Building Smart Communities…

Smart(er) People

May 16th – 18th
Tourism Open Data

Tourism Open Data provided for the Hackathon can be found at:

http://opencaribbean.org/

Available Data Includes:

• Local Tourism Assets: Hotels, Sites and Attractions
• Monthly Tourism arrival statistics by Origin
• Key Tourism Sector indicators
• Tourism Service providers (transportation, rental cars, water sports)
Open Data is Not Enough (*No Sufficiente*)!

- Open Data is a great enabler for Hackathons and to enable developers to conceptualize ideas and demonstrate potential innovative solutions, but…
- Limited Value Incentives
  - Data providers (Government Agencies) have no policy framework or motivation to continue to supply data
  - Developers have no rational to continue to develop their ideas in the absence of assurances that data will be available, updated
- What is Needed? A Platform
  - Provide a *Catalyst* for the scaling of open data in the Caribbean by identifying and enabling appropriate data standards, APIs, guidelines, and sector-focused problem-centred micro-services, that enable social and economic innovation;
DevCA2019 will feature a special focus on the impact of data on the Caribbean people and Communities and will explore the concept of the "Smart Community". Developers at DevCA Hackathon sites across the region will be able to “test-drive” a prototype technology platform (S.C.O.P.E.) that will feature a portfolio of Open Data, Microservices and APIs, and sample mobile/web application code, that can accelerate the development of innovative apps and services for a scalable community tourism ecosystem.
Smart Community Open Platform Ecosystem

Codename: Arawak-MVP

Business
- Business Entities
- ScoreMgm Reviews
- Claim
- Calendar Booking
- PlayTour

Security
- Register/Auth Users & Apps
- Logger & Audit
- Communications
- MailSender

Infrastructure
- Dashboard Stats
- Central Config
- Discovery
- API Gateway

CTP-MVP Core Components
Arawak platform

Arawak project offers a minimum viable product (MVP) that allows to enhance a platform for the management of the tourism sector in the Caribbean region, offering minimal management features and providing tools for developers and innovators to use the open data to implement new support systems for this important sector.

• Supported in open source technologies.
• Apply the principle of open data.
• Empowering communities.
The business components are the base microservices of the platform.

• Entities and business resources.
• Location and georeferencing.
• Calendar and reservations.
• Claims.
• Evaluations and states (or Reviews).
• Media management.
Entities and business resources

It’s a highly flexible low level microservice that supports the creation of any type of entity, the entity concept being understood as a class that describes a group of resources, e.g.,: the Hotel entity allows describe hotels on the platform, in case of you want to obtain all the hotels this can be done through the name that was given to the entity.
Location and georeferencing

It’s in charge of storing all the information of the location data of a resource. It includes physical location data such as, city, country, street, districts, etc. data of geographic type (coordinates) and data for communications such as email, fax and telephone of the resource to which the location is associated.
Calendar and reservations

In the scope of the platform is available the microservice calendar and reservations. It allows to associate with any system resource (read as any element registered in the microservice described in entities, but not necessarily restricted to it), basically the calendar is associated using the “resourceId” field.
Bookable: The time that have a resource available and can be reserved.

Booking: The time in which a resource is reserved which was previously declared a bookable space. The booking process requires the start and end dates of the booking and the identifier of the bookable that will be used. The start and end date of the reservation must be framed inside a bookable space.
The claims microservice has the objective of providing functionalities that allow any user of the system to claim ownership of a resource previously registered in the platform.
Evaluations and states
or (Reviews)

Allows users to score between 0 and 5 points on a resource and / or express a reaction on resources, for example: Like, Love, etc. A user can only issue an evaluation or reaction on the same resource, but it can be updated at any time the user wishes to do so.
Media management

The media management microservice (media-manager in the graphic) aims to manage all the static content offered by the platform such as images, audio files, email templates and any file that is required, allows uploading the files and exposing it as static content to be consumed by the final client applications.
Mail Server

Facilitates sending e-mails from the platform and that has a simple but flexible API so developers can send emails quickly.

• Send a simple email, based on a body of mail only text and free to specify.
• Send an email using an HTML email template.
Let’s Start Coding !
Arawak – Developer Support Features

• Access to Open Data Sources (APIs, or downloads)
• Access to Web Services
• Re-usable Components (Web / mobile)
• Wiki Documentation
• Functional Demos & Sample Code
  Code templates for starter mobile & web applications
• Q&A Forum
• Potential Ideas

• opencaribbean.org
• api.opencaribbean.org
• wiki.opencaribbean.org
• arawak.opencaribbean.org
• twitt-dev.opencaribbean.org
• devca.ideascale.com
Arawak – Developer Support Features

• Access to Open Data Sources (APIs, or downloads).
• Access to Web Services.
• Wiki Documentation.
• Functional Demos & Sample Code Code templates for starter mobile & web applications.
• Q&A Forum
Testing APIs

- Download the **Insomnia Workspace File** and upload into your program.
- If you are a php developers you can use our SDK from [here](#).
- For python developers download from here.
- The java developers download the SDK from [here](#).
- For React developers download the SDK from [here](#).
- For React-Native developers download the SDK from [here](#).
- Download the Angular Sample Application from [here](#).
Follow Us

If you have any question you can mention here the hashtags:

#booking  #claim  #resource  
#reviews  #media  #mail  
#javasdk  #jssdk  #pythonsdk  
#reactjssdk  #phpsdk  #reactnativesdk
Pilot Community: Treasure Beach Jamaica
Pilot Community: Toledo District Belize
Potential Ideas / Solutions

1. Local Administrators
   - Publish Digital version of Treasure Beach Map (mobile App)
   - Community Notice Board ~ What’s happening in Treasure Beach?

2. Community
   - Community Notice Board ~ What’s happening in Treasure Beach?
   - Manage My Data
   - Neighborhood Watch?

3. Visitors
   - Plan-U-Stay
   - Call a Taxi? (Transportation)
   - Tourist attraction mobile locator and referral App
   - Find a TourGuide

https://devca.ideascale.com/
Judging Criteria and Prizes

Judges will assess submissions and assess presentations of the teams on:

- Completeness of Project (0-15)
- Open Data Usage and Usefulness (0-15)
- SCOPE-Arawak Platform Usage and Usefulness (0-15)
- Potential Impact (0-15)
- UX/UI (0-10)
- Commercial Potential (0-10)
- Presentation (0-20)

Judges will select the top three applications in each country (gold, silver and bronze); Cash Prize awards + Select opportunity / support to develop their Apps to Market
Happy Coding !