

## WebInsurer

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**Abstract**— Insurance comprises of two parties, the insurer or insurance company and the insured. The insurance company provides risk coverage to their insured party. The purchase of any insurance from an insurer requires a lot of paper work and manual work. Practically, it is difficult to maintain all papers or purchased insurances in any particular order. There are more chances to modify or malpractice the purchased insurance. To avoid this problem, online insurance system has to introduce or has to develop. In the WebInsurer project, an online system is designed and developed for implementation of online insurance purchase. By using this application, information regarding different insurance types, insurance company's details and surveyor details can be maintained easily in a single application. Along with this facility, a policy holder can register for a WebInsurer and can purchase insurance policy at any time. In case of any accident or emergency, the policy holder can claim the purchased insurance. The policy holder can keep track of claimed policy through online system. The WebInsurer project provides a common environment or system to the insurer, surveyor and policy holder. A policy holder can purchase insurance online. In case of accident, the policy holder can claim his/her purchased policy against a damaged cost. The claimed policy is verified by the insurer and the survey is done by the associated surveyor. According to the survey the claimed policy will be processed. So, the WebInsurer project is a user friendly and process oriented online system.

**Keywords**— Insurance, Surveyor, Policy Holder, Report, Search.

### I. INTRODUCTION

The project WebInsurer is an automatic coverage facility for all the stroll of life. The WI begins from the registration of the purchaser. This follows some series of procedures like inspection and verification which eventually end up with either registration or rejection.

This method is completely computerized approach here the process have got to preserve the centralized database to store the expertise. The RDBMS database like SQL Server can equipped to share the info all users at the same time. Coverage holder can ready to apply declare request through this online approach. The request immediately obtained insurer, and ship this request to surveyor straight.

This utility is used to acquire information and we take the insurance coverage according to bases of transaction like month-to-month/yearly, manipulate method edit and delete, analyze the workflow, and produce know-how regarding the coverage Holder (patron). Application plays a main function in many insurance companies. Believe if it's any accident met

then Insurer send the request to the Surveyor together with policy Holder connected file. Then surveyor visit to the accident location and estimate the price range after that Surveyor send the information to the Insurer. Then Insurer pays the money to the policy Holder in keeping with the Surveyor comment.

The WebInsurer is an online insurance policy and the WebInsurer application starts from registration of the Policyholder. This follows some series of procedures like inspection and verification. This ultimately ends up with either registration or rejection.

Policy holder can able to apply a claim request through this online system. The request directly received insurer, and send this request to surveyor directly. Before claim request, Policyholder should register. Then only he/she can apply claim request to insurer. Insurer receives the claim request along with attached document and policy complaint number.

Insurer analyse all the information whatever Policyholder information, after analysing the Policyholder information then insurer send the request to the surveyor along with attached policyholder document. Then Surveyor go through the insurer request, suppose if it is any accident met then surveyor will go to accident place and collect all the information about survey. Surveyor then finally sends all the information to insurer about survey.

Suppose if the policy holder needs to view the status about survey possess policy details, he/she will be able to login to coverage fame page with the aid of using the coverage holder id and password which had already sent by using coverage manufacturer to view their own details.

This utility is used to collect knowledge and might take the coverage consistent with bases of transaction like month-to-month/each year, manipulate means edit and delete, analyse the workflow, and produce understanding involving the policy Holder (consumer). Utility plays an important role in many coverage companies. Suppose if any accident occurs then Insurer can send the request to the Surveyor along with policy Holder attached to that record. Later surveyor can visit to the accident situation and estimate the finances after that Surveyor send the knowledge to the Insurer. Then Insurer pays cash to the policy Holder in step with the Surveyor remark.

### II. RELATED WORK

The present approach everything is the manually entered. It is rather tricky for a all person to create the record. There are

possibilities for altering the scheme file and do malpractice. This procedure involves a number of guide entries with the applications to participate in the favoured undertaking. Lot many papers will be wasted and complicated to maintain. Utilization of papers in the cost system leads to less effectively, less accuracy and productivity additionally goes down.

The prevailing method appears older and has now not adopted the today's technological aspects that make the process irrelevant and Un-connects to the quickest growing society. The next facets certainly describe the view of the existing procedure with simple and non- technical terms:

- Entry of every document is made on paper.
- More use of man-energy.
- Extra use of paper, money and time.
- Worker preservation cost is extra.
- Difficult to look and Traverse through files and keep them.
- Errors in writing results in faulty future operations.
- Data saved bodily.
- Much less information protection and not more secured operations
- No again-up and repair facility of data.
- Lack of data due to any surprising accidents leads to significant loss.
- No privatives between exclusive phases of customers.
- Not much customer pleasure.
- Less manage of amounts.

### III. FEASIBILITY STUDY

We use the Feasibility analysis for development and analysis purpose. The development in the proposed system is based on investigation and research to give full satisfaction for the decision makers. The main intension of the feasibility study is used to uncover the strength of the proposed system and weakness of the existing system such as defects present in the system environment, and resources required to carry out the process to arrive at ultimate solution.

A good feasibility study must provide working architecture of the project, resources used to satisfy user and customers and how resources are used to arrive at solution. Feasibility study is generally done before the start of project implementation. A feasibility study evaluates the project potential for success. There are three aspects in feasibility study:

#### A. Economic Feasibility

It specifies the economic benefits of the organization by employing the proposed system. It involves identification of all expected benefits. It also includes cost benefit analysis. The proposed system minimizes almost 70% work of staff compared to existing system. Report generation is done and generated reports are accurate, and save time wasted in

correcting reports. The proposed systems save time, energy and money at a very good ratio compared to existing system.

#### B. Technical Feasibility

It is used to get an understanding of present technical resources of the project. The hardware and software of the existing system are verified meet the needs of proposed system. It helps to analyze if new technology is needed, what the proposed system will offer. It also specifies the benefits of developing the proposed system and how it overcomes the problems of existing systems.

The proposed system is technically feasible and adoptable by all users of the insurance, as the proposed system is a website with authentication and is not new to the market. The basic requirements that are necessary to achieve full functionality of the system are Computer system.

#### C. Operational Feasibility

The main aim of Operational feasibility is used to checks, how well the proposed system solves the particular problem and how user requirements are satisfied as mention the Requirements analysis phase. It focuses on the proposed system fits with the existing work environment. It has to be an integral part of early design phases.

The WebInsurer is an automated insurance policy, and before going to take the Insurance Policyholder must register with site. Then Policyholder can able to apply a claim request through this online system. The request directly received insurer, and send this request to surveyor directly. Provides an all in one interface to complete their tasks and achieve a solution at greater speed.

### IV. SOFTWARE REQUIREMENT SPECIFICATION AND SYSTEM DESIGN

Application Requirement Specification (SRS) is the very commencing step for progress mission. It's the medium by means of which the purchaser and person needs are thoroughly specific via producing the requirement specification file, which describes the outside behaviour of the proposed program.

This permits the developer to understand the programs features and it must be carried out and check for efficiency degree to be received and corresponding interface to be based. The SRS (program Requirement Specification) performs a valuable role in designing a challenge. SRS way the requisites which are wanted for assignment designing and establishing. The entire information, which might be wanted for setting up challenge, will probably be maintained on this record.

It is invaluable in interacting with the developer and patron on the grounds that if developer desires any clarification concerning the venture then developer have to keep in touch with the consumer so how the designing should be each information is given through the patron itself and we can doing task for the purchasers so as per the customer says the developer should design the mission.

The SRS will likely be more commonly used for changing consumer ideas into formal record.

Accessories of a SRS:

The elemental disorders an SRS ought to address are:

- Functionality
- Efficiency
- Design constraints imposed on an implementation
- Outside interfaces

## SYSTEM DESIGN

System design is the process of defining the elements such as the architecture can be one of the element to system design, modules is nothing but where overall project is difficult to implement so to reduce the complexity of project will divided into modules and components. It is designated to satisfy the categorical needs and requisites of a business or organization through the engineering of a coherent and well-running system.

### A. Data Flow Diagram

This describes a flow of control. And it is a structured analysis and implementing a design that can be used for flowchart to shows the flow of control. Where it shows how actual data can be passed from one phase to another it will show the step by step process how actual data will be goes throughout the system. When will analyzers prepare the Data Flow Diagram, they will get to know how the information will flows throughout the system and we can also check how the information is flowing from the initial level to the final level. This network is constructed by making use of symbols by seeing that symbols we will come to know how the actual process will carry out.

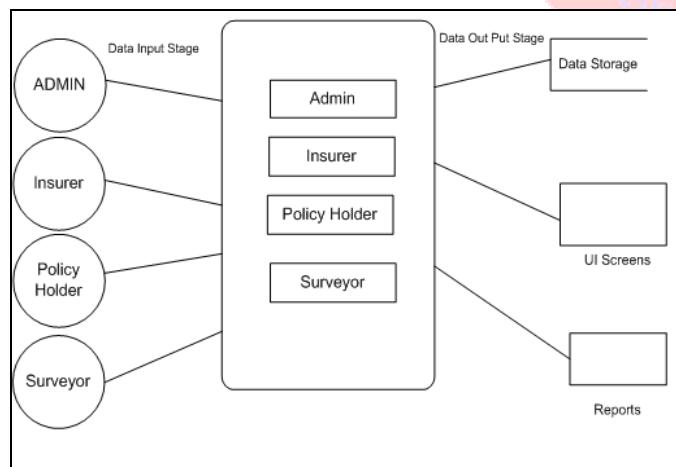


Fig 1 Context Level DFD for WebInsurer Application

### B. Class Diagram

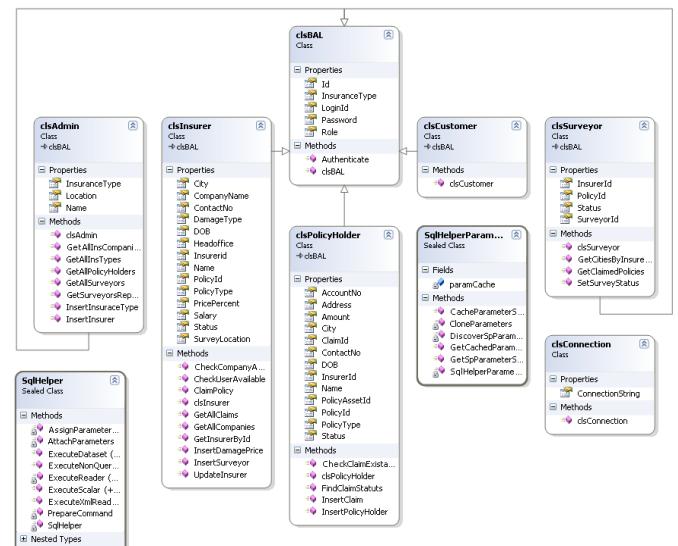


Fig 2 WebInsurer Application class diagram

### C. Use Case Diagram

Use case diagram shows the functionality of the system and relationship between actor and system.

Use case diagrams represent the functionality of a system according to the user

Components of use case diagram:

- Actor: is the user who is interacting with the system. The actor will no more part of system.
- Use case: Is represents the behaviour of the system. It is indicated by oval shape
- System boundary: It is shown as a rectangle. It shows what all work done in that.
- Relationship: Relationship between use case and actor is making use of two terms one is Extends and other is Uses. Notation used to show the relationships : <>>

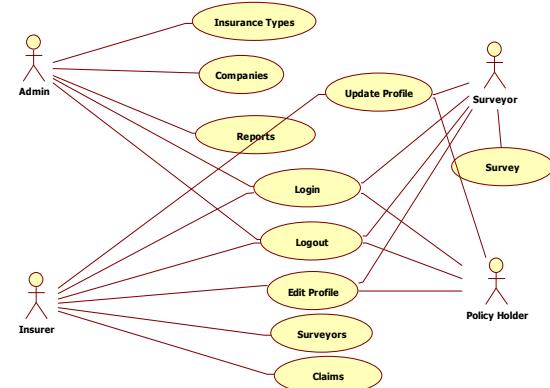


Fig 3 Overview of Use case Diagram

## IV. IMPLEMENTATION

Implementation is the stage where all the designed is was working method. If implementation is not good planned or

managed then the process is not going to work safely so developer must handle that and he have got to deliberate cautiously to put in force the method. If any supply code is corrupted then there can be hindrance in implementing the system.

Implementation takes position the hobbies that to transform any historic process to the up-to-date process. The new system might be exchanging the present process. A new procedure is not going to furnish any assurance to make use of the brand new approach in a group. The most important points of method implementation is education without suitable education no person can put in force the software. Training earlier than actual implementation takes situation we ought to coach the consumer how one can put in force the software. Testing must be accomplished whether or not software is working safely or no longer. Changeover as the new standards is introduced it must manipulate to adjust with the brand new requisite.

### **Modules**

The project “WebInsurer” involves the fallowing modules:

#### **A. Administrator**

- Can Add insurance details into the approach (like Accident, hearth, general, and so on, fire coverage in this case).
- Can Add/replace the Insurer (insurance manufacturer) details into the process.
- Can generate studies based on insurance kind, Insurer, Surveyor, period like monthly & every year, and so forth.

#### **B. Insurer**

- Will receive the request claim from the policy Holder for a certain coverage.
- Will affirm the uploaded documents and reports the files towards the gadgets broken which can be protected and now not blanketed underneath the coverage.
- Assign the undertaking to the Surveyor by sending the request details along with connected records.
- Will have to get the comments of the Surveyor concerning the survey.
- He/she will be able to accept/Reject/modify the insurance declare amount together with integral remarks.
- Can replace the repute of the insurance declare into the approach.

#### **C. Surveyor**

- Will have to competent to Login to the system.
- Must acquire the claim Request details of the policy Holder along with crucial files hooked up.
- Will have to able to send back the feedback about the Survey to the Insurer along with Survey reviews.

#### **D. Coverage Holder**

- Client can register with the web site and login to the website online.

- Can replace the main points of Insurances has taken towards the belongings (like residence, computer, auto, vehicle, goods, and many others.)
- Will have to make the Request for coverage claim together with indispensable details.
- Should upload the Police criticism report as attachment for the Request.
- Will have to capable to examine the popularity of Request through online method.

#### **E. Studies**

- Quite a lot of varieties of reports are generated by the method.
- Claims studies which are processed or not processed
- take delivery of/Reject Claims reports
- Claims transactions like monthly, every year and many others.

#### **F. Search**

Search is a module which can be used through all the user . Admin can able to search Insurer details, insurance form, surveyor important points and so on. Insurer can able to look the coverage information and files of a policy holder while checking the declare request. Policy holder can capable to look the repute of request by means of the method interface for his claims.

#### **G. Authentication**

Authentication is nothing but providing security to the user. When user register through online then insurer will automatically generate the user id and password to the user. By registering the user should enter the same user id and password. Then systems will checks weather the user is valid user or not. Suppose if he/she is valid then only will allow to further operations otherwise it will display like invalid user id and password. But that user id is unique for all the users. This will used for security purpose because this will not allow to loss the information.

### **V. RESULTS**

After implementing the proposed, the results obtained are as follows:

Screenshot# 1: WebInsurer Home

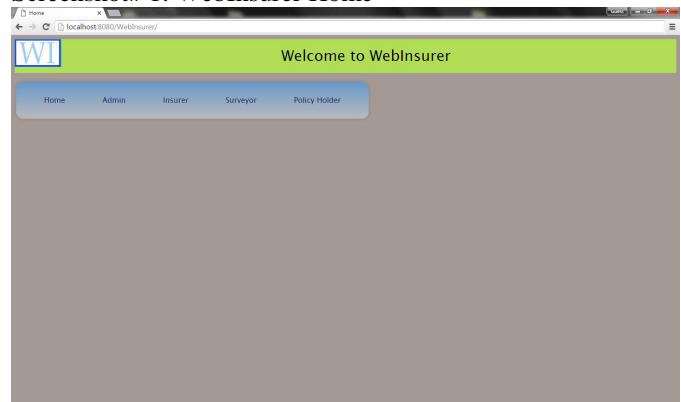


Fig 4 Screen for WebInsurer Home

Screenshot# 2: Admin Login

Welcome Admin  
Please enter your credentials:  
Username: Enter your Username  
Password: Enter your password  
Login

Fig 5 Screen for Admin Login

Screenshot# 3: Admin Home

Welcome to WebInsurer  
Home Admin Search Logout  
Add Insurance  
Add/Update Insurer  
Reports

Fig 6 Screen for Admin Home

Screenshot# 4: Admin – Add Insurance

Welcome to WebInsurer  
Home Admin Search Logout  
Add Insurance  
Company Name:   
Insurance Type:   
Effective Date:   
Expiration Date:   
Add Insurance

Fig 7 Screen for Admin Add Insurance

Screenshot# 5: Admin – Add/Update Insurer

Insurer Code	Insurer Name	Company Name	Coverage Type	Country
ASGI	John Peter	Asia Company Limited	P	India
SCIA	Williams	Allianz Company Limited	P	Brazil

Fig 8 Screen for Admin Add/Update Insurer

Screenshot# 6: Admin – Add Insurer

Welcome to WebInsurer  
Home Admin Search Logout  
View All Insurers  
Add/Update Insurer  
Insurer Id:   
Password:   
Insurer Name:   
Company Name:   
Coverage Type: Primary  Excess   
Insurance Type: -Select-  
Country:

Fig 9 Screen for Admin Add Insurer

Screenshot# 7: Admin – Reports

Welcome to WebInsurer  
Home Admin Search Logout  
Reports  
Policy Report  
Is Claimed? -Select-   
Claim Report  
Status: -Select-   
  
Policy Report  

Policy Number	Update Timestamp	Vehicle Type	Vehicle Reg No	Vehicle Reg Date	Vehicle Price	Transaction Type	Premium Amount	Max Claim Amount	Is Claimed?
14	2007-01-01 01:05:15.0	Bike	KAO5 4044	2016	49000		45000	45000	Y
15	2007-01-01 04:34:0.0	Car	KA32 L4113	2015	30000		30000	30000	Y
17	2007-01-01 00:46:52.0	Bike	KA 32 L 4113	2013	3000		10000	10000	Y

  
Claim Report  

Policy Number	Update Timestamp	Vehicle Type	Vehicle Reg No	Vehicle Reg Date	Vehicle Price	Transaction Type	Premium Amount	Max Claim Amount	Is Claimed?
14	2007-01-01 01:05:15.0	Bike	KAO5 4044	2016	49000		45000	45000	Y
15	2007-01-01 04:34:0.0	Car	KA32 L4113	2015	30000		30000	30000	Y
17	2007-01-01 00:46:52.0	Bike	KA 32 L 4113	2013	3000		10000	10000	Y

Fig 10 Screen for Admin Reports

Screenshot# 8: Admin – Search

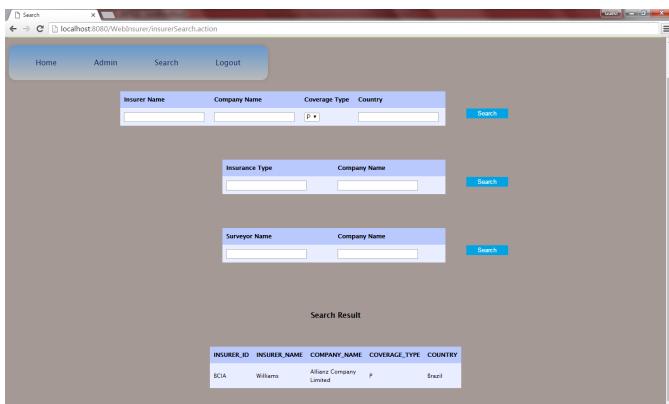


Fig 11 Screen for Admin search

Screenshot# 9: Logout



Fig 12 Screen for Surveyor Logout

## VI. CONCLUSION

This project makes the Insurance system as simple and user friendly. As this project includes different types of users, this project combines all the features for different users. This project contains the report generation module it helps to maintain insurance related information. We can search the insurance related data based on Insurance type, Insurer type and Surveyor.

By working on this project, we can learn basic knowledge about Insurance domain and Java Technology such as Core Java, Servlet, JSP, JavaScript and SQL database.

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