



Team 55: National Firefighter Registry

In Collaboration with CDC-
NIOSH

09/29/2020

Presentation Link

<https://www.youtube.com/watch?v=QDp0gaq51Hg>

Diagrams created with draw.io

Team 55: Personnel

Team 55 Members:

- James Davis
- Haolong Yan
- Rahul Nowlakha
- Joe Kurokawa
- Traver Clifford
- Michael Rojas

CDC Mentors:

- Jill Raudabaugh
- Breanna Newton

GT Mentor:

- Elizabeth Shivers

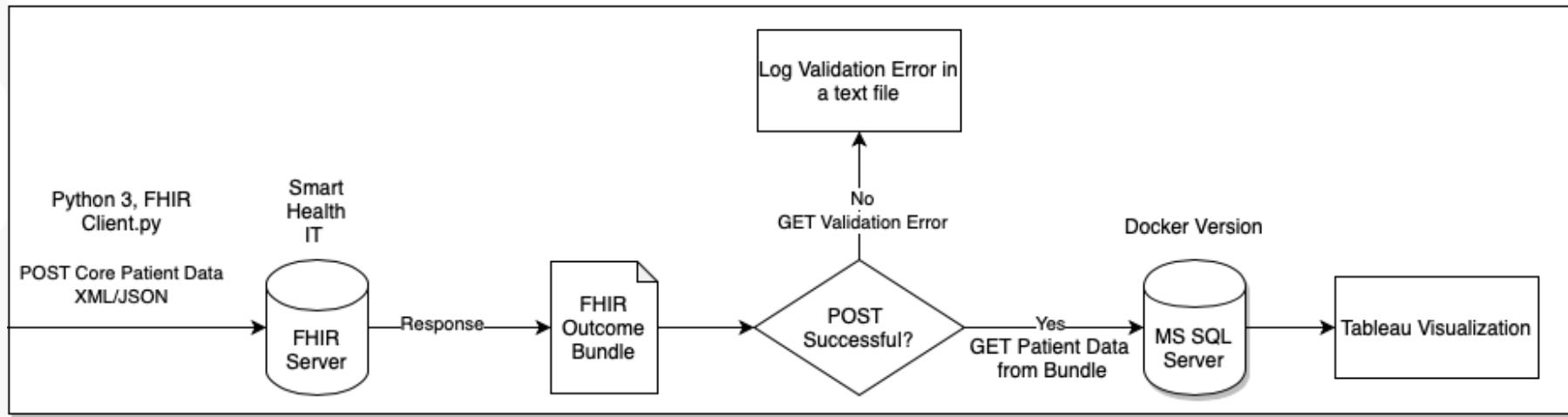
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Agenda

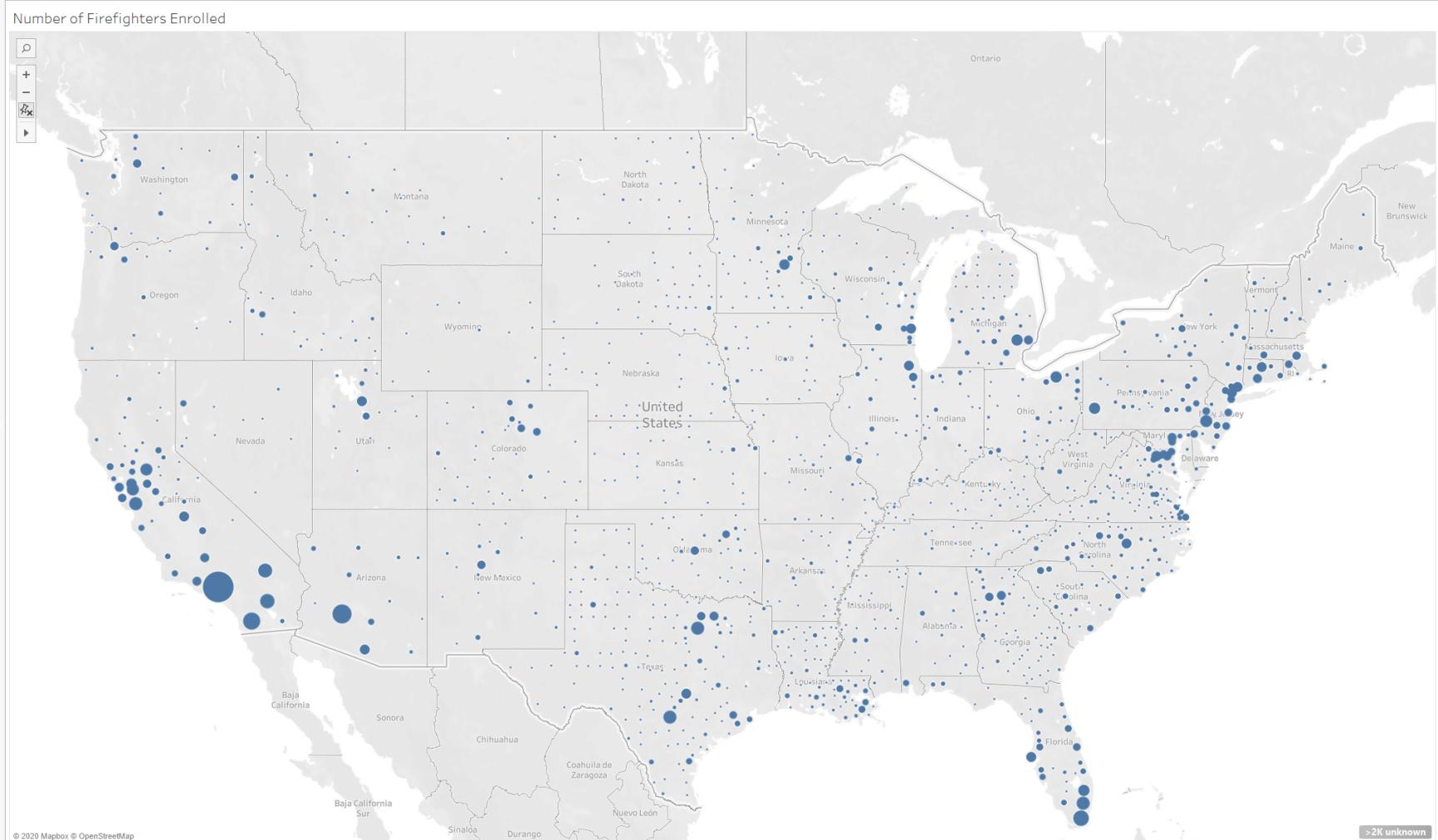
- Proposed architecture
- Mock-up of visualization
- Deployment strategy
- Update on research
- Project plan update

Proposed Architecture

- Python3 for language
- MS SQL server for DB



Mock-up of Visualization

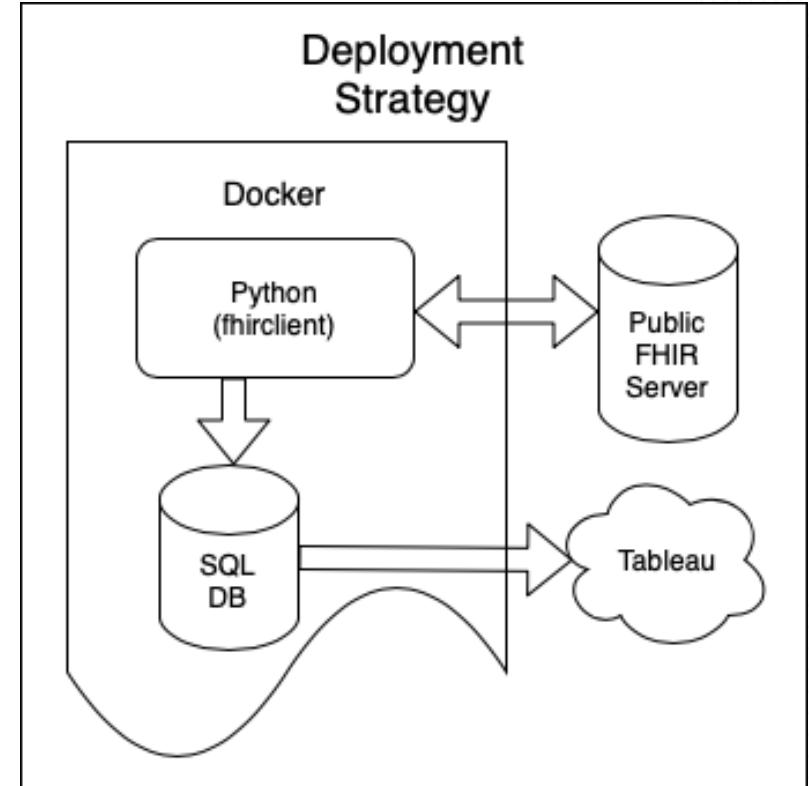


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Deployment Strategy

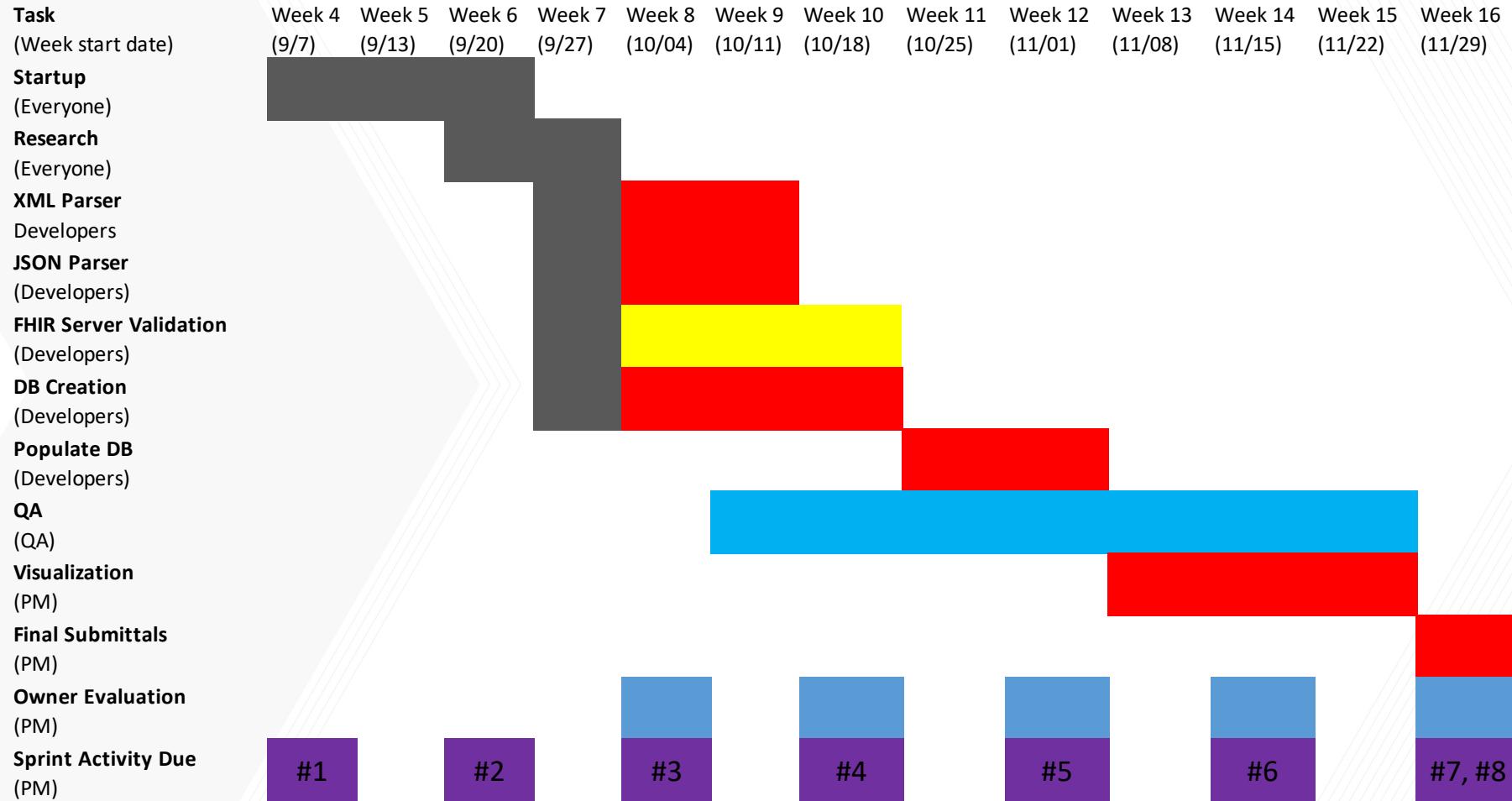
- Dockerfile for python and local SQL DB
- Public FHIR server for validation
- Tableau frontend



Research Findings

- Python libraries for FHIR
 - Fhirclient.py and FHIR.resources
- Can directly POST JSON to FHIR server
- XML likely needs conversion to JSON
- Dockerized version of SQL server
- FHIR server CRUD operations

Project Plan Update



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