

SPYNdoctors

CS6440 – Intro to Health Informatics.

Fall 2017

Team Progress Report (D3)

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# Project

MASTER PERSON INDEX (DOHMPPI) WHICH AIDS WITH DE-DUPLICATION AND MAINTAINING CONSISTENT ID FOR ITS DATA SOURCES; SUCH AS THE DEATH INFORMATION SYSTEM, EDEN

# Project Mentors

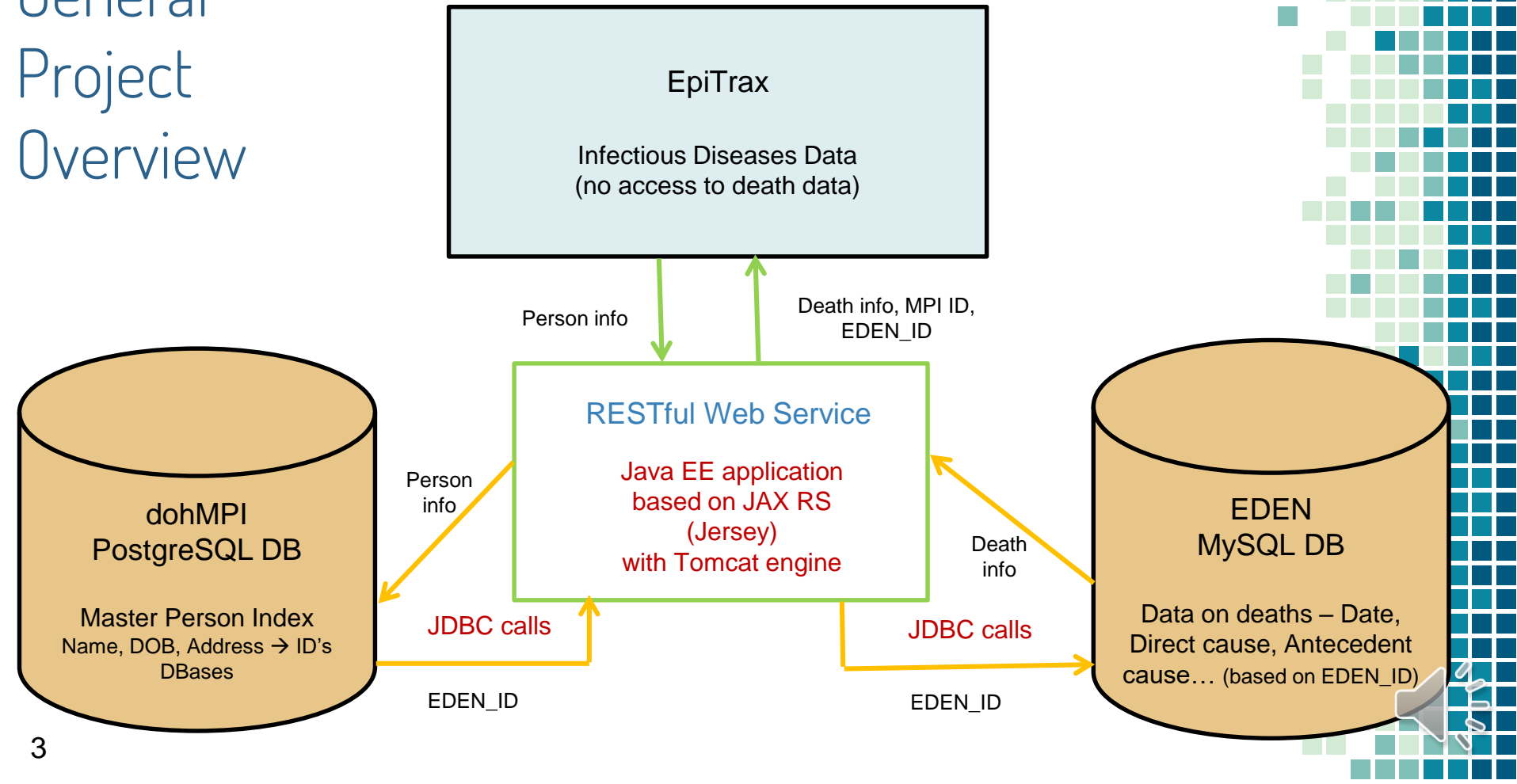
Utah Department of Health

Dr. Kailah Davis

Dr. Jeffrey Duncan



# General Project Overview



# Input and Output

Mozilla Firefox  
http://localhost:8888/DohMPI\_EDEN/

## Enter Personal Data for DOH MPI matching

First name:\*

Last name:\*

Date of birth (MM/DD/YYYY):\*

Gender:\*\*

Address. Street number:\*\*

Address. Street name:\*\*

Address. Unit/Apt number:

Address. City:

Address. Zip code:

Phone Number (10 digits; no other chars) :

\* Required field

\*\* Either gender or both Street number and Street name are required

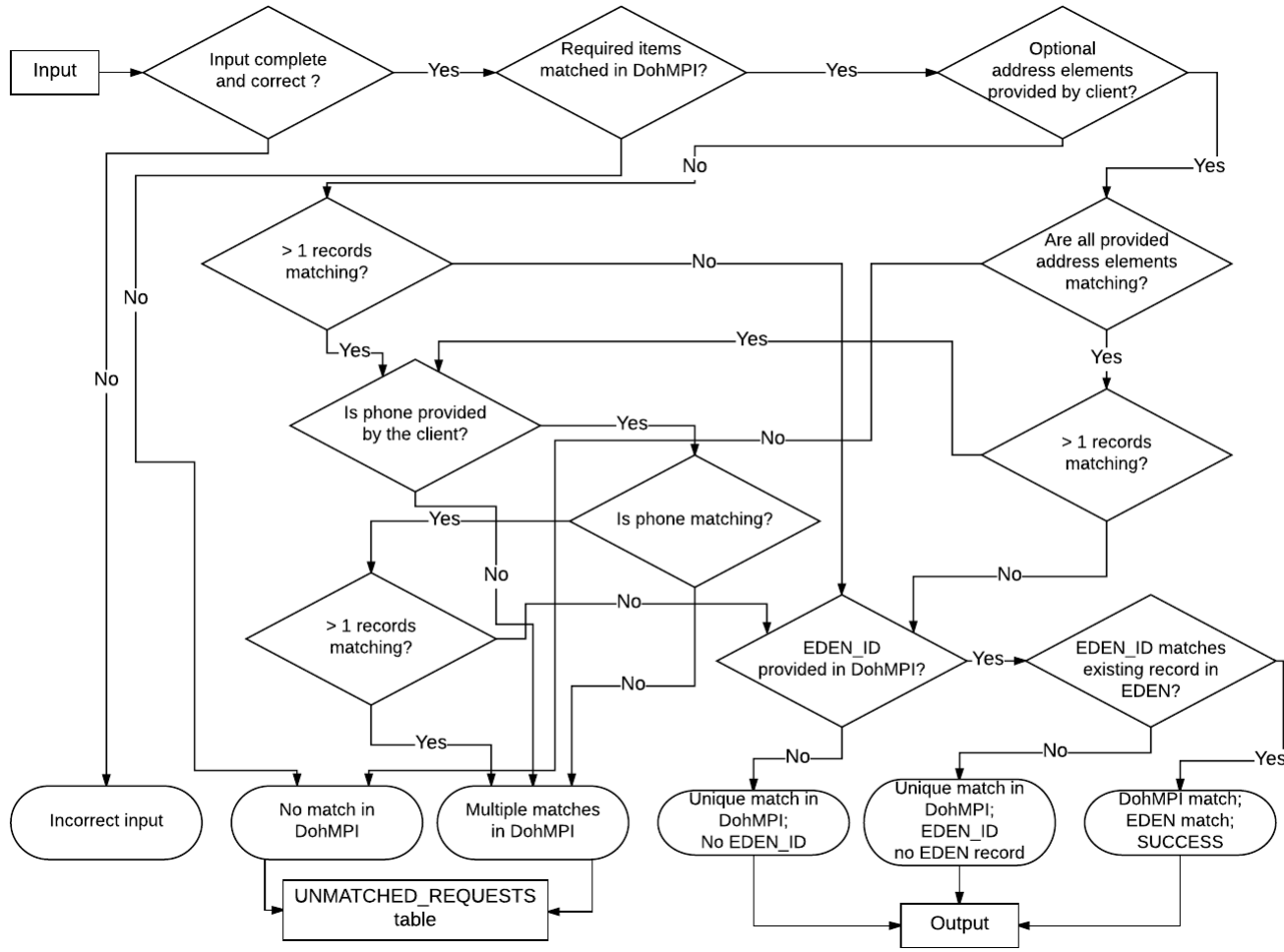
Mozilla Firefox  
localhost:8888/DohMPI\_EDEN/rest/match

This XML file does not appear to have any style information associated with it. The document tree is

```
<ServiceResult>
  <ResponseStatus>DohMPI: Match successful. EDEN: Match successful.</ResponseStatus>
  <FirstName>CARRIE</FirstName>
  <LastName>WHITE</LastName>
  <Gender>F</Gender>
  <DateOfBirth>06/22/1969</DateOfBirth>
  <MPI_ID>1162</MPI_ID>
  <Is_Deceased>true</Is_Deceased>
  <DateOfDeath>08/31/2016</DateOfDeath>
  <Address>4359SOUTHELMSTREET</Address>
  <City>SALT LAKE CITY</City>
  <Zip>84114</Zip>
  <Phone>
  <AddressLastChangedOn>2017-10-20 10:50:15</AddressLastChangedOn>
  <ImmediateCause>Multiple Stab Wounds To Torso And Neck</ImmediateCause>
  <AdditionalCause1>
  <AdditionalCause2>
  <MannerOfDeath>4</MannerOfDeath>
  <UnderlyingCause>
  <UnderlyingCode>
  <ContribCode1>
  <ContribCode2>
  <ContribCode3>
  <ContribCode4>
  <ContribCode5>
  <ContribCode6>
  <ContribCode7>
  <ContribCode8>
  <ContribCode9>
</ServiceResult>
```

Will be distributed as DohMPI\_EDEN.war java Web application for deployment in Tomcat;  
it will use additional editable matcher.properties file for configuring database connections

# Matching Decision Logic Flowchart



# RESTful API

## Operations for /match

Show/Hide | List Operations | Expand Operations | Raw

**GET** /match/first\_name/{first\_name}/last\_name/{last\_name}/gender/{gender}/date\_of\_birth/{date\_of\_birth} getResult()

[http://localhost:8888/DohMPI\\_EDEN/rest/match/first\\_name/{first\\_name}/last\\_name/{last\\_name}/gender/{gender}/date\\_of\\_birth/{date\\_of\\_birth}](http://localhost:8888/DohMPI_EDEN/rest/match/first_name/{first_name}/last_name/{last_name}/gender/{gender}/date_of_birth/{date_of_birth})

**Parameters**

template params

gender	string
date_of_birth	string
last_name	string
first_name	string

**Responses**

status:  
200 - OK  
representations  
application/xml    **ServiceResult**

**POST** /match getResult()

[http://localhost:8888/DohMPI\\_EDEN/rest/match](http://localhost:8888/DohMPI_EDEN/rest/match)

**Parameters**

representations  
application/x-www-form-urlencoded

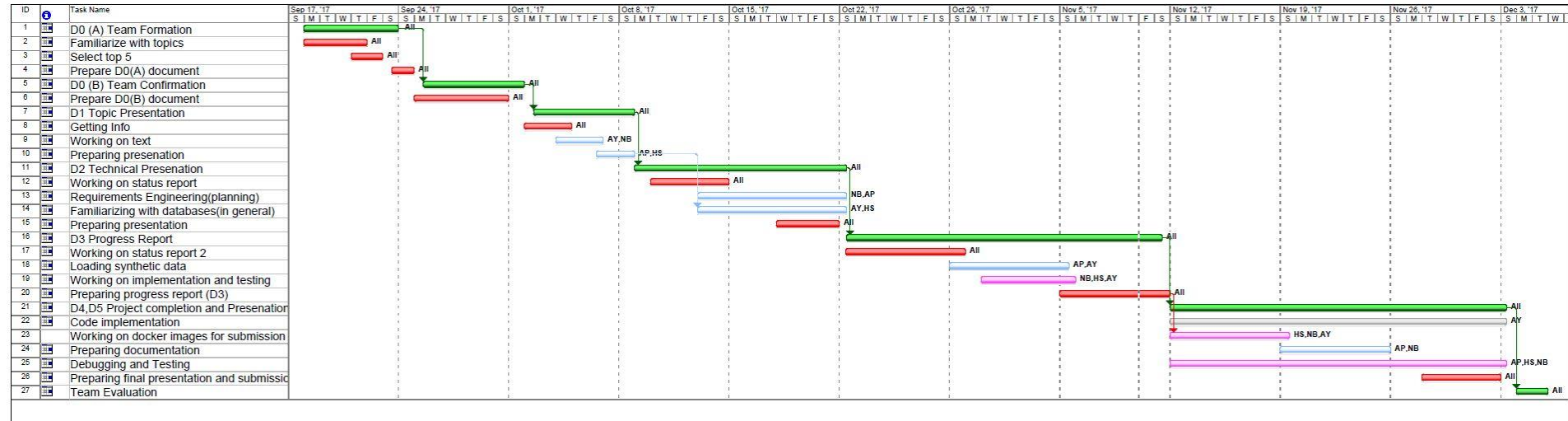
query params

first_name	string
last_name	string
gender	string
date_of_birth	string
street_number	string
street_name	string
apartment	string
city	string
zip	string
phone	string

**Responses**

status:  
200 - OK  
representations  
application/xml    **ServiceResult**

# GANTT Diagram



THANKS!

