PeopliHealth

Digital India
Power To Empower

MAA_165

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Overview

- PeopliHealth app connects the Government and people on the Healthcare segment.

- Objective:
  - This app facilitates the PHM (Population Health Management) to Govt. policy makers, Govt. administrators to monitor the Population Health. They can pro-actively control any abnormalities based on the predictive analytics capabilities.
  - This app can also be used by the people to track their health as well as provide health information back to the Government.
  - Hence, PeopliHealth covers the end-to-end healthcare solution with the help of data analytics capabilities that helps both the Govt. as well as the people, which is the current gap that prevails in our country.

PeopliHealth

Features

- Population Health Management
  - ✓ Predicting the epidemic outbreak through Predictive Analytics modeling
  - ✓ Data visualization on the current severity of the epidemic through a descriptive analytics burn chart
  - ✓ Performance indicator trend analysis of various State / District Health parameters.
- Better effective Healthcare
  - Effectiveness of healthcare is based on both the healthcare provider and consumers – the patients.
  - People uses this app for the following
    - ✓ Immunization calendar
    - Maternity & Infants
    - ✓ Communicable disease update
    - ✓ Nearby Public Health centers
    - ✓ Emergency alert

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✓ - Available in this prototype

Users

Govt. agencies –
Policy makers, Health administrators

We the people

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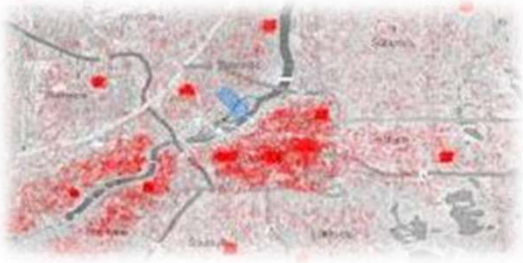
Workflow

Govt. agencies – Policy makers, Health administrators



Proactive prediction of epidemic outbreak and take appropriate measurement to control

Evaluates various health indicators as part of Population Health Management practice.

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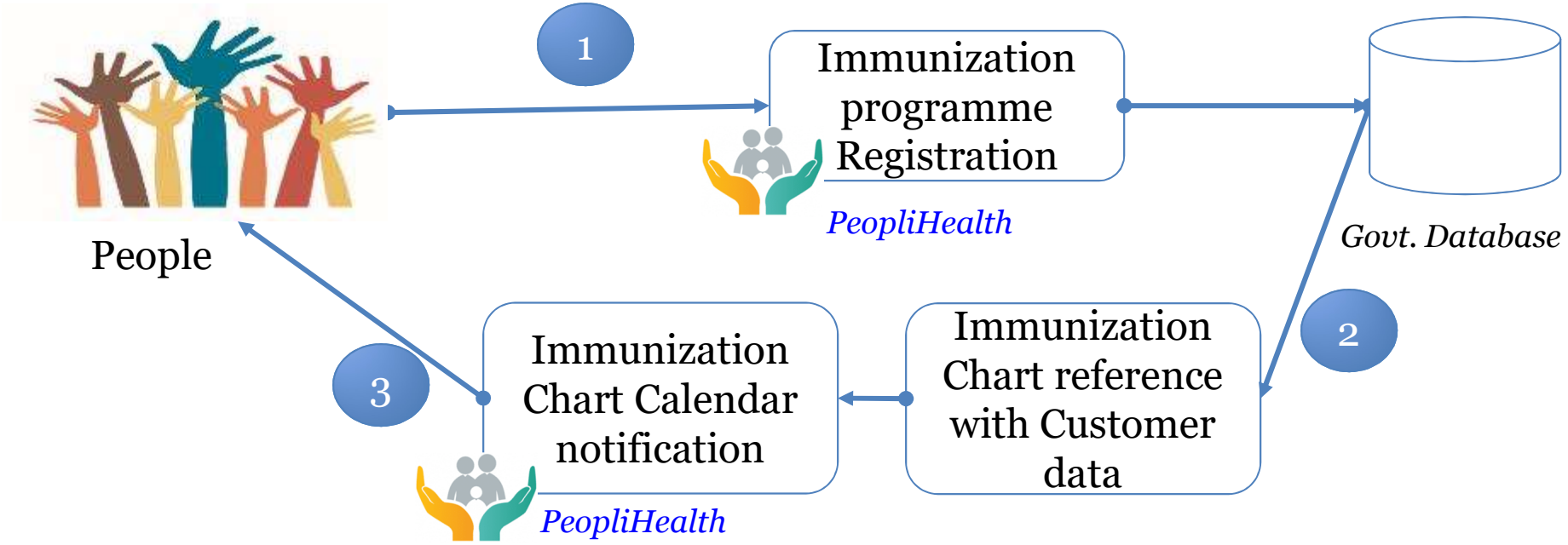
Workflow – Immunization - Infants



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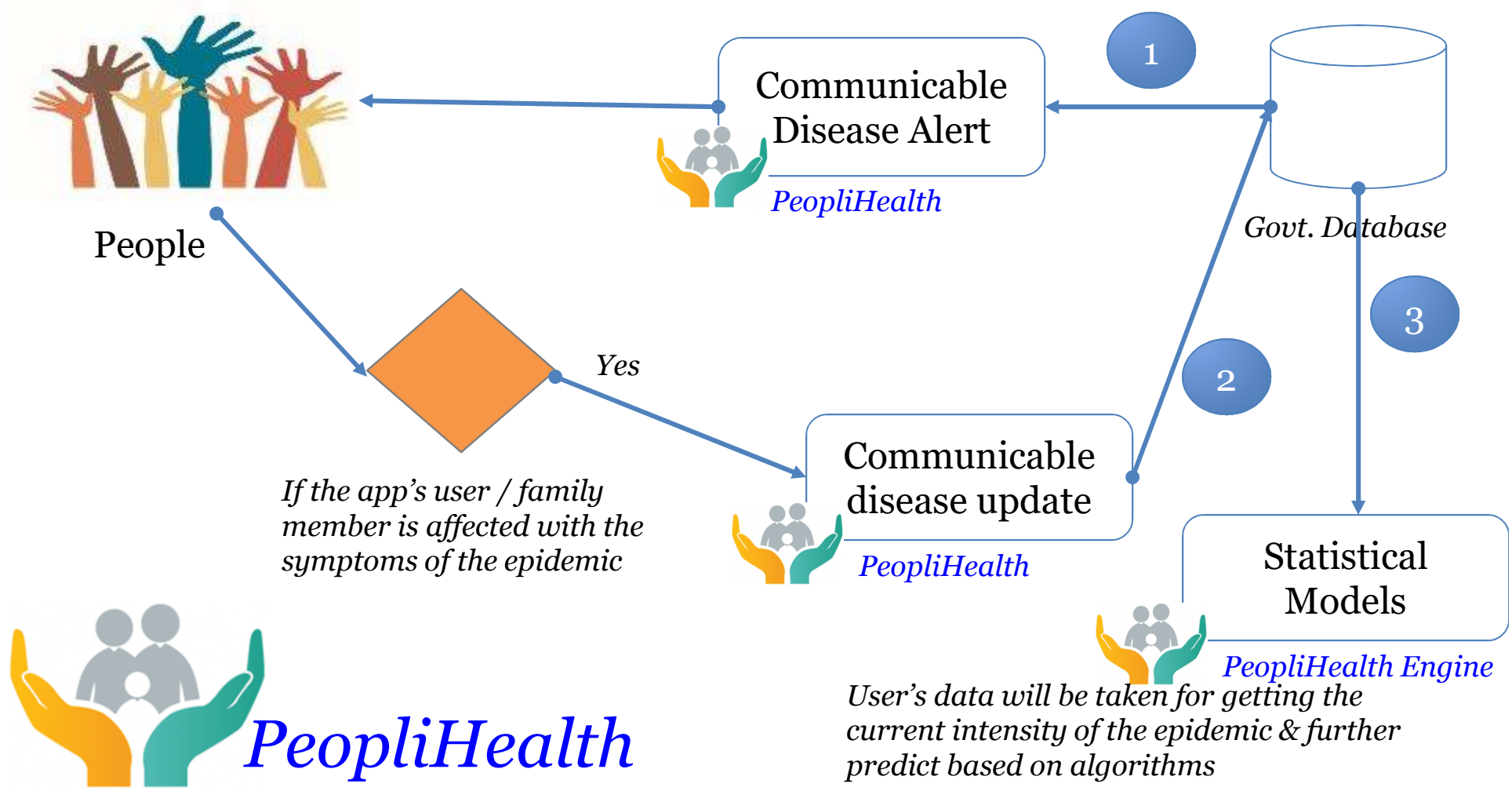
Workflow – Communicable disease update



Predictive Analytics implementation

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Data Preparation

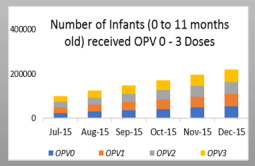
Open Gov. Data

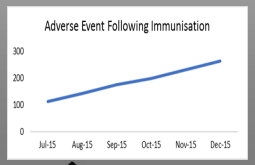
Other Data Sources

User Input Data

Data Mining

- Exploratory data analysis is performed to find patterns and trends in the data.





Predictive Modelling

- Statistical techniques like Time Series Analysis and Multivariate Regression are utilized to build the predictive models
- Based on the prediction accuracy, the best model is selected and refined
- Say, for dengue forecast, the variables used for developing the model are:
  - Historical dengue surveillance data
  - Meteorological data

Actionable Insights

- Based on the output from the predictive model and data analyses, notifications and alerts are generated and communicated with the Government & the community through PeopliHealth
- Forecasts can help in proactively implementing preventive measures and for efficient planning

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What's covered in this prototype?

- Data preparation has been done on the available data from 'OpenGovDataHack'.
- Aggregation data observed and not ideal to define predictors for building predictive models.
- Current data is analyzed using 'R'
- Hybrid Mobile app developed through ionic3 with static navigation.
- Powerpoint presentation as a prelude before showcasing the functional prototype.

Thank you

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