**Problem statement for final summative Hackathon**

Currently, 49 learners from NatWest group are expected to complete their learning on base full stack skills. As a summative evaluation, learners in small groups are required to take up case study and complete. Intent of the case study is to provide a time bound activity for learners in small groups to implement and demonstrate all the knowledge and skills they have gained during the full stack modules.

Each small team to include 3 learners. Each group will get a problem statement that briefly states the problem or very high-level outcomes.

Each group must work closely as an Agile team - to understand the broad requirements, decompose the problem statement, select the use cases to be done, design the solution using microservices based architecture, design and build SPA, integrate with back-end APIs, build test cases, persist data as needed and containerize the application for deployment.

Key Dates:

* Project allocation by 18-Sep-2020
* Teams to complete design, use case identification & work break down between members – 26-Sep-2020
* Code & complete – 28 & 29Sep 2020
* Show & Tell – 30-Sep-2020

**Themes - Problem / board**

1. YourAide: A Global Commercial Bank is under continuous pressure to reduce the operating cost of its call centres. Most consumers today are on “always on” mode and expect instant / quick responses online. Moreover, young consumers do not want to call and wait for responses. The customer calls are increasing as business is expanding thereby increasing the cost of manpower.

How can you help the organization in reducing the customer calls? Is there anyway customers can get answers online from any device?

1. PortfolioWatcher – Wealth customers, Stock Analysts and Financial Investors of a Renowned International Investment Bank are need to watch and monitor their respective investments always on the go and should be able to reach their customers irrespective of their location or time.

With users having multiple devices like laptops, mobiles, pads or different computers, getting to seamlessly track the stock price for example is not very early and not synced in realtime.

How can you to help consumers to track their respective portfolio from any device anytime with up-to-minute data? And enable drill down stock to show more information with a friendly search / filter mechanism?

1. SocialBank – Social Media connects play a very big role in digital marketing and reach to customers in promotion and direct to customer engagements today. Traditional banking platforms typically do not have a mechanism to connect to their consumers digitally on a personal level due to protocols and other rules and guidelines, so the need is to have a seamless integrated platform wherein it does not interfere with the Banks protocol, and customers are also connected.

Can you help think how customers of the bank can interact, form circles, share updates and be able to quickly get the product information?

1. YourCard – This commercial bank’s international travel card is very popular with not just its own customers, but also many other bank customers. Business team is keen to provide various card usage analysis as dashboard to consumers that shows consumer spend and allows users to search easily.   
   Could your team help think and create personalized dashboard that consumer can access from any of his / her devices/computers?
2. GoPayWallet- Design a payment wallet platform which allows users to apply for Spot Cash in Forex of their choice of location for purchase / payments for certain local services such as Medicines, Cinema, Malls, and Food & Beverages and/or for self and spouse. You can include other offers bundled services easily available and enable rewards for every payment.

Similar to an ecommerce platform, combined but specialized for in Spot Forex needs of Global Travellers integrated with their Choice of Bank. By building digital platform, you would enable local / common services and financial transactions for individual needs and go cashless or even allow cash withdrawals.

1. InstaApproval - Design an Approval System - wherein any Customer can get an approval for Interest Free Car Loans or Car Loans at 0% for first year basis their credit worthiness with minimal documentation and registrations.

Customers should be able to get Credit approved within minimal interactions with basic information received form them and approval confirmations provided to them.