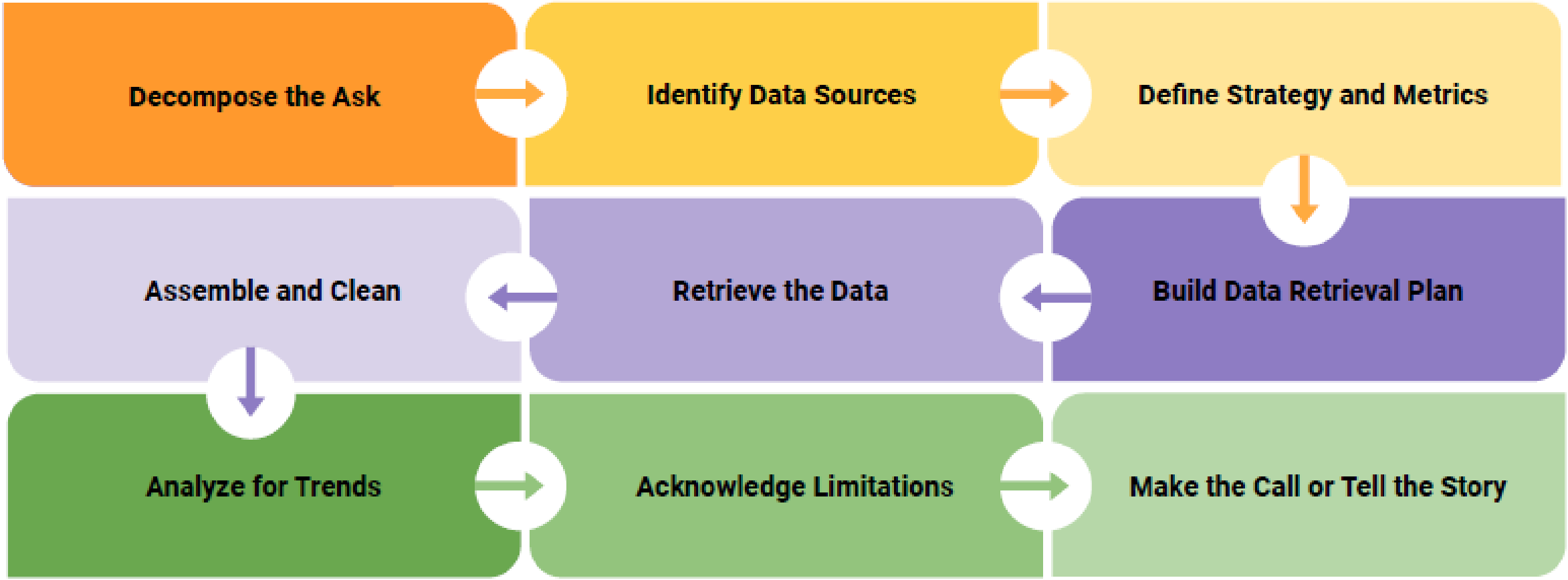
The Purpose of this document

- This document is a teaching tool presentation on how I might put together Project 3 in the University of Toronto boot camps. This project proposal is a start-to-finish high-level view of creating an elementary data platform with a JavaScript-based dashboard. This presents some basic how to set this up and my opinion on the best of the best as far as technology combinations for beginners looking to move into a data career.

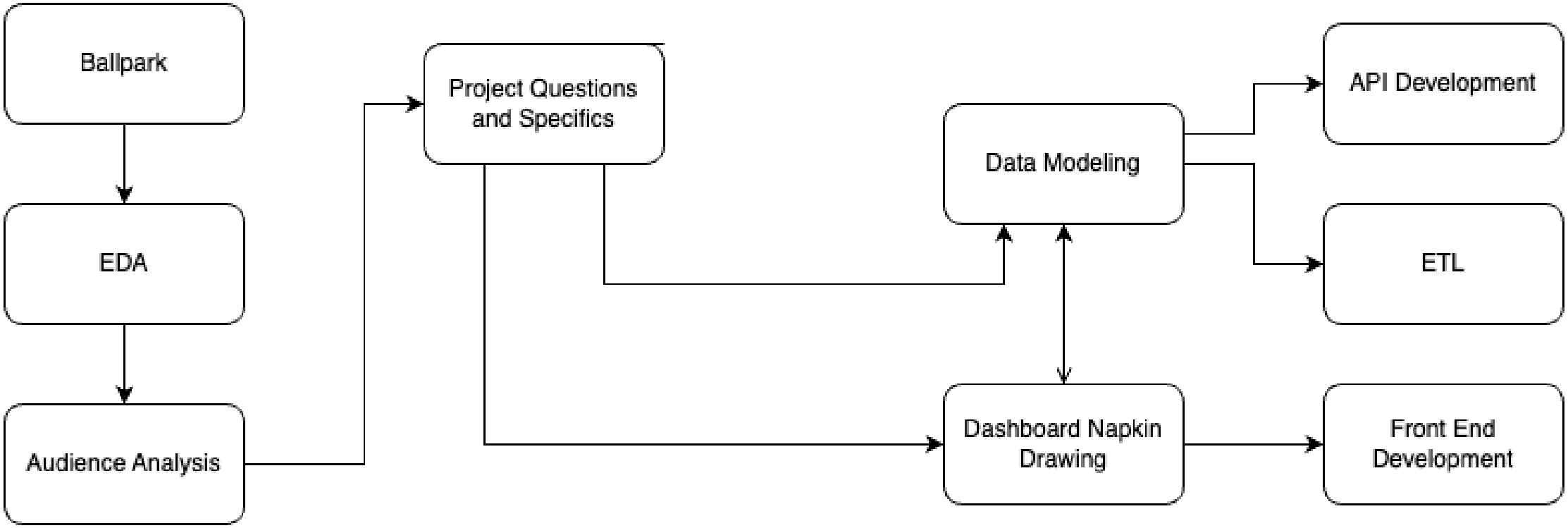
- It is, of course, opinionated based on experience.

Analytics Paradigm

Regardless of type or industry, this paradigm provides a repeatable pathway for effective data problem-solving.



Core Milestones of Dashboard Product



Consensus required on Ballpark

- What is the general topic ballpark, the actual goal will change after EDA and Data Collection.
- Must be the consensus.
- Understand the actual ask.

EDA is a Team Sport

- Everyone has to know about the data to proceed
- Should be day 0 and completed fast.
- Informs other components.
- If one person skips this, the group suffers.
- No Output product.

Decide or Understand the Audience

- Decide the specifics after the team does the EDA
- Before working on the WHAT, work on the

  WHO and the WHY.

Key Document Produced: User profile

- Individual Goals
- Individual Concerns of Stakeholders
- Usually a dashboard has a limited number of Key stakeholders

The What

- Decide the core questions your User profile can answer for themselves via the dashboard.
- With no stakeholder demands, get consensus on those questions.
- Remember you have different views.

- **Deliverable**: 5-7 questions that can be answered by the dashboard.

Data Modeling

What would we like to collect?

Must include the Core data needed by the Napkin Drawing, but could include more.

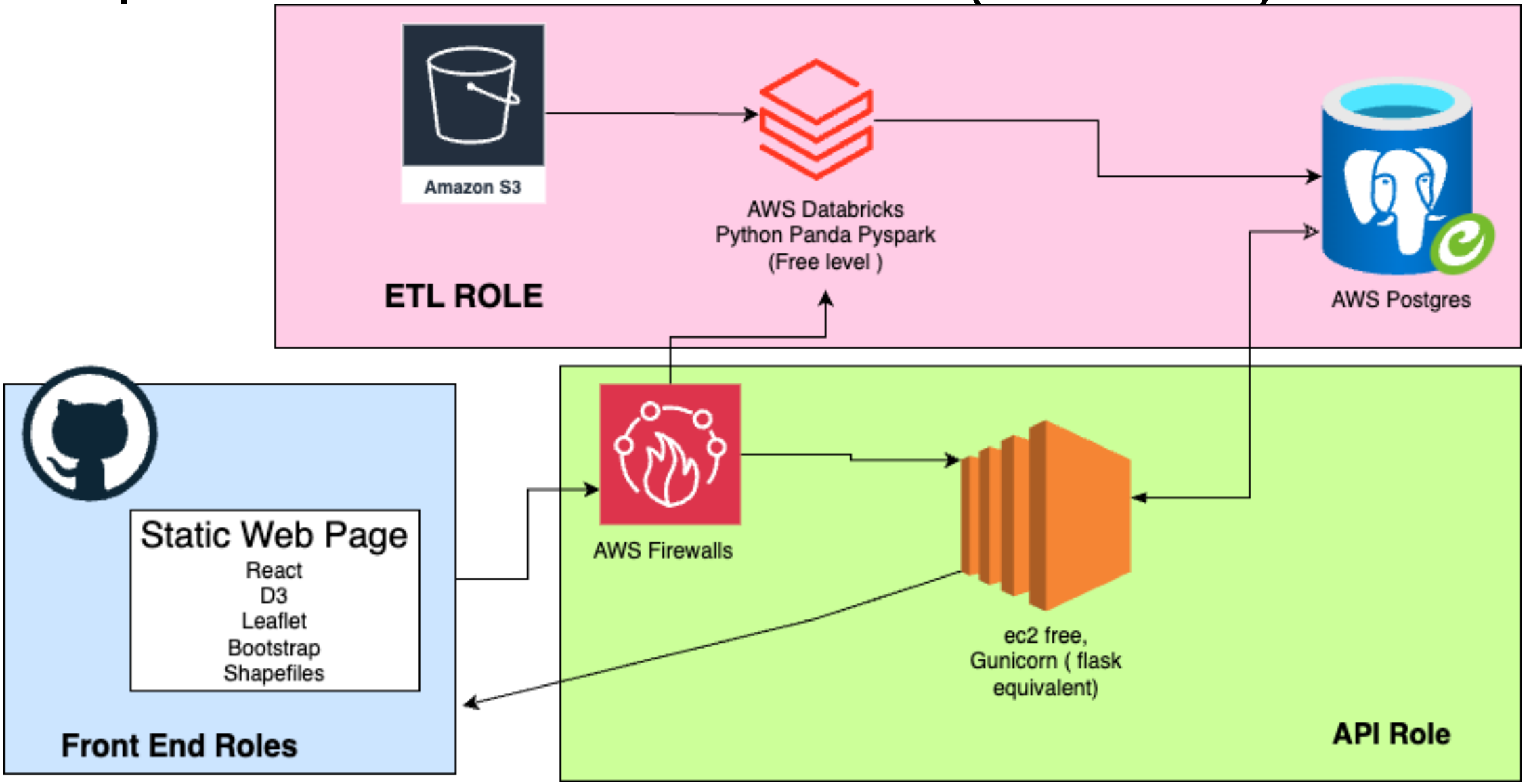
Deliverable: Database Schema

Napkin Drawing

What do we need to present, to answer the questions.

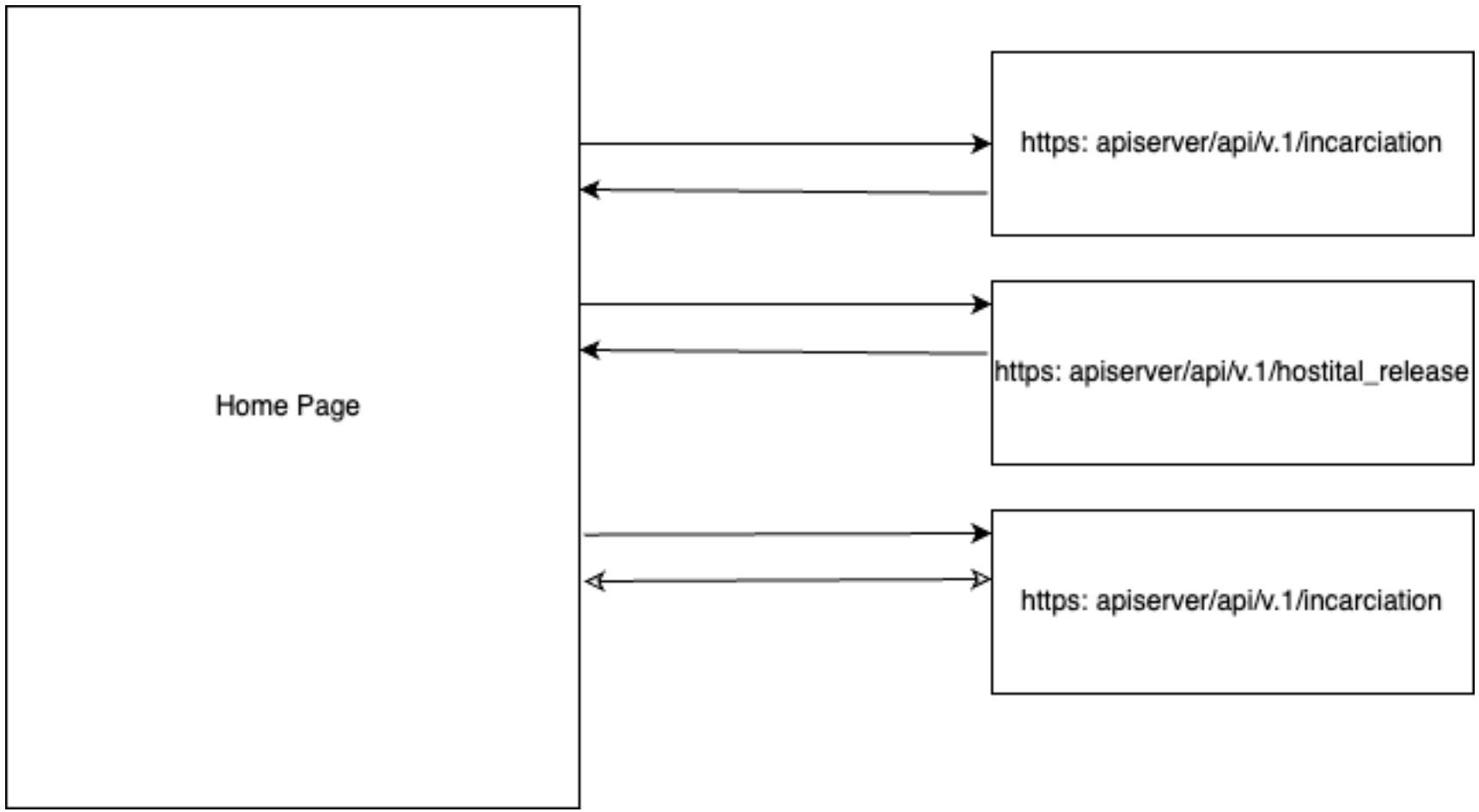
Deliverable: Napkin Drawings of the Dashboard via web pages. Mock up all the webpages, but most import at this stage is the dashboard components so you can figure out what data you need.

Simple Technical Architecture (For ETL)



Pages to Include in your Application

- Core Dashboard
- Introduction (Probably home the Home page)
- About us, include your content details) and git.
- Analysis (optional)


Home Page
https: apiserver/api/v.1/incarciation
https: apiserver/api/v.1/hostital_release
https: apiserver/api/v.1/incarciation

Mock Data is your friend and Next Step

- At this point, it is important to lay out what the routes of the API will be.
- Does not have to have real data, only that these will be the routes should be and what type of data is in each route.
- The entire team should create fake JSON files of data from each route. These mock JSON serve as the standard the API team produces, and the front end team should expect.

Why do this? The front-end team can get to work without waiting for the ETL and API parts to be finished. They just code off the mock data until the real data is ready.

All Teams can Begin.

- Once JSON files are created, all teams are unblocked and can start.
- API has the schema even if the data will change.
- Front End has the API routes, and what they can code against.
- ETL is not holding this project up.

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The Game has Changed

- Overall 80% of people out of bootcamps and school do eventually get work.
- We can speed the process of that up.
- The goal of the bootcamp is not the grade or to finish the challenge, it is to get a job.
- The bare minimum won't cut it for that purpose. Consider this project as the first portfolio project you would send to employers

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Beyond the Requirements

- This sample project goes beyond the requirements but not employer requirements.

- Additional Resume Skills
  - AWS
  - Beginning Architecture
  - Cloud Based ETL
  - Full Stack Development.

LIVE Web page is a high cool factor for a data bootcamp

Look Beyond the Project

- Consider creating a blog if you spend over 15 minutes looking something up.
- Share this on Linked In.
- Working on a project to host these,

Torontodata.ca

(not ready yet, but let me know if you are interested)

- Curated by Me.
- For past and present students.

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