

#OpenGovernmentDataHack RoundTable Report

DATE: Wednesday, July 12, 2017

TIME: 09:30 AM

MEETING NAME: OGD Hackathon Round Table

LOCATION: Conference Room, 7th Floor, NIC

REPORT PREPARED BY: National Informatics Centre (NIC)

1. MEETING OBJECTIVE

In order to keep stakeholders of the OGD Platform India (data.gov.in) informed, a half day round table was organized to discuss **sector-specific problem statements for the upcoming Hackathon** with Chief Data Officers and Open Data Community on 12th July 2017 from 9.30 am to 2.00 pm at Conference Hall, 7th Floor, National Informatics Centre, CGO Complex, Lodhi Road, New Delhi.

2. AGENDA

TOPIC	PRESENTED BY	TIME
OGD Journey So far	Ms. Alka Misra, STD, NIC	10:00 – 10:25 AM
NIC and IAMAI association for Hackathon	Dr. Subho Ray, President, IAMAI	10.25 – 10.30 AM
#OpenGovDataHack Overview	Shri D.P. Misra, TD, NIC	10:30 – 11:00 AM
Presentation and Discussion of Problem Statements from sectors: Health, Education, Transport, Drinking Water & Sanitation and Crime	Shri Sunil Babbar, PSA, NIC CDO/Representatives from the Sector: Health, Education, Transport, Drinking Water & Sanitation and Crime	11:30 AM – 1:30 PM
New Features in OGD Platform	Ms. Ritu Ghai, PSA, NIC	1:30 – 2:00 PM

3. Proceedings

- A. Ms. Alka Misra, STD, NIC welcomed all the participants from government, community, industry etc. She gave presentation on the journey so far covered by Open Government Data Platform
- B. Dr. Subho Ray, President, IAMAI addressed the gathering and expressed his delight on NIC and IAMAI association for Hackathon
- C. Shri D.P. Misra, TD, NIC gave presentation on the structure and plan of #OpenGovDataHack
- D. Shri Sunil Babbar, PSA, NIC presented the problem statements of selected five sectors. He opened and moderated the presentation and discussion session of CDOs/ representatives, Community, Industry, etc.
- E. Ms. Ritu Ghai, PSA, NIC presented the new features of OGD Platform. She highlighted the Visualization Engine, Blogs, Infographics, APIs etc.

F. Problem Statements Discussion Session proceedings:

Problem statements from each of the five selected sectors were divided into two categories. One proposed by CDOs and another by OGD team. Refer complete problem statements at [Annexure-A](#). CDOs / their representatives presented the problem statements proposed by them and detailed discussions were held with the representatives from Community, Startup, and Industry etc.

Sector	PRESENTED BY	DISCUSSION DETAILS	ISSUES
Health	Dr. Vishnu Kant Srivastava, Chief Director (Statistics), Department of Health and Family Welfare Prof. Suptendra Nath Sarbadhikari, Project Director, NIHFV	Following Four problem statements were proposed and presented: <ol style="list-style-type: none"> 1. Tablet/Mobile based app for collection of HMIS data 2. Keeping track of Drug and Diagnostic Information through App 3. Health Surveys information retrieval and other data triangulation 4. Location tracker of Health facilities through HMIS data base and fetching data on infra and services <p>It was suggested that Citizen centric apps can be developed like health infra and services location tracker, health survey triangulation, health record keeper, app for HMIS data collection.</p> <p>It was also discussed that the app developed for health survey data retrieval and triangulation can work for any other data.</p> <p>Priorities for problem statements have been reassigned in reverse order.</p>	<ul style="list-style-type: none"> • No private health centers' data available • Tracking particular medicine availability is a challenge • In case of health record keeper, storing citizen confidential data on cloud without incurring any cost is challenge
Education	Shri Rajkumar, Director, D/o Higher Education, MoHRD Shri N. L. Srinivas, Senior System Analyst, NCERT	Following seven problem statements were proposed and presented by NCERT: <ol style="list-style-type: none"> 1. Mobile app (GIS based) to find out nearby school located within 10 KM(may vary) vicinity of the user location 2. GIS based examination centers allocation and search 3. Software tool for evaluating performance of teachers by student 4. Real-time school attendance of children and teachers in schools all over India 5. Non-availability of teachers in government schools 6. Academic Time-Table Management Tool under CBCS 7. Identification of Fake Universities <p>It was suggested that 13 lakh school data is available for govt. recognized schools. This data can be used for public user apps.</p>	<ul style="list-style-type: none"> • School directory was last updated in 2009 • Data might not be enough for development for identified problem statements
Transport	Ms. Usha Padhee, Joint Secretary, Ministry of Civil Aviation Shri K Guite, Adviser (TR), Ministry of Road Transport	Following nine problem statements were proposed and presented by Civil Aviation: <ol style="list-style-type: none"> 1. Airline Route Profitability Analysis and Optimization Using big data Analytics 2. Monitoring mechanism for passenger throughput time at check-in counters and SHA 3. Predicting the delay for a particular flight depending on route 	<ul style="list-style-type: none"> • AAI: Less open data availability • AAI: Private data cannot be used in Hackathon • Road Transport: three problem

	<p>and Highways</p> <p>Shri Suyash Narain, Director, Ministry of Civil Aviation</p> <p>Shri S.V. Satish, ED (IT), AAI</p>	<p>and date</p> <ol style="list-style-type: none"> 4. Commercial promotion on airport as passenger moves nearby a shop 5. Predicting the price for a particular flight for a particular date 6. Optimizing the existing Air Routes, to save on time and fuel 7. Chat-bot to automatically answer questions related to the Aviation industry 8. Design a system to securely provide access to AirTraffic movement data from various ATM sources 9. Design a system to provide Airport 2D or 3D navigation view for various facilities <p>It was proposed that Apps shall be developed for Data centralization, citizen benefit, airline benefit, flight tracking, public FAQs. GAGAN & GAMES platforms were also discussed</p> <p>Following four problem statements were proposed and presented by Road Transport:</p> <ol style="list-style-type: none"> 1. Ambulance Service on National Highway 2. Emergency care services/Hospitals 3. Mobile Applications on Road Accidents Data 4. A time series category-wise, state-wise road length <p>Road transport expected an app development for locating the accident point and then communicating the same to the emergency contact, nearby hospital and police station.</p>	<p>statements identified can be combined to one app for accident</p> <ul style="list-style-type: none"> • Accident app integration with some other daily app for mass use
<p>Drinking Water & Sanitation</p>	<p>No Representative</p>	<p>Problem statements prepared by OGD team was presented and opened for discussion and inputs. They could be taken up for hackathon.</p>	
<p>Crime</p>	<p>Shri Raja Kumar, National Crime Records Bureau (NCRB)</p>	<p>Following eight problem statements were proposed and presented by Road Transport:</p> <ol style="list-style-type: none"> 1. Apps on Missing/Kidnapped persons 2. Applications on Talash- Misssing Children 3. Applications using CCTNS 4. Evaluation and Analysis of District-wise crime 5. Dynamic Dashboard for crime Statistics using deep learning 6. Mobile applications developed for Crime in India data 7. Time series analysis 8. Crime head-wise analysis tools <p>Various apps can be developed for missing/kidnapped people, district wise crime capture and theft. These indicators may be plotted on map and infographics can be created.</p>	<ul style="list-style-type: none"> • There is time lag in data update • CCTNS data will be available by year end

4. ACTION ITEMS

ACTION	ACTION TO BE TAKEN BY	ACTION BY DATE
Round table presentations and report to be uploaded on event site (event.data.gov.in)	OGD Team, NIC	By 21 st July 2017
Submit description (maximum of 200 words) for each Problem Statement proposed by Government Departments as per Annexure-A	CDOs of selected five sectors	Preferably by 4 th August 2017
Provide available datasets related to submitted problem statements	CDOs of selected five sectors	Preferably before 15 th August 2017

5. Conclusion

- All the identified problem statements from five sectors were discussed and sector representatives from government have been requested to provide description for the problem statements for the better understanding of Hackathon participants.
- CDOs may look into the availability of data w.r.t to their problem statements and publish data on OGD platform, if available.
- Besides problem statements shared by the Ministry/Departments of selected five sectors, statements prepared by OGD team have to be included for creating a set of problem statements for that sector.
- Apart from defined problem statements, participant can also develop Infographics/App of selected five sectors using data available on OGD Platform.
- Based on available data from sectors, Apps & Info-graphics will be developed during #OpenDataHack across seven cities and through online challenge. Objective is to come up with citizen centric apps based on open data.

6. Participants

- 42 Government Officials (CDOs and representatives from 18 Ministry/Departments)
- 40 Industry (IAMAI, Startup India and other) and open data community members
- 25 OGD Team Members
- In **total 107** participants were there in round table

ANNEXURE –A

**Round Table for #OpenGovDataHack
Problem Statements from Selected Sectors**

1. HEALTH SECTOR

Sl. No	Problem Statements Proposed by Department	Dataset Required
1	Location tracker of Health facilities through HMIS data base and fetching data on infra and services	Partially Available
2	Health Surveys information retrieval and other data triangulation	Available
3	Keeping track of Drug and Diagnostic Information through App	Yes
4	Tablet/Mobile based app for collection of HMIS data	Yes

Sl. No	Problem Statements Proposed by OGD Team	Dataset Required
1	Application on Blood Bank Tracker	Available
2	Application on District level Immunization Status	Available
3	Application on Hospital Directory	Available
4	Application on Disease Outbreak	Yes
5	Application on Marriage and Fertility Status	Available
6	Application on Current Use of Family Planning Methods	Available
7	Application on Maternity and Delivery Care	Available
8	Application on Treatment of Childhood Diseases	Available
9	Application Nutritional Status	Available
10	Application on Anaemia , Blood sugar, Blood Pressure, Weight, Height	Available
11	Application on Tobacco Use and Alcohol Consumption	Available
12	Application on Knowledge of HIV/AIDS	Available
13	Application on Mother and Child Health Indicators	Available
14	Tablet/Mobile based app of analysis of HMIS data	Partially Available

2. EDUCATION SECTOR

Sl. No	Problem Statements Proposed by Department	Dataset Required
1	Mobile app (GIS based) to find out nearby school located within 10 KM(may vary) vicinity of the user location	Yes
2	GIS based examination centers allocation and search	Yes
3	Software tool for evaluating performance of teachers by student	Yes
4	Real-time school attendance of children and teachers in schools all over India	Yes
5	Non-availability of teachers in government schools	Yes
6	Academic Time-Table Management Tool under CBCS	Yes
7	Identification of Fake Universities	Yes

Sl. No	Problem Statements Proposed by OGD Team	Dataset Required
1	Standard Course Curriculum Design for all the Universities across India	Available
2	Creating college dashboards	Available
3	Mapping College Neighbourhood and Social Possibilities	Available
4	Mobile app (GIS based) to find out Universities and related information i.e. Course Offered, Infrastructure etc.	Available
5	Interlinking of School education, Higher education and Technical education at all levels throughout the country	Partially Available
6	Mobile app (GIS based) to find out Colleges and related information i.e. Course Offered, Infrastructure etc.	Available
7	Mobile app (GIS based) to find out Standalone Universities and related information i.e. Course Offered, Infrastructure etc.	Available
8	Application for Evaluation and Analysis of Enrolment, Literacy, Dropout	Available

3. TRANSPORT SECTOR

Sl. No	Problem Statements Proposed by Department	Dataset Required
1	Ambulance Service on National Highway	Available
2	Emergency care services/Hospitals	Available
3	Mobile Applications on Road Accidents Data	Partially Available
4	A time series category-wise, state-wise road length	Available
5	Airline Route Profitability Analysis and Optimization Using big data Analytics	Yes
6	Monitoring mechanism for passenger throughput time at check-in counters and SHA	Yes
7	Predicting the delay for a particular flight depending on route and date	Yes (in progress)
8	Commercial promotion on airport as passenger moves nearby a shop	Yes
9	Predicting the price for a particular flight for a particular date	Yes
10	Optimizing the existing Air Routes, to save on time and fuel	Yes
11	Chat-bot to automatically answer questions related to the Aviation industry	Yes
12	Design a system to securely provide access to AirTraffic movement data from various ATM sources	Yes
13	Design a system to provide Airport 2D or 3D navigation view for various facilities	Yes

Sl. No	Problem Statements proposed by OGD Team	Dataset Required
1	Nearest Public Transportation facilities	Yes
2	Applications on Terminal/Flight wise Arrival, Departure time	Yes (in progress)
3	Applications on Air Traffic	Partially Available
4	Application on Train Timetable	Partially Available

4. DRINKING WATER & SANITATION

Sl. No	Problem Statements proposed by OGD Team	Dataset Required
1	Monitoring, management and conservation of water quality and biodiversity of inland wetland.	Yes
2	Decentralized water harvesting solutions for villages and urban areas	Yes
3	Water usage audit of household/agricultural/industrial sectors and management plans	Partially Available
4	Digital solutions to evaluate the pollution and pressure on wetlands and water bodies and its conservation.	Partially Available
5	Application to track Physical and Financial performance under National Rural Drinking Water Programme (NRDWP)	Partially Available
6	Application to track target and achievement of Swachh Bharat Mission	Available
7	Application on Toilet Tracker	Yes
8	Water Quality Affected Habitations	Partially Available
9	Application and Analysis on Water Quality of RIVER, CREEKS & CANAL, LAKE, POND & TANK, GROUND WATER	Available

5. CRIME SECTOR

Sl. No	Problem Statements Proposed by Department	Dataset Required
1	Apps on Missing/Kidnapped persons	Partially Available
2	Applications on Talash- Missing Children	Yes
3	Applications using CCTNS	Yes
4	Evaluation and Analysis of District-wise crime	Available
5	Dynamic Dashboard for crime Statistics using deep learning	Available
6	Mobile applications developed for Crime in India data	Available
7	Time series analysis	Available
8	Crime head-wise analysis tools	Available

Sl. No	Problem Statements Proposed by OGD Team	Dataset Required
1	Application on Crime Against Women	Available
2	Application on Crime Against Children	Available
3	Application on crimes under various sections of Indian Penal Code (IPC) crimes and SLL Crimes	Available
4	Application on Jails and prison inmates	Available
5	Application on Police Strength	Available
6	Application on Accidental Deaths & Suicide	Available
7	Application on Property Stolen & Recovered	Available