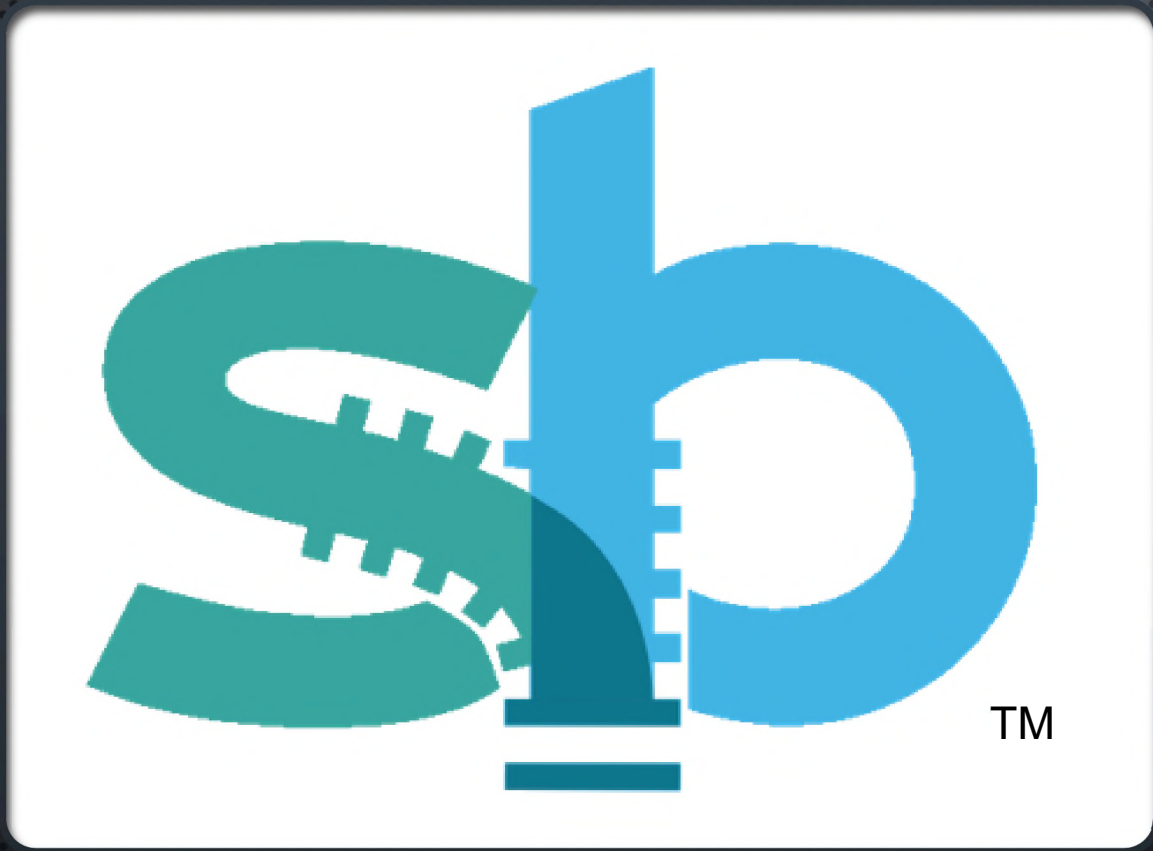


OPEN PROFESSIONAL GROUP

FOR THE PROFESSIONAL SOCIETY OF THE STATE OF TEXAS



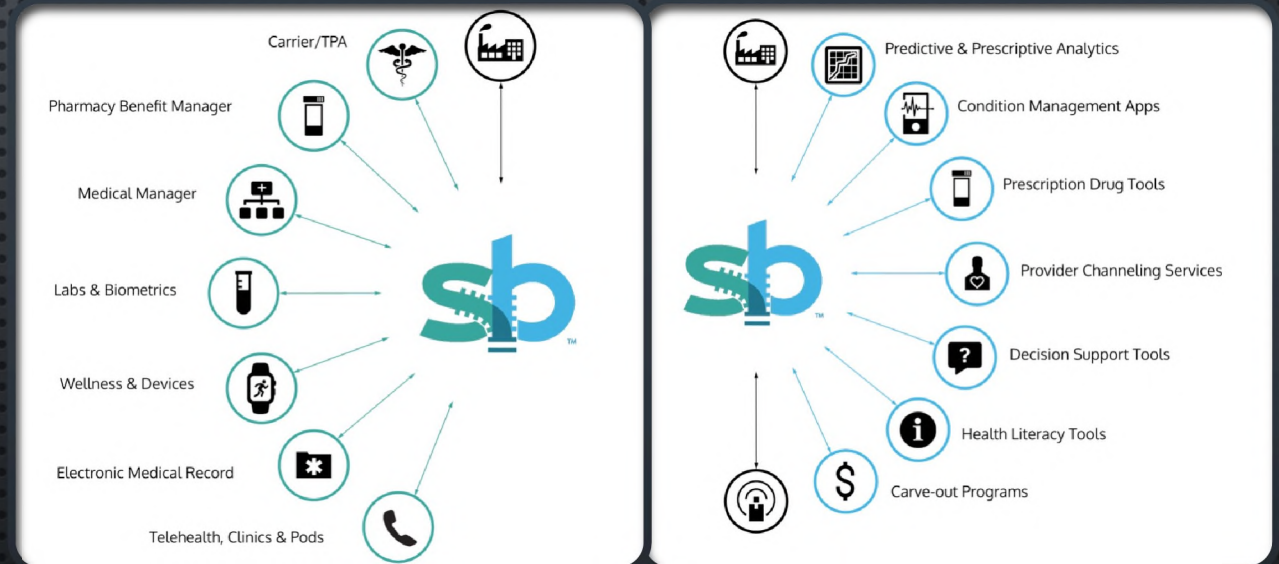
WHAT IS OPG?



SWITCHBRIDGE

BUSINESS MODEL EXAMPLE

- PRINGBUCK INTELLIGENCE
- SWITCHEDGE GET DATA FROM INSURANCE COMPANIES STANDARD
- SWITCHEDGE INGESTS DATA FROM OVER 100 HEALTHCARE COMPANIES CONVERTS IT TO A STANDARD FORMAT AND THEN EXPORTS THE DATA SPRINGBUCK NEEDS IN WHATEVER FORMAT SPRINGBUCK WOULD LIKE



OFFER

- AT THE END OF MY SUMMER AND INTERNSHIP WITH THE LEAD SOFTWARE ENGINEER AND ASKED IF I WOULD BE WILLING TO STAY ON BEYOND THE SCHOOL YEAR (ALONG WITH A RAISE AND A TITLE CHANGE)



Ingests data files
from insurance
companies

Validates
incoming data
format

Automates file
transfers

Setting up new
data source
connection

Task
management
system for dealing
with data issues

Custom reports of
data quality

Schedule with
upcoming
deliveries

CRM for insurance
and client
contacts

COACH

TECHNOLOGY

- PHP
- LARAVEL
- MySQL
- JAVASCRIPT
- BOOTSTRAP
- GIT



```
e", m => {
  split(" ")
  ){
  "connect":
  ){
  clients.has(a[1])){
    .send("connected");
    .id = a[1];
  e{
    .id = a[1]
  clients.set(a[1], {client:
    .send("connected")

  id = Math.random().toSt
  id = id;
  set(id, {client: {
```

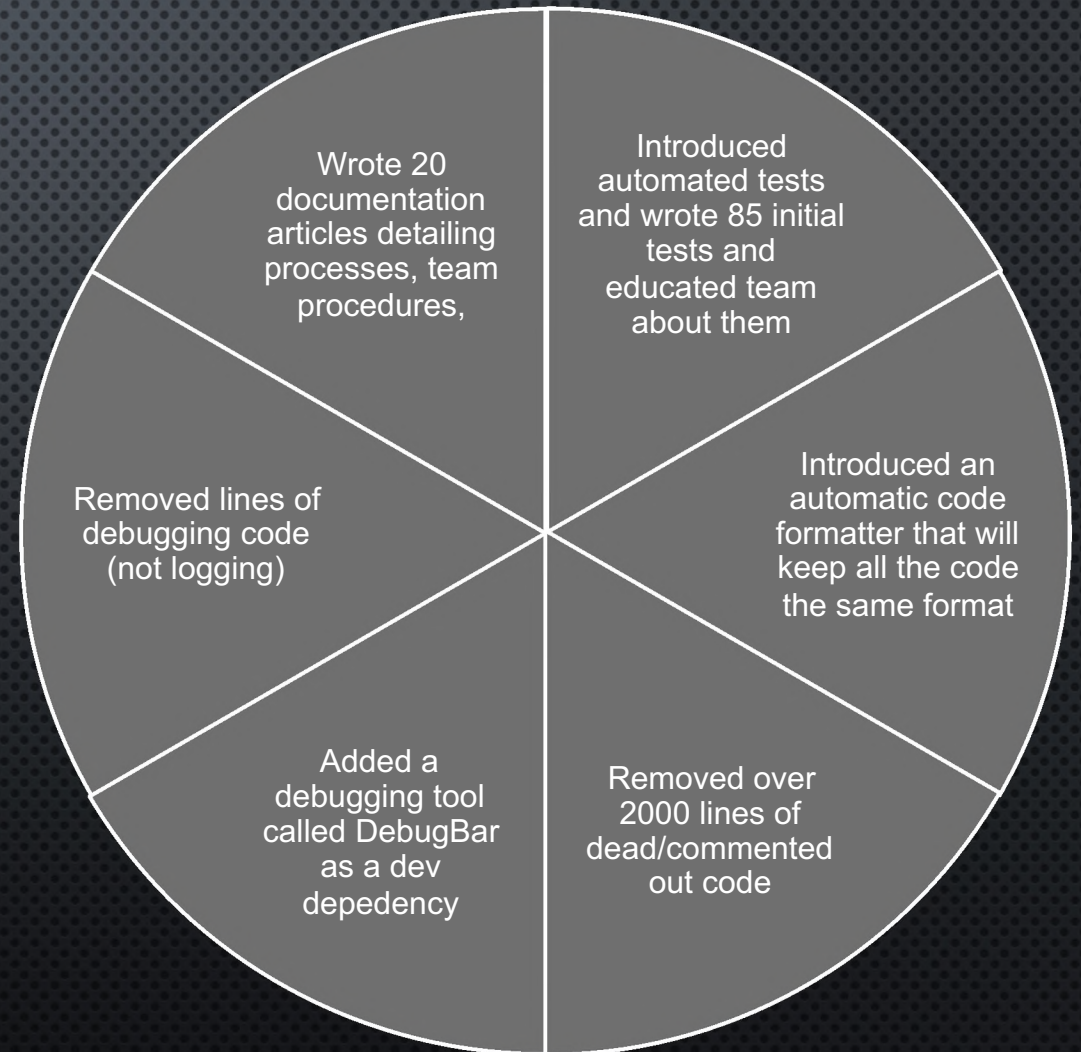
RESPONSIBILITIES

- SPECIFICATIONS
- UG
- PROGRAMMING EXPERIENCES
- QUALITY ASSURANCE
- CODE REVIEW
- CODE DEPLOYMENTS
- WORKING ON THE COACH APPLICATION

SELECT EXAMPLES

CODE QUALITY INITIATIVE (APRIL 2024)

- THE COMPANY HAS BEEN EXPERIENCING HIGH DEVELOPER TURNOVER OVER THE LAST YEAR (DUE TO THAT TIME)
- THIS HAS LED TO AN ACCUMULATION OF TECH DEBT THAT HAD MADE IT HARD TO ADD NEW FEATURES AND UNDERSTAND THE CODE
- THE TEAM LEAD ASKED ME TO WORK TO MAKE THE CODEBASE MORE READABLE AND TRY TO REDUCE COMPLEXITY



FILE TYPE SUPPORT INITIATIVE (NOV/DEC 224)

- WE INGEST A WIDE VARIETY OF FILES TYPES (XLSX, CSV, TXT, EDI/FIXED WIDTH, ZIPPED, ENCRYPTED, TAB DELIMITED, PIPE DELIMITED)
- FILE EXTRACTING/UNZIPPING LOGIC WAS DUPLICATED MANY PLACES ACROSS THE CODEBASE
- OUR DATA VALIDATION ENGINE WAS MISSING SUPPORT FOR A FEW IMPORTANT USE CASES
 - XLS FILES
 - ZIPPED XLSX/XLS
 - ENCRYPTED XLSX/XLS
 - ZIPPED EDI/FIXED WIDTH
 - ENCRYPTED EDI/FIXED WIDTH



CLASSES I USED

- DATABASE DESIGN AND IMPLEMENTATION
- SOFTWARE ENGINEERING AND II
- OBJECT ORIENTED PROGRAMMING

LESSONS

- WORKING WITH OTHERS BE
A GOOD PROGRAMMER
- THE LONGER YOU SPEND OPG,
FEATURES, BOILING DOWN TO THE
QUESTIONS FOR OTHER DEVELOPERS
DOWN CODING REVIEWS
- THINK BEFORE YOU CODE – 15
CONSTRAINTS AND GOALS CAN PREVENT YOU FROM CODING
YOURSELF INTO A CORNER
- CODE IS WRITTEN ONCE AND READ MANY TIMES



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