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| **Registration Service** |  |
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| Roles & responsibilities | Responsible for providing page to register the customer. Also add wallet details to customer. |
| Tech Stack | GKE, React(UI), Spring Boot, Java 8 , RDBMS |
| Data Model | Customer, CustomerAccount |
| Specs for external and inter micro service APIs | OPEN API |
| Testing strategy | TDD(Test Driven Development) and BDD(Behaviour Driven Development) |
| Reporting |  |
| Identify and resolve design trade off, explain why you chose one vs other. |  |
| Security | OAuth, Certificates |
| Logging & Monitoring | ELK |
| Scalability Auto scaling | GKE to auto scale once CPU reaches 75% load and |
| CI CD processes and tech stack | Maven, TeamCity/Jenkins/Bamboo, Jfrog Repository |
| Automation of test suites | Selenium for automation & Cucumber for behavioural testing. |

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| **Billers Service** |  |
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| Roles & responsibilities | Responsible for fetching Billers List from the third party service.  It also maintains cache so that it can keep Billers information.  Display Bill Information and provide PayNow functionality. |
| Tech Stack | GKE, React(UI), Spring Boot, Java 8 ,Distributing Caching(Hazelcast), RDBMS. |
| Data Model | Billers |
| Specs for external and inter micro service APIs | OPEN API, Swagger |
| Testing strategy | TDD(Test Driven Development) and BDD(Behaviour Driven Development) |
| Reporting |  |
| Identify and resolve design trade off, explain why you chose one vs other. |  |
| Security | OAuth |
| Logging & Monitoring | ELK |
| Scalability Auto scaling | GKE to auto scale once CPU reaches 75% load and |
| CI CD processes and tech stack | Maven, TeamCity/Jenkins/Bamboo, Jfrog Repository |
| Automation of test suites | Selenium for automation & Cucumber for behavioural testing. |

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| **Payment Service** |  |
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| Roles & responsibilities | Responsible for payments to Billers. |
| Tech Stack | GKE, Spring Boot, Java 8 , RDBMS. |
| Data Model | Transactions |
| Specs for external and inter micro service APIs | OPEN API, Swagger |
| Testing strategy | TDD(Test Driven Development) and BDD(Behaviour Driven Development) (Junit,Integration,Enzyme(UI)) |
| Reporting |  |
| Identify and resolve design trade off, explain why you chose one vs other. |  |
| Security | OAuth, Certificates |
| Logging & Monitoring | ELK |
| Scalability Auto scaling | GKE to auto scale once CPU reaches 75% load and |
| CI CD processes and tech stack | Maven, TeamCity/Jenkins/Bamboo, Jfrog Repository |
| Automation of test suites | Selenium for automation & Cucumber for behavioural testing. |

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| **FileHandler Service** |  |
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| Roles & responsibilities | Responsible for processing the files. |
| Tech Stack | GKE, Spring Boot,Spring Batch, Java 8 , RDBMS. |
| Data Model | File |
| Specs for external and inter micro service APIs | Swagger |
| Testing strategy | TDD(Test Driven Development) |
| Reporting |  |
| Identify and resolve design trade off, explain why you chose one vs other. |  |
| Security | Certificates |
| Logging & Monitoring | ELK |
| Scalability Auto scaling | GKE to auto scale once CPU reaches 75% load and |
| CI CD processes and tech stack | Maven, TeamCity/Jenkins/Bamboo, Jfrog Repository |
| Automation of test suites | Selenium for automation & Cucumber for behavioural testing. |