# TECHNICAL REQUIREMENTS

Attachment below shows the guidelines for development of the Configuration APIs. The same has been discussed and understood by our team on May 17.



There are 58 APIs to be developed in Target 1 which will run for 2 sprints – total of 6 weeks. There are 78 APIs to be developed in Target 2 which will run for 2 sprints – total of 6 weeks.

Total weeks for development and unit testing / API testing: 12 weeks

The list of APIs to be developed is as shown below:



Technology considerations:

* + Spring Boot
  + REST API
  + KAFKA
  + SWAGGER
  + PostGres Data Base
  + Oracle data base
  + API Versioning
  + E2E encryption of Payload
  + CQRS
  + Audit logging in required format
  + Open shift based Docker images with a fully automated CI/CD pipeline
  + Must be Sonar clean
  + Must be CAST clean

# ASSUMPTIONS

The following are the assumptions, which we have garnered about this project:

* The API requirements have to be got from the current code base for each API
* No changes will be made to Mobiquity
* It will be done in a Agile model with 3 week Sprints
* Tarang will develop and test their work from Tarang Development Center at Whitefield
* Tarang will be given access to the code base of Mobiquity from our office since we have to get Requirements from the code
* Tarang will have Mobiquity knowledgeable resources on the project since speed of execution is key

# TEAM STRUCTURE

The following is the team structure that Tarang has ready to deliver the project:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S No | Role | Skill set and years of experience | Domain knowledge | Availability for this project |
| 1 | Sr Technical Lead | 15 years , Java back end, hands on | 9 years in Payment Gateway/ Integrations ,knows Mobiquity | Yes |
| 2 | Technical Lead | 10 years, Java back end, hands on | Has over 6 years experience in Mobiquity | Yes |
| 3 | Module Lead | 7 years, Java back end, hands on | Has worked on Mobiquity in Comviva | Yes |
| 4 | Developer | 4.3 years, Java Spring boot | Not worked on Mobiquity | Yes |
| 5 | Senior Developer | 8.5 years , Java, JSP, Struts | Hands on with Payments background | Yes |
| 5 | Functional Testing Lead | 10 years experience, Java developer, | Has worked in Comviva, knows Mobiquity | Yes |
| 6 | Test engineer | 4 years , Selenium tester | No exposure to Mobiquity | Yes |
| 7 | Test engineer | 4 years, Manual tester | Has exposure to Mobiquity | Yes |
| 8 | Test engineer | 3 years , Manual tester | Has exposure to Mobiquity | Yes |

# 

# SPRINT PLAN

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sprint No | Project Task | Estimated start date | Estimated completion date | Task Owner |
| 1 | APIs in Target 1 | June 3 , 2019 | June 21, 2019 | ALL |
| 2 | APIs in Target 1 | June 24, 2019 | July 12, 2019 | ALL |
| 3 | TARGET 3: Modification of existing Admin UI for Target 1 APIs | July 15, 2019 | Aug 23,2019 | One Java developer |
| 4 | APIs in Target 2 | July 15 , 2019 | Aug 2, 2019 | ALL |
| 5 | APIs in Target 2 | Aug 5,2019 | Aug 23,2019 | ALL |
| 6 | TARGET 3 Modification of existing Admin UI for Target 2 APIs | Aug 26, 2019 | Oct 4,2019 | One Java developer |
| 5 | UAT by Comviva client of their 20 K test cases | Aug 26,2019 | Sept 13,2019 | ALL |
| 6 | UAT by Comviva client of their 20 K test cases | Sept 16,2019 | Oct 4, 2019 | ALL |
| 7 | Final acceptance | Oct 7,2019 | Oct 25,2019 | ALL |

Warranty : 90 days

Key points in call on 23rd May with Arunabha and Srikant and Biju :

During Target 1 and Target 2 API development, testing will be done alongside each Sprint. The Test cases will written after studying Comviva’s 2000 strong existing suite and will use same Data Builder but now written for new APIs.

Each sprint will be delivered along with 100 % Automation test suite.

Tarang Functional Testing Lead and Comviva’s Testing Head Biju will be aligned on this.

UAT testing by Comviva client will be on client’s 20 K test cases which client will execute.

Target 3: Modification of existing Admin UI will be started after Target 1 APIs are finished and will go in parallel with Target 2.

Tarang Lead will travel to Bhubaneshwar for a week to understand the design and meet Srikant and team to execute the project well.

Tarang Test Lead will travel to Comviva – Bangalore office for 2-3 days to understand the base frame work and test suites.