

HCL PUNE INNOVATION LAB

Shortening the time from business idea to business value

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CONTENT

EDITOR'S DESK

Greetings & welcome to the first edition of newsletter from HCL's innovation hangout.

This is an initiative taken by HCL Pune Innovation Lab Team to publish a quarterly newsletter in order to connect teams across different geographies such as Pune, Bangalore, Madurai, New York, London and others.

HCL's Co-Innovation Lab has been helping clients accelerate business ideas into business value since its set up at its Pune facility. The Lab provides a unique standalone entrepreneurial environment where business stakeholders and end-users can directly engage with the research, design, and development teams to explore innovative solutions to business problems through research, ideation, and rapid prototyping. This allows our clients to tap into the full capabilities of HCL, as well as industry and academic leaders, to effectively apply technology innovation to business needs.

In reading the newsletter you will find a wide variety of topics that will be both informative and engaging. However, the focus is on the current Delivery Projects and Innovation Projects we are working on.

Enjoy Reading!

VALUE CREATION

A. INNOVATION LAB PROJECTS

1. Team Disruptive:

This team, working on Blockchain, have gained immense knowledge on Bitcoin, Ethereum and Stellar. The team has also actively worked on **Proof of Work** and **Proof of Stakes** as a part of **Consensus Mechanism**. Currently, it's working on an IPO (Initial Public Offering) use case on Ethereum. The areas covered under Blockchain are Bitcoin, Ethereum, Hyperledger, Stellar and Ripple.

Delivery model: Scrum Methodology

Tools: Bitcore, Ethereum wallet, Mist, Docker and GUI miner

Technologies: Solidity, Java and GoLang

2. The GenNesxt Web Team:

A multi-disciplinary and cross-functional team, working on creation of **Web** and **Mobile App** development. The team is engaged in building a robust website to showcase extant activities in the Innovation lab. It leverages the latest UI technologies to implement web based solutions for the Co-Innovation-Lab. The project on which this team is working showcases the various aspects of Innovation lab such as ongoing projects, success stories, achievements along with an option to contact us at the CIL. It involves offering our clients latest technologies that are researched at in the CIL.

Delivery model: Product design sprint and Scrum methodology

Tools: PM Smart, Visual studio code, Eclipse, git stash, Oracle SQL developer and Maven

Technologies:

- UI: React JS, ECMA6, JavaScript, jQuery, html5, css3, SASS or Less, Bootstrap, Gulp for task automation and minification, node.js (not extensively), bower (not extensively)
- Java/J2EE/Web services: Core Java, Micro Services architecture, Netflix.
- Database: My SQL

B. DELIVERY PROJECTS

1. Asset Wealth Management Digital Program Team:

A high performing team that is shaping the transformation and implementation of career defining changes with interesting technology. As of today, there are multiple projects that are in progress such as db-WISE, TREASURY and PLATFORM JAVA (L3) where the team is working on 2017 Digital Transformation via Digital Products (mobile, web, desktop) in areas of RoboAdvisory.

db-WISE is a robot investment application which is currently available for clients in Germany and Luxemburg. It will empower investors by offering them an accessible and personalised solution so that they can start investing and improving their financial health.

Treasury Liquidity dashboard will calculate the actual balance of the liquidity account by income, cost, product, business unit and region for Treasury to view balance and constituent part of liquidity account and summarise in dashboard.

Platform java (L3) term's responsibilities are to create, manage and maintain the shared common services that are designed to be reused across the teams using the microservices framework. There is need for a unified service which can send notifications through different mediums like e-mail, sms and broadcast alerts to both internal and external recipients. This service will centralise the development and delivery, thus allowing other applications to concentrate on their USP and not re-developing identical systems.

Delivery model: Agile methodology – Scrum and Continuous Integration and deployment

Tools: Gradle, Jenkins, Eclipse, IntelliJ, GIT, Stash, Cygwin and Postman

Technologies: Java, J2EE, Spring, Web services, Microservices, Hadoop, Cloudera, GENI, ReactJS, Groovy, DevOps, SpringBoot, Netflix OSS, JSON and Restful Webservices.

2. DBPalace App Team

Known as the team URJA, it is one out of the 9 global multi-vendor feature teams which is working on the Enterprise P & L application. The objective for this team is to build functionality, development of UI, verification and validation. A part of the team aims to enhance the control, efficiency and effectiveness of the P & L (Profit & Loss) production process through standardization and automation of the continued manual and resource intensive P & L production business process. It involves end-to-end financial reporting, in terms of accuracy, transparency and timeliness, for DB shareholders, regulators and management.

Delivery Model: Scaled Agile Framework (**SAFe**) methodology and Continuous Integration and deployment

Tools: Maven, Jenkins for CI, Eclipse, git stash, Source tree, Control-M, Support App, Putty, SM3, Oracle SQL developer and HP ALM

Technologies:

- UI: Angular JS, JavaScript, jQuery, html5, css3, SaaS, Gulp, protractor, Jasmine, Karma, node.js and Bower
- Java/J2EE/Webservices: Core Java, RESTful web services, Multi-Threading, JUNIT execution and Hazelcast

TECH MANIA

India has started embracing Blockchain, slowly while a full-fledged adoption isn't near, small steps are being taken.

- **Andhra Pradesh government adopts Blockchain to fight cybercrime**

The Andhra Pradesh government becomes the first government in Asia to use Blockchain to prevent cybercrime. This is to ensure that India can go CASHLESS sooner. It is also working with startups to launch Blockchain Institutes.

Read More: [URL](#)

- **ICICI Bank first in India to use Blockchain.**

ICICI bank executes India's first banking transaction on Blockchain with Emirates NBD. ICICI undertakes remittances and international transactions.

Read More: [URL](#)

- **RBI acknowledges Blockchain and Bitcoin.**

The RBI has asked banks and companies in India to spend time researching on more avenues of a cashless economy, crypto currencies and Blockchain.

Read More: [URL](#)

- **Mahindra and Satoshi Ventures have started an incubator.**

Mahindra wants to invest in R&D see how Blockchain benefits various parts of the company.

Read More: [URL](#)

Blockchain is receiving traction from the **rest of the world** as well.

- **South Korea plans to include Blockchain.**

South Korea recently released its Fintech Development Roadmap. This included the creation of Bank Joint Blockchain Consortium and the institutionalization of digital currencies such as BITCOIN.

Read More: [URL](#)

- **Department of Homeland Security is looking at Blockchain**

The Department of Homeland Security believes that Blockchain ledgers can better secure cameras and sensors monitoring the movement of travellers and trade goods.

Read More: [URL](#)

- **Walmart to adopt BLOCKCHAIN.**

Retail giant Walmart is set to adopt Blockchain to enhance their supply chain management.

Read More: [URL](#)

DID YOU KNOW?

Acceptance Test Driven Development (ATDD) is a practice in which the whole team collaboratively discusses acceptance criteria, with examples, and then distils them into a set of concrete acceptance tests before development begins.



Real Time Analytics:

The ability to extract information from operational data in real time is critical for a modern, agile enterprise. The faster you can harness insights from data, the greater your advantage in driving revenue, reducing costs, and increasing efficiency.

As per recent Deloitte survey of Banking customers the majority of votes were towards innovation, new products & services, digital transformation and regulations. All of these are addressed by Big Data capabilities.

- LinkedIn open-sources is a real time analytics software.
- StreamAnalytix is a streaming data platform for processing real-time data from wide variety of sources, having Ability to process over a million events per second

ENGAGING EVENTS

1. ANGULAR JS TRAINING (PUNE, 17 & 18 December 2016)

The training was initiated with an objective to ensure the team has up to date knowledge on Advanced Angular JS.



FUN @ WORK

TEAM LUNCH



BIRTHDAY CELEBRATION

