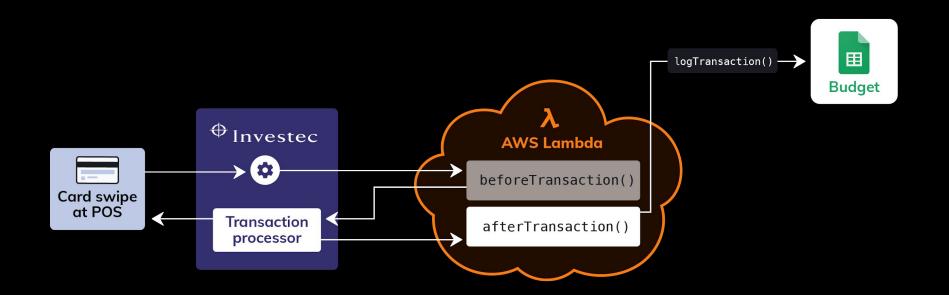
2. I want to get notified of my remaining limit

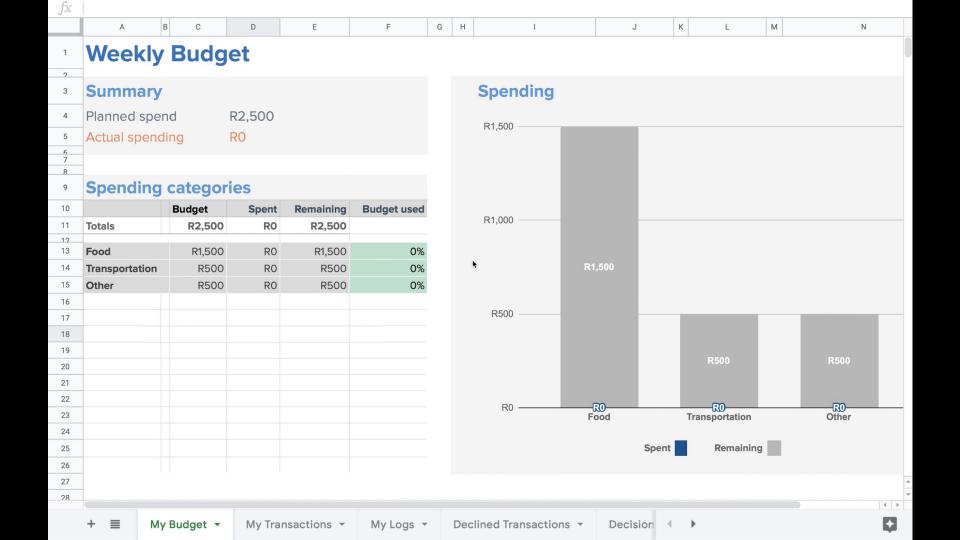
3. I want to stop myself from going over budget

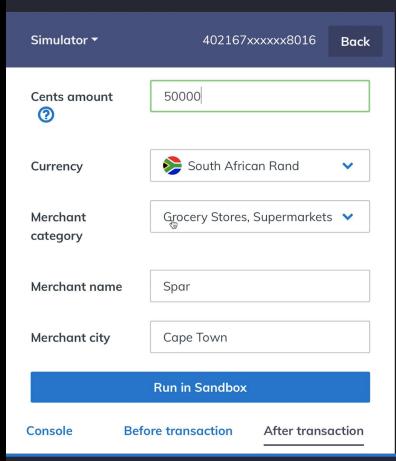


1. I want to budget and track my spend

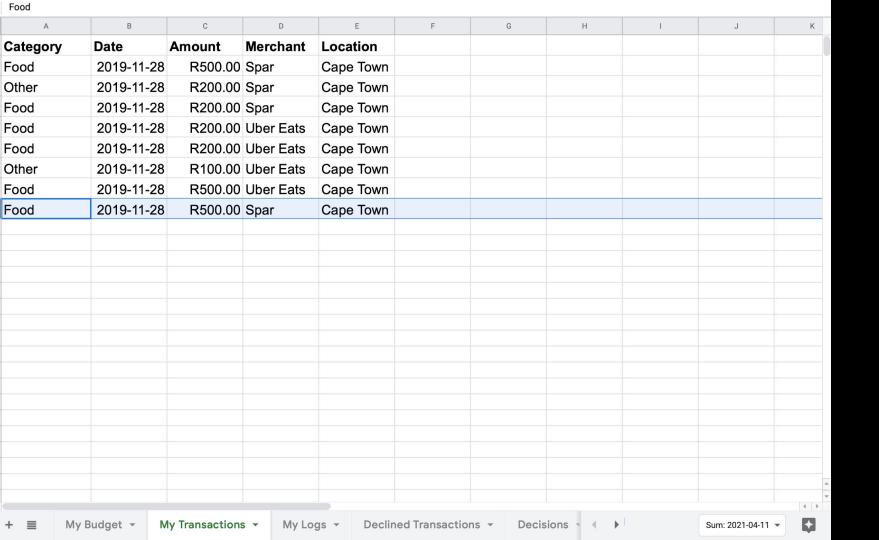
Pushing transaction data into Google Sheets using

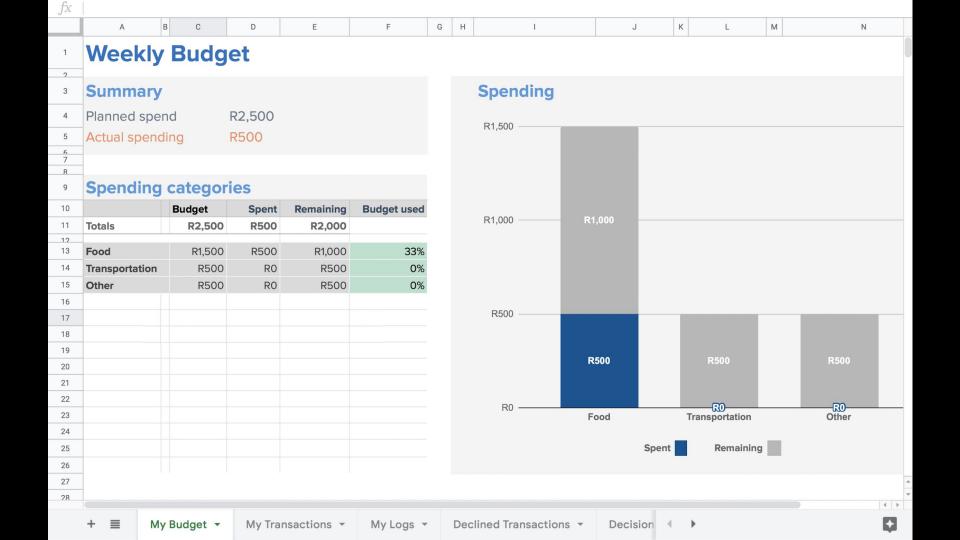






```
Deactivate
                                                                        Publish
Script is: Active | Published
      const beforeTransaction = async (authorization) => { };
      const afterTransaction = async (transaction) => {
          const sheetUrl = 'https://script.google.com/a/offerzen.com/mac
          const payload = {
              row: [
                  moment(transaction.dateTime).format('YYYY-MM-DD'),
                  moment(transaction.dateTime).format('HH:mm'),
                  helpers.format.decimal(transaction.centsAmount / 100,
                  transaction.currencyCode,
                  transaction.merchant.category.name,
                  transaction.merchant.name,
                  transaction.merchant.city
          const response = await fetch(sheetUrl, {
              method: 'POST',
              headers: { 'Content-Type': 'application/json' },
              body: JSON.stringify(payload),
          return true;
23
```

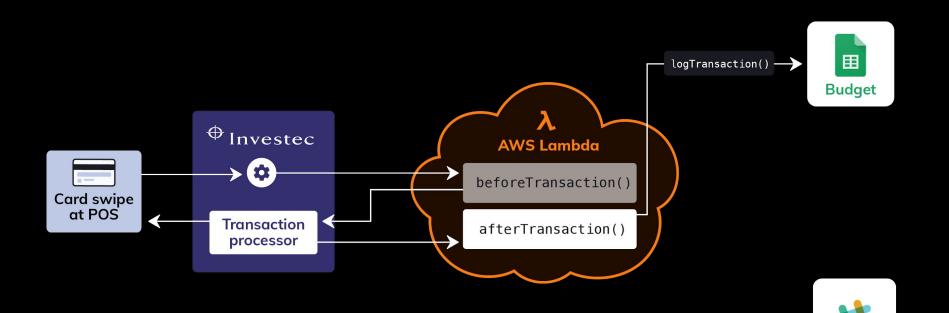




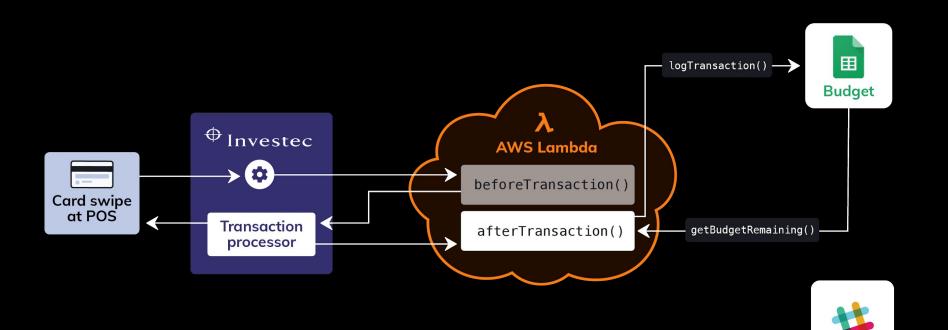


2. I want to get notified of my remaining limit

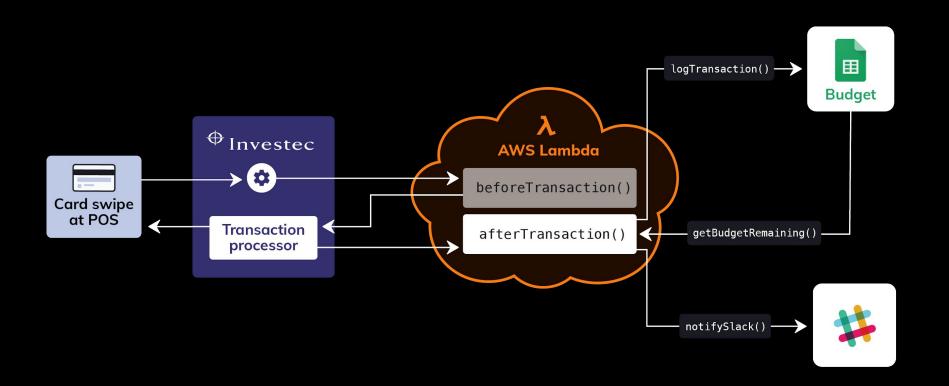
Reading data from sheets and posting to Slack in



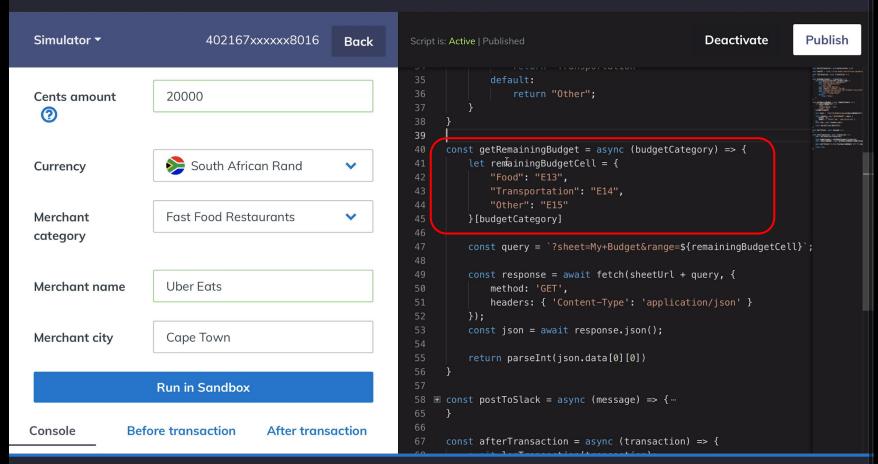
Reading data from sheets and posting to Slack in



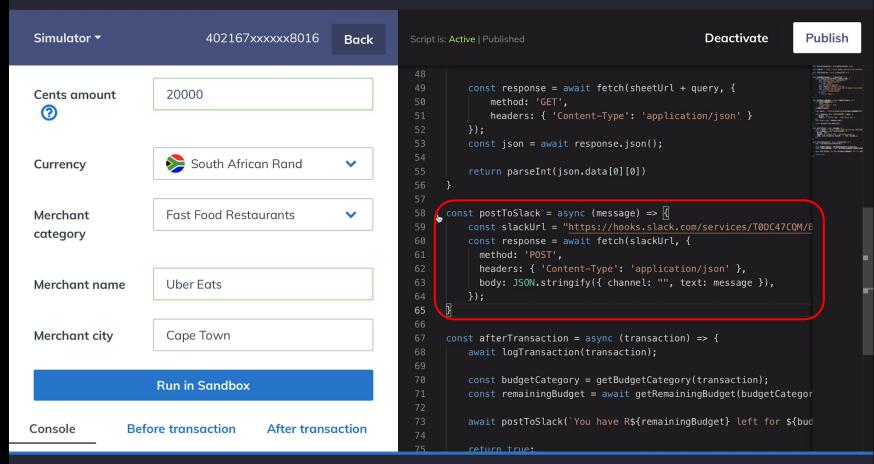
Reading data from sheets and posting to Slack in

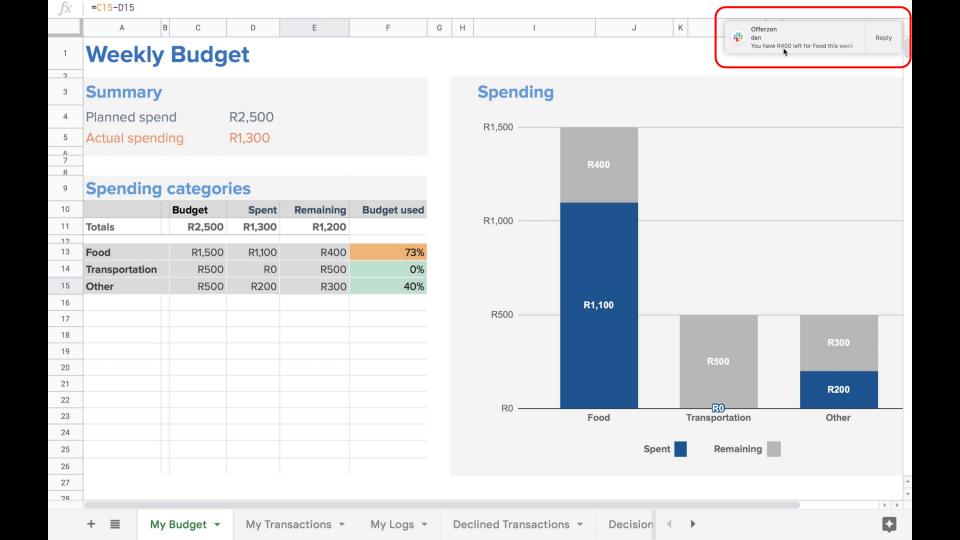








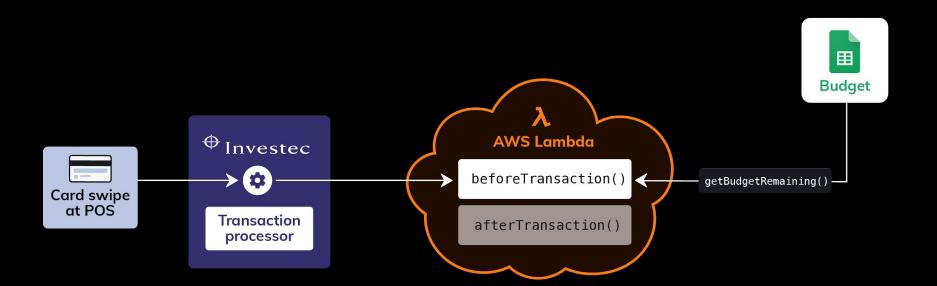




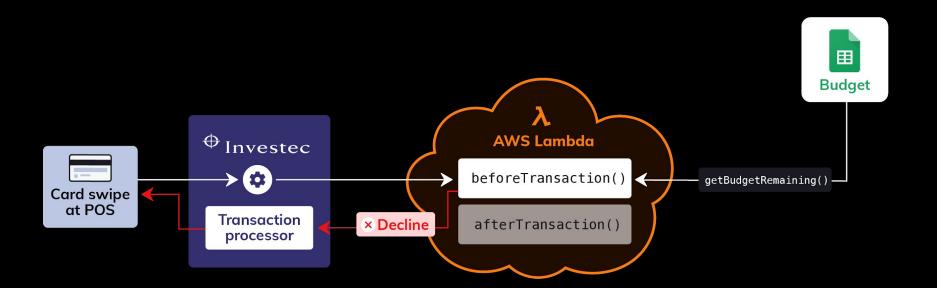


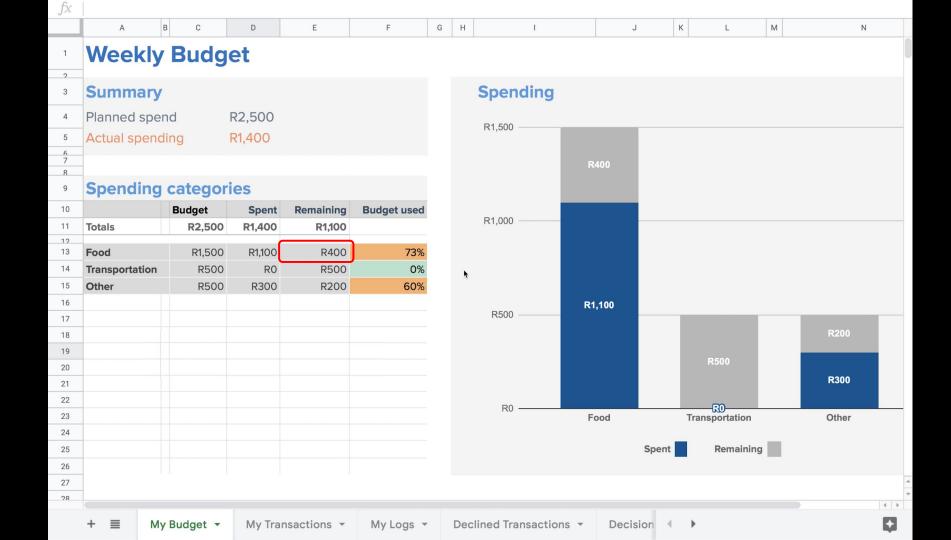
3. I want to stop myself from going over budget

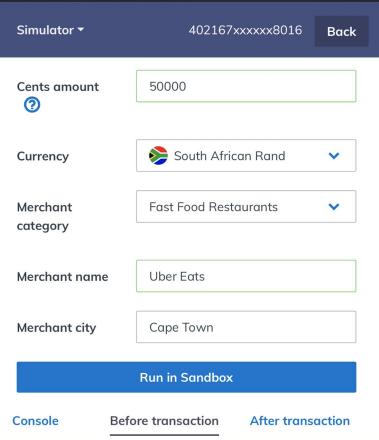
Using conditional logic in beforeTransaction()



Using conditional logic in beforeTransaction()

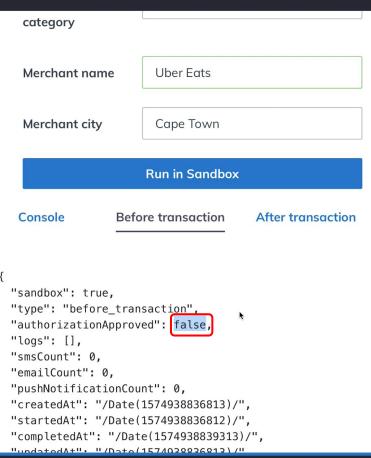




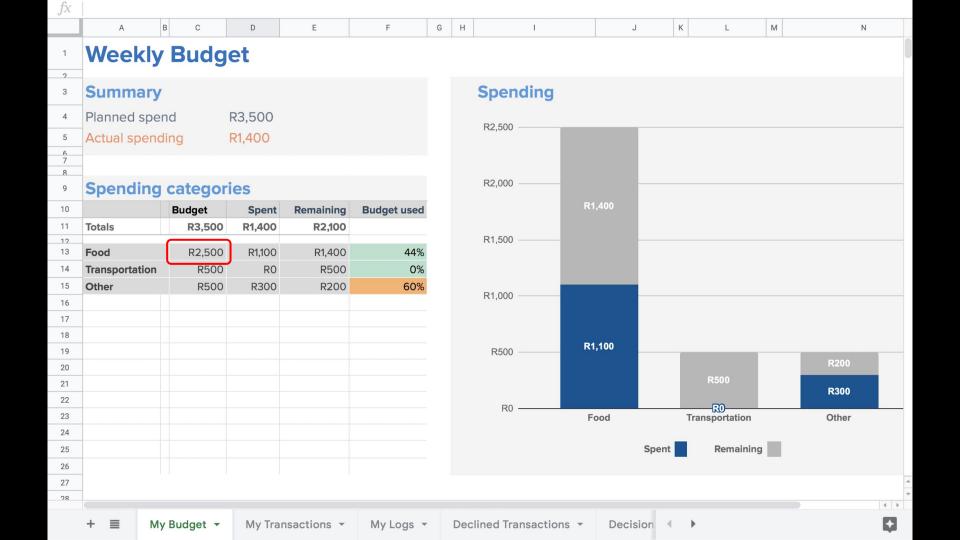


```
Script is: Active | Published
                                              Deactivate
                                                              Publish
     const beforeTransaction = async (authorization) => {
         const budgetCategory = getBudgetCategory(authorization);
        const remainingBudget = await getRemainingBudget(budgetCategor
         const authorized = authorization.centsAmount < (remainingBudge
         if(!authorized) {
            await postToSlack(`You are over budget for ${budgetCategor
         return authorized;
```





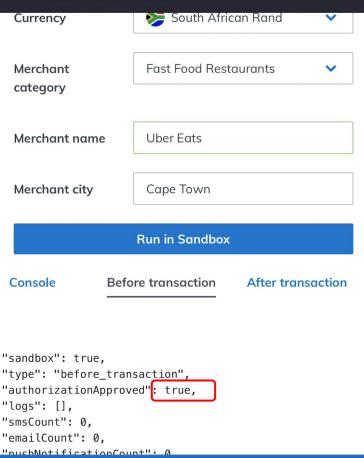
```
Deactivate
                                                              Publish
Script is: Active | Published
         const budgetCategory = getBudgetCategory(authorization);
         const remainingBudget = await getRemainingBudget(budgetCategor
69
         const authorized = authorization.centsAmount < (remainingBudg</pre>
         if(!authorized) {
            await postToSlack(`You are over budget for ${budgetCategor}
         return authorized;
```





Deactivate

Publish



```
Script is: Active | Published
         const budgetCategory = getBudgetCategory(authorization);
         const remainingBudget = await getRemainingBudget(budgetCategor
69
         const authorized = authorization.centsAmount < (remainingBudge</pre>
         if(!authorized) {
            await postToSlack(`You are over budget for ${budgetCategor}
         return authorized;
```

All the things



























```
⊕ Investec
     // This function runs during the card transaction authorization
    // It has a limited execution time, so keep any code short—running.
    const beforeTransaction = async (authorization) => {
        const randAmount = authorization.centsAmount / 100;
        if (authorization.merchant.category.key === 'Travel Agencies,
       } else {
           const sms = await notifications.sms({
            mobile: '+27831234567',
            body: 'Fraudulent transaction'
          sms.send();
         return false; // Decline transaction
// This function runs after a transaction was successful.
const afterTransaction = async (transaction) => {
   st afterfransaction — asymc (transaction) — (const amount = formatcurrency(authorization.centsAmount,
   authorization.currencycode);
const message = amount + ' spent at ' + authorization.merchant.name;
  notifications.sendSMS(message, '+27821234567');
```

notifications.sendsmatumessage, *2/021234307/,
notifications.sendEmail(message, 'example@example.com');

notifications.sendPush(message);



Community Beta

offerzen.com/community/investec

Questions?