

A photograph of four children sitting on a wooden bench outdoors. From left to right: a boy in a blue and white striped shirt with a backpack, a girl in a blue plaid shirt with a pink backpack, a girl in a blue and white striped shirt with a purple backpack, and a boy in a light blue striped shirt with a yellow backpack. They are all looking at their smartphones. The image has a semi-transparent dark overlay on the left side where the text is located.

NSE Project Parivartan Technology Update

14 Aug – 20 Aug 2020

NSE Parivartan Technology Summary (14 Aug – 20 Aug)

Overall Status



Key Milestones

June Last Week

Architecture Document Completion

M1

Aug 1st Week

Sprint 2 completion

M2

Aug 3rd Week

Sprint 3 completion

M3

Aug 4th Week

Design Sprint Operationalization

M4

Progress

Design workstream

Activity	Web screens	Mobile screen
Current Sprint(3) screens designed	49	0
Updating screens for current screens (#of iterations)	~5	0
Screens under design for future sprints	71	0
Updating screens for previous sprints (2) (#of iterations)	0	0

Architecture workstream

- Architecture document v2.2 shared and walkthrough done with NSE. Review comments received and being worked on
- Sessions conducted on Apigee routing to DR sites and microgateway strategy for leased line traffic
- Meeting conducted with VMWare on inputs on candidates for containerization vs VM deployment from app and devops stack
- Strategy on DB design depicted to garage team on using user defined data types in Oracle to reduce table joins
- Presented following topics for review to NSE – Microservice rationalization for Member Services journey, Microservice Branching and Project structure
- Made progress with the build of Config server

CI CD Implementation

- Multi project setup completed in Sonarqube for 5 Garages, Word excel report generated and shared with Development teams, quality gates setup in progress

- Hygieia integration with Jenkins completed, dashboard created
- Email notification setup from Jenkins completed
- JAVA 11 added along with Java8 in Jenkins, testing completed
- Config repo web hook creation issue resolved
- Jmeter performance plugin integration in Jenkins in progress
- DevOps Cook book 3rd revision updation in progress
- Website toolstack.nseindia.com is activated in staging mode testing completed and results shared with Akamai team w.r.t WAF Policy
- Confluence- New Sprint wise board created in Confluence. Modified Bug Board. Created 2 confluence board to display functional and non-functional data
- Created new Workflow for Story in Jira and implemented in all the boards. Added new sub-journey custom field for Epic issue type. Created new screen for issue type Task and added custom field Epic Link
- Discussion with VMware on TAS logging, possible solution log aggregator in Tanzu instead of Filebeat being explored

Infrastructure Workstream

- Vsphere installation completed
- IP changes done for Nginx, Oracle DB in Dev1
- Architectural document Infra section walkthrough completed

Agile

- DoR state to bring it the Story board
- Story grooming workshop for garage teams for better understanding of stories and raise dependencies upfront
- Code review checklist prepared and code quality using Sonarcube

Garages Updates

- Clearing and Settlement – Sprint 3 Dev is in Progress and QA is in Progress , Sprint Grooming is Done for SP4
- Collateral Management – Sprint 3 development work in progress.
 - Release and Transfer securities through GUI & file upload – API & GUI
 - Payment Processing common Service
 - Client level collateral view and download for TM
 - Collateral Dashboard Wireframe
 - Sprint 4 grooming
- Listing – Development and testing in progress for sprint 3 stories, 1 Story is signed off from QA, 3 are in Development, 5 are in QA
- Member Services –. ALL user stories are in development. Test case preparation in progress
- Member Compliance – Sprint 3 planning and development. Picked up 3 stories. Did Database design discussion

Plan for Next Week

Architecture

- Incorporate architecture review comments
- Finalize products that will be containerized
- Apigee DR routing strategy
- Present to NSE for review of topic – Microservice rationalization for C&S journey
- Bring to completion common framework component – Config Server, Exception Handling, Logging, Audit trail

CI/CD implementation

- Creation of BitBucket folder structure for 5 garages once the branching strategy is approved
- Dev2 project plan for CI CD tools
- Kohinoor mirror discussion with VMware and Infra team
- Artifactory to include common framework components dependency
- Jira, BitBucket, Jenkins integration
- DevOps cook book 3rd revision
- Discussion with Apigee team for Apigee Devops integration
- Discussion with DB team for DB scripts implementation in pipeline

Infrastructure

- Nsxt Installation
- AWS SIT connectivity (Transit gateway) implementation

Agile

- Focus on test automation process and execute test cases
- Focus on retro items and conduct workshops to improve the process

Garages

- C&S -Sprint Demo is planned for SP3, Sprint 4 planning is planned for next week
- Collateral Management – Sprint 3 Demo, Retrospective and Planning, Developing Collateral Dashboard UI and Backend, Collateral Details DB Design
- Listing - Complete the sprint 3 stories and review with stake holder. Sprint retrospective and planning for sprint 4
- Member Services – Completion of all Sprint 3 user stories as planned including test execution. Sprint 3 demo and retrospective
- Member Compliance - Sprint 4 grooming and completion of development for Sprint 3 stories

Selected Programme Risks

Shared by	Risks/Issues/Dependency	Impact
Nilima	<p>Dependency on connectivity and firewall access between VMC on AWS and native AWS for below tasks</p> <ol style="list-style-type: none"> 1. To push the Jenkins code to Nginx server on native AWS 2. To push the artifacts to TAS from Jfrog using Ansible 3. To configure AppDynamics Java and DB agent on TAS 4. To Configure Jira, Confluence, BitBucket and Sonarqube with Oracle DB 5. Integration of ELK with Filebeat 6. Dependency on NSE team to know existing Backup policy for NSE applications. To have VM Backup policy in place for Devops tools on vmc on aws 	H
Nilima	Issues: No reply email not reaching outside NSE from Jenkins pipeline, server team help needed	H
Nilima	OEM setup in Dev environment has dependency on decision from NSE whether OEM to be setup on Native AWS or vmc on aws	M
Santosh	Collateral Management - Need to define detailed design for search functionality which will be used across garages	M
Savitha	Listing - Dependency on DMS for user stories. Rework on the stories.	M
Savitha	In listing Garage, 1 developer is Covid positive and 1 developer non productive	H
Priyanka	Member Compliance - UI Url change is causing issues, testing is in halt as of now. Working with infra and UI team for the same.	M
Arzoo	C&S For US# 121 Dependency on Business for Segments	M

Support Required

- NSE support required for Windows VM configuration on vmc, so as to integrate tools like Jenkins, Ansible etc.
- NSE firewall team support required for Firewall access between Windows VM/Desktop and vmc for tools UI testing
- NSE and AppDynamics team support required to resolve issues