Project 2
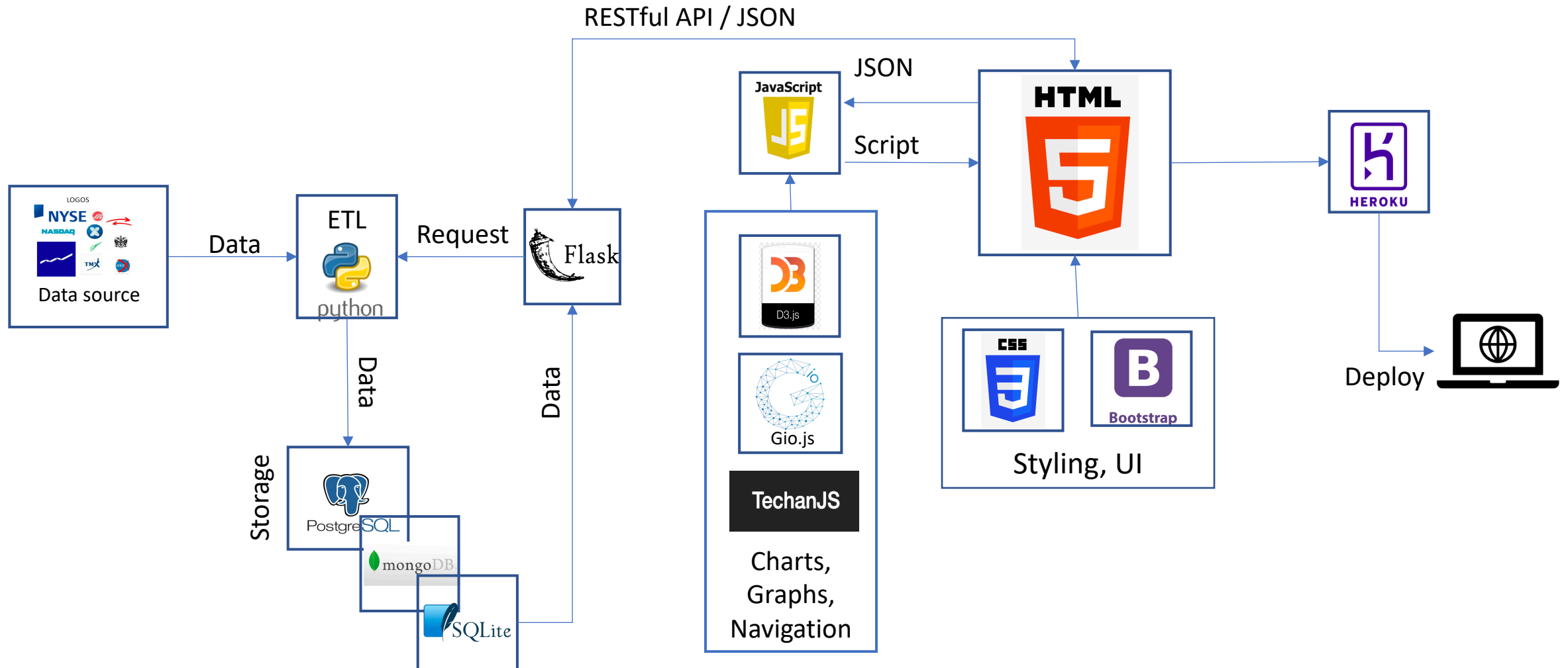# Team 10
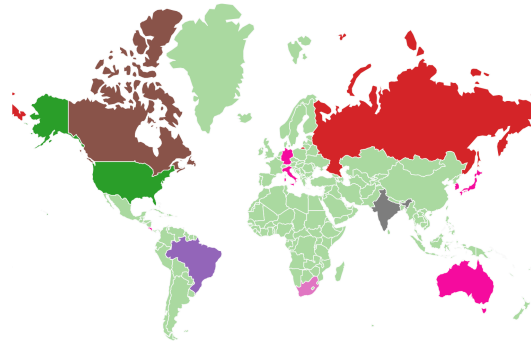
Global stock market data visualization

Project 2 Architecture

Project 2 – 2 web pages

HOME PAGE: team10/index.html

DETAIL PAGE: team10/<country>.html

1. Interactive map/globe
2. Show some stock market stat visually and/or on mouseover
3. Market showing stock exchange
4. On click go to detailed page

1. Typical interactive stock market chart
2. Min show the composite for the market

Project 2 Tasks Split

ETL Person

Flask/JSON Person

RESTful API / JSON

JSON

Home page Person

JavaScript

Script

LOGOS

NYSE
NASDAQ
TMX

Data source

Data

ETL

python

Request

Flask

HEROKU

Data

Data

Storage

PostgreSQL

mongoDB

SQLite

D3.js

Gio.js
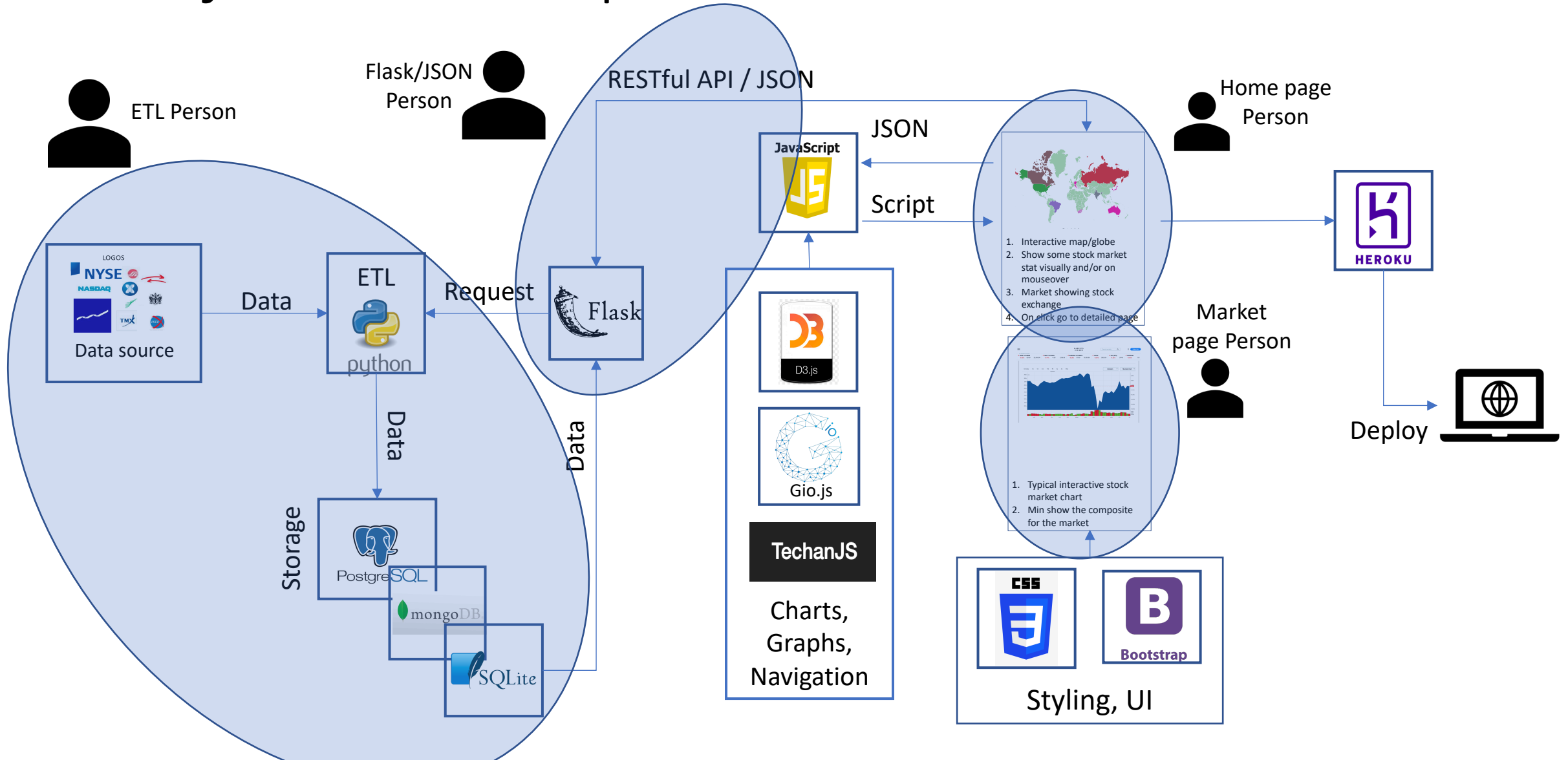
TechanJS

Charts, Graphs, Navigation

1. Interactive map/globe
2. Show some stock market stat visually and/or on mouseover
3. Market showing stock exchange
4. On click go to detailed page

Market page Person

1. Typical interactive stock market chart
2. Min show the composite for the market

CSS

Bootstrap

Styling, UI

Deploy

Project 2 Tasks

- ETL Person
  - Identify data source
  - Extract data
  - Clean data
  - Load data to db in for needed by Flask person
- **Provide some test data for Flask Person early**

- Flask/JSON Person
  - Send request to Python to refresh data
  - Read data from db
  - Publish JSON to URLs needed by web pages
- **Provide test JSON data for page people early**

- Home page Person
  - Design visualization
  - Identify library
  - Use JSON data to populate visualization.
  - Use some D3.js custom work
- **Identify data needs of library viz package early**

- Market page Person
  - Design visualization
  - Identify library
  - Use JSON data to populate visualization.
  - Use some D3.js custom work
- **Identify data needs of library viz package early**

Timeline and deliverables

Tuesday, July 21
- PRESENTATION

Saturday, July 11
- Alignment
- Agree on
  - Architecture
  - Design
  - Roles
  - Deliverables
- Identify
  - Data source
  - Viz libraries

Tuesday, July 14
- All the pieces collected
- ETL
  - Source
  - Sample data
  - Choose db
- Flask
  - Endpoints
  - Sample JSON
  - Python request
- Home & Market page
  - Choose library
  - Data requirements

Thursday, July 16
- Individual pieces working
- ETL
  - Prelim data loaded indb
- Flask
  - Prelim JSON and request functioning
- Home & Market page
  - Prelim functioning viz

Saturday, July 18
- MVP functional

Monday, July 20
- Final version

Technologies utilized and their role

	Mongodb	Flask	Python	Javascript	D3.js	HTML/CSS	New JS lib	Heroku
What will each piece of technology be used for in our stock market data project?	Store data retrieved from API/JSON	Runs an app that gets data from a database, or runs Python script when user navigates to a URL.	Retrieve and manipulate data.	Create interactive elements on webpage	Listen for webpage events. Draw graphs and charts using data.	Display and style webpage. Boostrap.	Specialized library for displaying stock market data.	Deploy live website.