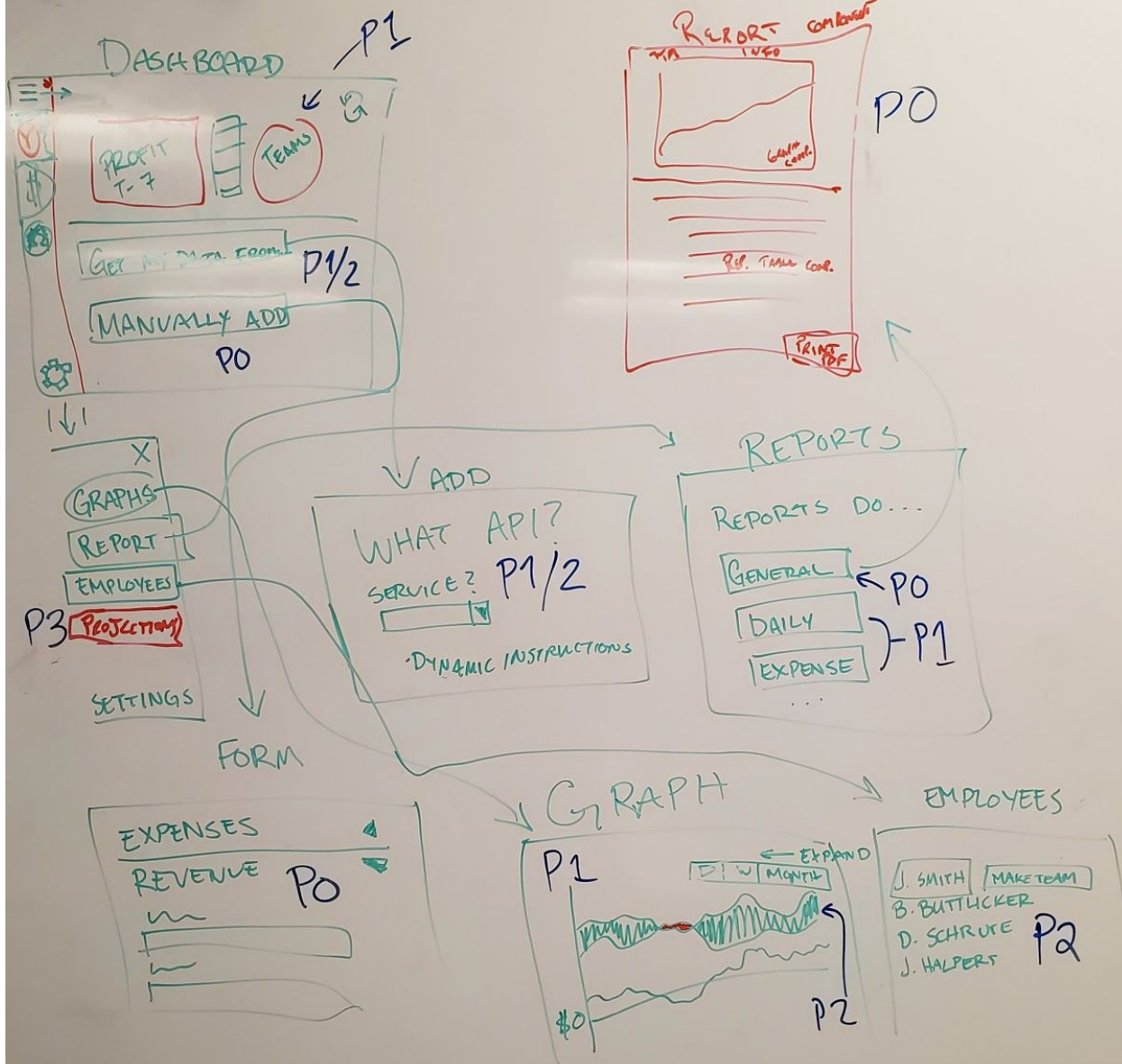# Business Analysis App

Summary

The intent is to build an app that allows small business owners to effectively visualize the financial aspects of their business without needing to grab a glossary or MBA textbook. We aim to integrate APIs of services these companies are already using, and leverage that data to provide insights, forecasting, and suggestions to business owners who might not have extensive business experience.

Wireframes

DASHBOARD P1

PROFIT T-7

TEAMS

GET API DATA FROM: P1/2

MANUALLY ADD PO

X
GRAPHS
REPORT
EMPLOYEES
P3 PROJECTION

SETTINGS

REPORT COMPONENT
VIA INFO

GRAPH COMP.

RGP. TABLE COMP.

PRINT PDF

PO

✓ ADD

WHAT API?

SERVICE? P1/2

• DYNAMIC INSTRUCTIONS

REPORTS

REPORTS DO....

GENERAL ← PO
DAILY } - P1
EXPENSE
...

FORM

EXPENSES
REVENUE PO

GRAPH

P1

D | W | MONTH ← EXPAND

$0 P2

EMPLOYEES

J. SMITH | MAKE TEAM
B. BUTTLICKER
D. SCHRUTE P2
J. HALPERT

Feature List

- P0
  - Determine daily revenue and expenses from provided data, and calculate gross profit from operations within the timeframe of the provided data on a daily basis
  - This information should be presented visually
  - The user should be able to generate reports on user-specified timeframes
    - Daily, weekly, monthly profitability reports
    - Itemized daily resource utilization reports
  - Allow users to manually add data via forms
- P1
  - App can get data from APIs that provide it via JSON
  - More robust reporting:
    - Highlight most and least profitable teams/clients for a given time period
  - Polish visual presentation, dynamic graphs
- P2
  - Integrate with most industry platforms/services; automated updating of records
  - Mobile site
  - Animations on visualizations
  - Financial forecasting, allow users to alter parameters of forecast
- P3
  - Mobile app
  - Calculate payroll costs for user location
  - Timecard system (paid feature)

Technical Considerations

- This app will utilize Node.js and Express.js for back-end routing and retrieval of API data
  - Service Monster, Jobber, T-Sheets
- Any information we host (User profile information, information they provide us directly) will be stored in a MySQL server
  - We will use Sequelize as our JavaScript ORM

- Front-end design will utilize Angular and D3 to dynamically present the financial information to the client
- We will deploy this project on an AWS EC2 instance

Work Distribution
- P0
  - CARMINE
    - Database design (MySQL, Sequelize)
    - Info retrieval & storage
    - Backend financial analysis logic
  - BRETT
    - Visual presentation of info & analysis (D3)
    - Report creation
- P1
  - TEAM CODING
    - Retrieve data from T-Sheets and use it for our analysis
  - CARMINE
    - Team structuring logic on server/db, assigned by user
  - BRETT
    - Generate more robust reports
    - Enhance graphs and visual presentation