LIC Market-Driven System LIC, an insurance company, wants to digitize a range of business processes and provide a complete solution that addresses all aspects of the agent-insurer relationship. Consider yourself as a part of the Requirement Analyst team at Retinodes Software Company, and your job is to gather and prioritize the set of requirements. In this new requirement of the project, there are no existing systems that can be analyzed for the development. Requirements have to be gathered, negotiated, validated and prioritized through multiple stakeholders which is a complex process because all stakeholders have different perspectives, requirements and priorities. Therefore, Retinodes want to have a requirements engineering framework that can be used in market-facing projects. To start with, you need to identify the set of stakeholders associated with the system, the domain information about the insurance market, and possible features. The first product LIC wanted you to develop consolidated insurance packages which can compete with the packages provided by other insurance companies. Another product is based on the customer priority, based on the insurance policies available the customer can create his/her own package and send a request for the review. The system has to automatically analyze the package, provide suggestions (if any), and at last give a competing price for the package. To understand the problem domain, existing packages have to be analyzed and the demands and restrictions from the insurance policy and agents have to be understood completely. The requirements and feasibility report generated by you, will be further used by the development team for implementation.

- 1. Identify all the stakeholders and users of the systems. Enlist all features of the LIC Market-Driven system by each user of the system, in the form of user stories. Can you prioritize them using the requirement prioritization techniques? (e.g., AHP, Numerical Assessment, MoSCoW method, etc.) How? Provide details.
 - Government of India
 - Investors
 - Customers
 - Policy Makers
 - Policy Holders
 - Insurance agents
 - Employees, Manager
 - Outsourcing companies
 - Banks

Features of the LIC Market-Driven system:

- → As a user I should be able to create an account so that I can be a part of LIC.
- \rightarrow As a user I should be able to log in.
- → As a user I should be able to see all the policies that are available.
- \rightarrow As a policy holder I should be able to pay the premium of the policies periodically through the digital payment system.
- \rightarrow As a GoI clerk I should be able to see the data and analytics in some time period so that I can submit the relevant data to the government.

- → As a stakeholder I should be able to suggest new policies to optimize the gain.
- ightarrow As an Insurance agent I should be able to create packages to bring new packages to the market.
- →As an Insurance agent I should be able to get suggestions to bring tempting packages to the market.
- →As a user, I should be able to create my own packages based on the available insurance policies so that I can send a request for the review of the packages selected by me.
- \rightarrow As an insurance agent I should be able to track all the details of the policyholders that are under my assistance.
- 2. Prepare a list of market-facing technologies helpful for this project. According to you, would market-facing technologies be helpful in the proper deployment of the product? Why?

Front-end Technologies: Reactjs or Angular-js framework

Back-end Technologies: Database systems like PostgreSQL, Nodejs

Deployment: Heroku

Content Management System Marketing Attribution Software Email Marketing, Social-media Marketing Customer Experience Software

If the digital system comes to the market it will have a great impact on the customer base of LIC, because the main thing is that it will become more easier for the policy holder to do the payments of their policies, to the new users to see the different types of available policies according to their needs, insurance agents related to the system to maintain all the data of the policyholders under their assistance, and there are many other advantages as well, so the thing is that due to the digitalization in the system and the ease of the process and the policies available

- 3. Suggest an effective requirement engineering framework that can be used in market-facing projects because there are no existing systems that can be analyzed for the development so we need to consider all requirements from the core.
- \rightarrow Here we're unsure about the requirements, we can use a simple prototype model and focus more on requirements elicitation of the provided prototype for betterment and addition of features in our original prototype.
- → We will use the framework functionality as below;

Firstly to Develop requirements correctly by prototype upgrading, then retrieving the Document Requirements and check completeness, we will also include analysis, refinement, and decomposition of requirements and at last we will validate and manage requirements

We can also do some market research and stakeholder selection based on expertise of the product, sponsors and deliverables and also gathering the requirements by interviewing people

4. List out the possible features those are not feasible to consider. Can you provide justification for each of them in detail?

Online Verification of people (Aadhar card, Photo, Fingerprint) we will have to rely upon KYC centers.

Complete credit rating is not possible to be done completely online with higher accuracy as it will involve high risk and less accuracy.

In some health insurance policies the agents have to check all the health issues that are to the customer by doing some physical test or checking the health reports of the customer, which is not possible digitally.

Loan can't be provided to a customer without checking the proper

5. Let us assume that the customized package developed by the customer (using your second product) is similar to the package available in your pre-defined package. What is the possible reason behind this defect? How can it be ensured that this would not happen? In which requirements engineering activity, this defect can be handled? Please provide a scenario to justify.

There can be several reasons for the customized package being similar to the predefined package:

- 1),the pre-defined package is optimized to the financial capacities of the customer and any more customization to it would not yield any significant benefits to the customer which in turn would render the customization feature useless.
- 2), the analysis of the system can be poor which as a result will not provide a competing prize to the customers and will not interest them.

One of the ways to go around this is, we can provide users with different types of short term or long term benefits which would interest our customers to choose and customize their package thus, providing flexibility to the customers.

Yes, we can take the data in certain formats to validate the package accurately. In the validation stage we will first check the package with the existing one from our database. And already the suggestion system is asked to be developed, so we will suggest it as already existing even if it is not the same but similar. As far as the development is concerned we can include it in a new prototype.

6. Identify three different use cases where the conflicts between the requirements occur? Do you think that the conflicts can be resolved? How?

There can be a conflict that some package is giving a different price with some feature and if any customer makes a customized package from that package because it does not need all the features and if the package has more price than the basic package then he uses the basis system to be changed.

There is also a possibility that the package of the company[provide has more price then the same package made by customers can have less price. Company have to take care of the customized packages and they select the price on the basis of some basic packages.

7. Considering the set of features you have identified, what are the non-functional aspects associated with this system? Explain rationale behind the selection of each of them.

Durability: All transactions or any policyholder or customer's data should stay intact even in case of any hardware or software fault.

Performance: System should respond within some milliseconds of time.

Reliability: System should be available 24/7.

Scalability: Even if the number of users of the system increases, the system should remain reliable. Also, it should remain stable and available while adapting to changes, upgrades, overhauls, and resource reduction.

Privacy: Insurance policies and documents which the customer has uploaded must be kept in an encrypted manner and only accessible to the customer.

Authentication: Customers can request policies only after verification of his /her documents.

- 8. Can there be 'Open Issues'- issues those are identified but not taken care of? If yes, what are they? Are there some alternative ways for their resolution, such that no requirements conflict will happen?
- ightarrow Loan related work will be difficult to do in online mode because of the security or duplicate documents issues