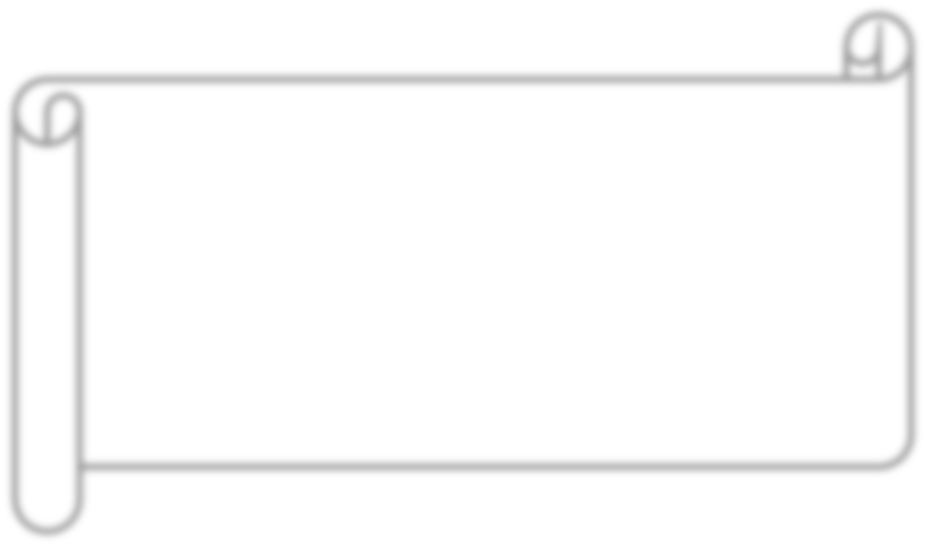
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* 1. Project Description
  2. Project Profile





**1. Introduction**

# Project description

Nowadays insurance has been widely accepted by the public. There are many types of insurance such as life insurance, accident insurance, car insurance and many more. In the existing system of insurance management all the insurance record keeping work is done manually. It requires too much time. So we plan to automate insurance management. This is a web base application carried out with the help of MERN Stack. It includes Mongo DB Database, Express.js Framework as well as React in Frontend and node.js in Backend. The insurance company has to keep track of details about policy, agent, premium, customer and much more. This web provides all kind of insurance policy in one portal.

* + - Features:
      * Systems are categorized into four categories for take difference type of insurances.
      * Before take any type of service, User have to register first.
      * Home page display all categories of insurance and in the particular categories user able to see many register company of insurance.
      * After users complete the all insurance selection process, user gets details through email and in PDF format.
      * Register Company receives users details PDF by our system.
      * User and admin can forget their password.
      * Admin can manage all type operation of system. Admin has every permission.

# Project Profile

|  |  |
| --- | --- |
| Project Name | Insurance Agency Management System |
| Front-End: | React.js |
| Back-End: | Node.js / Mongo dB |
| Browser: | All Browser Supported |
| Technology | Express.js , node.js , react.js , Mongo dB ,  HTML , bootstrep5 , CSS |
| Guided By: | Ass.Prof. Mansi shah |
| Platform: | Node.js 16.14.0 , React.js 17.0.2 |
| Tools Used For: | Visual Studio code , Mongo Compass ,  Postman |
| Submitted To: | Sutex Bank College Of Computer Application  And Science Amroli, Surat |
| Developed By: | Dhameliya Mihirkumar R. Dobariya Abhishek H. Dudhatra Trunal D.  Finaviya Prince D. |

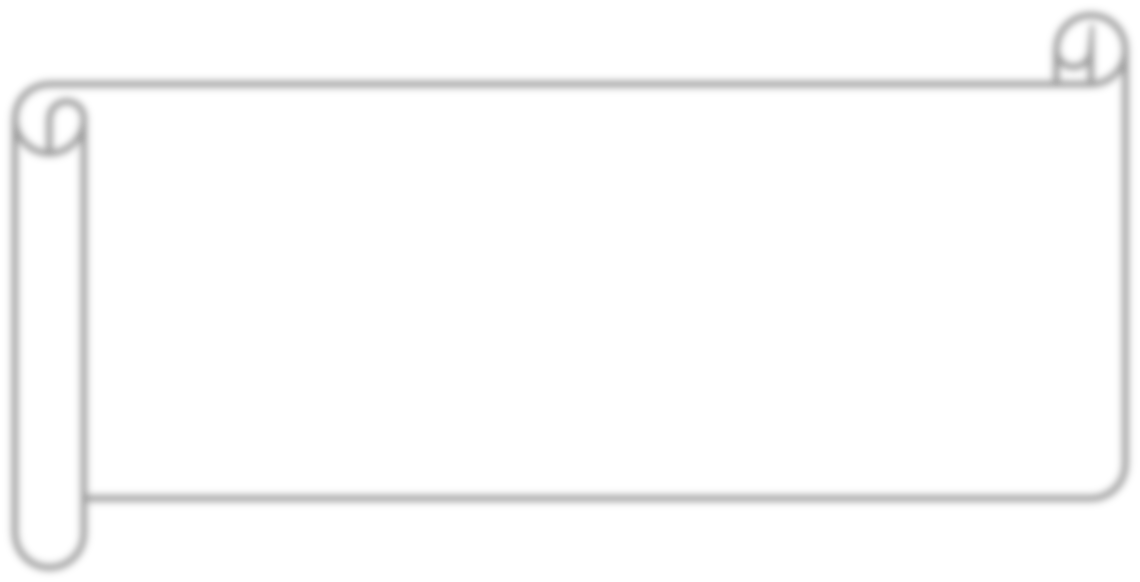




2.1 Hardware and Software Requirement



2.2 Technologies Used





**2. Environment Description**

* 1. **Hardware and Software Requirements**

The efficient hardware and software configuration require running the system is as suggest below. The configuration suggested is for better performance. Same functionality or higher configuration will always better.

## Client Side :

Internet Enabled Device with Web-browser

## Server Side :

* + - * Mongo DB Data base
      * Node.js 14.16.1

## Development Side :

* + - * **Processor :** Intel core i3 7th generation
      * **O.s :** Windows 10
      * **Memory :** 4.00 GB (**8.00 GB Recommended**)
      * **Hard-Disk :** 1.00 TB
      * **Web-Browser :** Google Chrome (Recommended)

# Technologies Used

## Overview of React.js :



* React is a JavaScript library for building user interfaces.
* React is a library for building compassable user interfaces. It encourages the creation of reusable UI components, which present data that change over time.
* React abstracts away the DOM from you, offering a simpler programming model and better performance
* React can also render on the server using Node, and it can power native apps using React Native. React implements one- way reactive data flow, which reduces the boilerplate and is easier to reason about than traditional data binding.

## React Advantages

* Uses virtual DOM which is a JavaScript object. This will improve apps performance, since JavaScript virtual DOM is faster than the regular DOM.
* Can be used on client and server side as well as with other frameworks.
* Component and data patterns improve readability, which helps to maintain larger apps.

## Overview of Node.js:

* + - * Node.js is a server-side platform built on Google Chrome's JavaScript Engine (V8 Engine)
* XAMPP is regularly updated to the latest releases of apache, Maria DB, PHP, and Perl.
  + - * Node.js is an open source, cross-platform runtime environment for developing server-side and networking applications. Node.js applications are written in JavaScript, and can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux.

## Features of Node.js

Following are some of the important features that make Node.js the first choice of software architects.

* Asynchronous and Event Driven − All APIs of Node.js library are asynchronous, that is, non-blocking. It essentially means a Node.js based server never waits for an API to return data. The server moves to the next API after calling it and a notification mechanism of Events of Node.js helps the server to get a response from the previous API call.
* **Very Fast-** Being built on Google Chrome's V8 JavaScript Engine, Node.js library is very fast in code execution.

## Overview of CSS :



* + - * CSS is the languages we use to style an HTML document.CSS describe how HTML elements should be displayed. This tutorial will teach you CSS from basic to advance.

## The Benefits of CSS:

* Greater typography and page layout controls

With style sheets, you can specify traditional typography features that you could never do with HTML alone (even with its presentational extensions).

* Less Work

Not only can format all similar elements in a document with a single style rule, external style sheets make it possible to edit the appearance of an entire site at once with a single style sheet edit.

* Potentially smaller documents

Redundant font tags and nested tables make for bloated documents. Stripping Presentational HTML out of the document save on file size

## Extra Technologies

* + jQuery

JQuery is a cross-browser JavaScript library designed to simplify the Client side scripting of HTML. It was released in January 2006 at Bar Camp NYC by John Resign. Used by over 55% of the 10,000 most visited website, JQuery is the most popular JavaScript library in use today. JQuery is free, open source software, dual-licensed under the MI License or the GNU General Public License, Version 2.jquery’s syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications. The modular approach to the JQuery library allows the creation powerful dynamic web pages and web application.

* + JavaScript

Java script is a programming language that can be included on web pages to make them more interactive. You can Use it to check or modify the Content of forms, change images. Open new widows and write dynamic page content. You even use it with CSS to make DHTML. This allows you make parts of your web pages appear or disappear or move around on the page. JavaScript is a client side, interpreted, object oriented, high level scripting language, while Java is a client side, compiled, object oriented high level language.

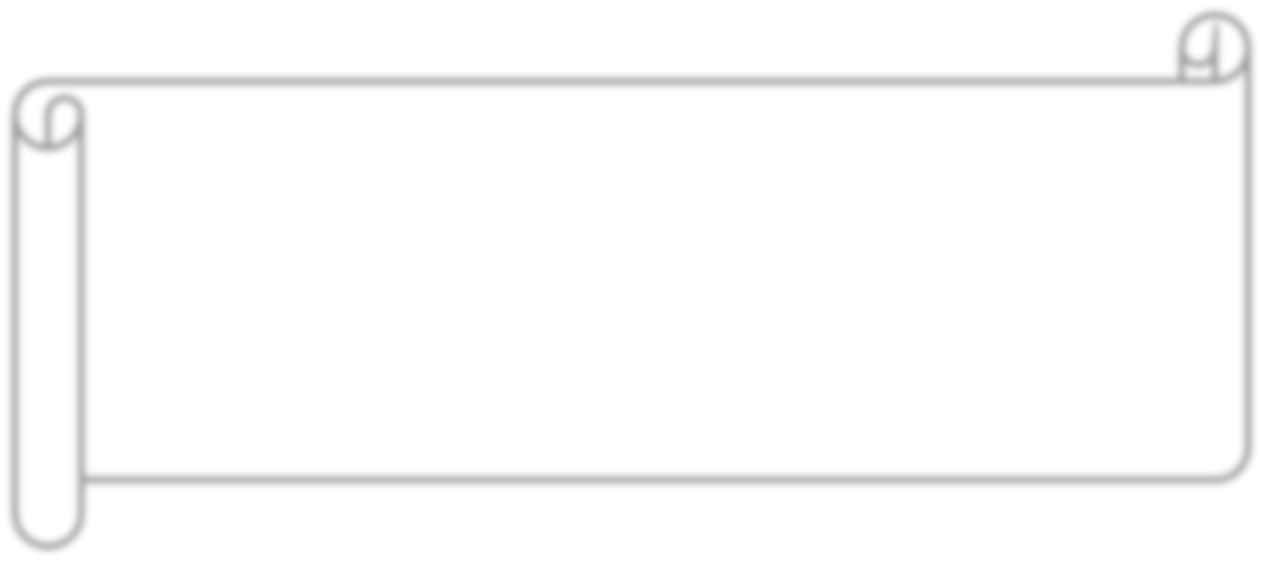
* Bootstrap

Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web. It would be easy to send you over to their Getting Started page and call it a day. Their setup guide is indeed a host of useful information - links to CDNs, explanations on how to install with Bower, NPM, and Composer, information on integration with Autoprefixer and LESS, a bunch of templates, licenses, and translations.





* 1. Existing System and Drawbacks
  2. Feasibility Study
  3. Requirement Gathering And Analysis





**3. System Analysis and Planning**

# Existing System and its Drawbacks

Our aim is “Customers want to be able to buy online insurance with confidence”. According to business experts the news came that the entire insurance industry will adopted by the e-commerce. So the peoples those who still referring offline insurance to make them understandable, easily adoptable about online insurance our research will help them.

For a new generation of working professionals, online insurance is the bridge that connects the digital age and the challenges of adult life. With internet access is rising and a young generation of working middle class professionals reaching the cusp of adult life, online insurance business is gathering momentum.

Our research reveals that, while of course there are significant variations in customer attitudes and behaviours around the globe, driven by the diverse economic, demographic, competitive and regulatory environments, there are some underlying themes that are remarkably consistent. Listen to the voice of the customer.

**Following are some drawbacks of existing system :**

# Feasibility Study

The feasibility of our project has been judged on the time, technology, resources available and project length.

* Time:- This project takes at least 3 months to be completed if we take help of reused components; otherwise it may take more than 5 months to be completed.
* Technology:- This project is built on React.js & Node.js platform which is worldwide already standard. There for the technical risk is not so high hence feasible.
* Resources:- Good technology professionals are a basic requirement. Internet and favourable environment, etc. the resources were fully available.

## Economic Feasibility :

The prime requirement of this project is an internet connection as the project been developed is a Website. Moreover, it also demands for good server for data redirection and high speed and efficient CPU ram and processing and managing the online transaction done by the online Jobseeker & Recruiter.

## Technical Feasibility :

This website requires high and up-to-date technology. It needs database feedback and also needs to be accessed through web and internet. This can be done easily, so online payment should be facilitated.

We provide our clients with the right worker for their job. So that clients can do their work easily and with proper use of their time.

We provide our worker with the right clients for their job. So that worker can do their work easily and with proper use of their time.

### Management Feasibility :

Management feasibility ratio and aspect of management news. Here all level of management rise of related basic feasibility and gives their decision for all those feasibilities to use or not is not comes in basic feasibility of system, bus how the requirement of that all, after that all manager.

### Operational Feasibility:

The web application can be beneficial only if it satisfies the organization requirement; in such a way that resource utilization & optimum outcome is justified. A web application should not only be robust but should also be able to work simultaneously with other systems. Operational feasibility means that web application should not affect any existing system during the development phase or even in the implementation phase.

### Behavioural Feasibility :

The new system can be beneficial only if it satisfies the organization requirements. In such a way that resource utilization and optimum outcome is justified. A new system should not only be robust but should also be able to work simultaneously with other systems. Operational feasibility means that new system should not affect any existing system during the development phase or even in the implementation phase. Following are some points underlying the operational feasibility of the system. As the development proceeded many doubts got clear doubt.

* + Our project guide- Asst. Prof. Mansi Shah guided us to take proper care and check for the operational feasibility of the system.
  + Efforts were made to optimize the human efforts in data collection, storage, retrieval, security and presentation.
  + The proposed system made best efforts in achieving necessary function and performance. As required by the user and keeping in mind some infrastructure constraints. Some of the following issues raised are to test the operational feasibility of a project includes the following.
  + In there a sufficient support for the management from the user?
  + Will the system be used and work properly if it is being developed and implemented?
  + Will there be any resistance from the user that will undermine the possible application benefits?
  + This system is targeted to be in accordance with the above mentioned issues. Beforehand, the management issues and user requirement have been taken into consideration so there is no question of resistance from the user that can undermine the possible application benefits.

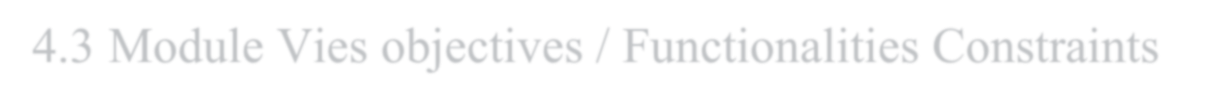
# 5.3 Requirement Gathering And Analysis

### Requirement Gathering :

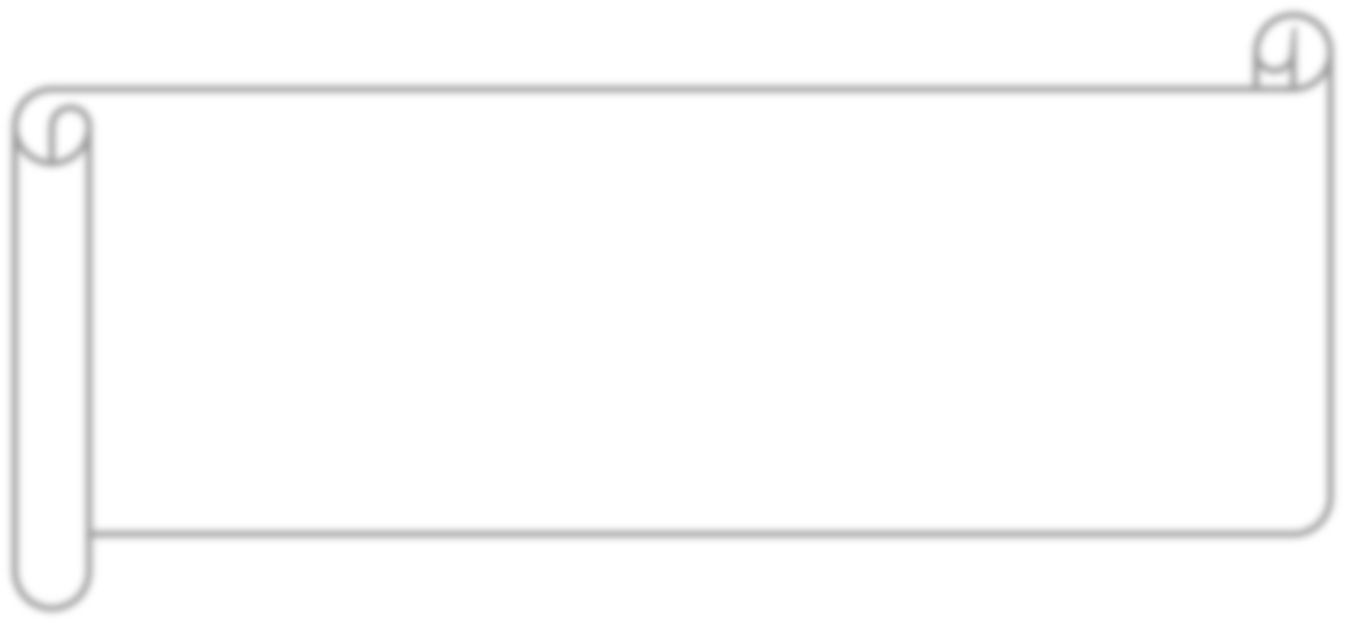
* + Before developing elegant application ,best way to identify basic needs and functionality is to take interview of director and management who are working in that specific area addressed by proposed application.
  + For gathering basic needs and functionalities, we had meeting with people personally to understand required functionalities also noted down some useful feature to be included.
  + Every successful system passes through requirement gathering because without any requirement the development process is like adding bugs in empty system.
  + Requirement gathering and analysis makes the whole picture of the system and because of that we can identify the features, the modules, and the functionality of the system.

### Requirement Analysis :

* + System should be able to provide registration facility.
  + System should provide safe login facility
  + System should provide forgot password facility
  + system should manage email subscriber , Contact , Skill
  + System should able to add or remove insurance company and also manage its information.
  + System should able to manage Review, Designation, Staff



* 1. Scope
  2. Project Module
  3. Module Vies objectives / Functionalities Constraints
  4. Expected Advantages





**4. Proposed System**

# Scope

The current project of WEB ANALYSIS we have undertaken, the corresponding scope of our intranet website is as follows: For

* + - This is a user friendly layout & easy to understand for every users or service providers.
    - It will allow User to recover password.
    - It Also allow Service Providers to recover password
    - It will allow user to give feedback.
    - It is able to Give information of registered Users and also edit that information.
    - It allows sending mails.

# Project Modules

1: Admin

2: User

3: Insurance Company

# Module Wise objectives / Functionalities Constrains

The main objective of Insurance Agency Management system is to Provide Service of insurance Policy to the customer .

## Admin

* Admin can upload / delete / edit insurance policy for insurance company
* Admin can manage user
* Admin can manage insurance company
* Admin can manage their profile
* Admin can change password

## User

* + - * User can register It self
      * User can login
      * User can manage their profile
      * User can view policy
      * User can get quote
      * User can change password

## Insurance Company

* + - * Insurance Company Panel can upload / delete / edit insurance policy
      * Insurance Company Panel can manage their profile
      * Insurance Company Panel can change password
      * Insurance Company Panel can generate document for user inquiry

# Expected Advantage

## High Security

There is high security mechanism provided by the proposed system. No unauthorized person can make change in the data those are stored in application. Only authorized person can change & also can make login. Also, systems provide the two step authentication for security reason.

## Easy and Fast Response

The All user’s data are store in online centralize database. So, users access data from anywhere and any device. No need to any other device for run application in device. Separate login for separate users like faculty, student and admin.

## Less Time Required

In our system, all the processes are carried out by web so obviously users can purchase Insurance from anywhere according to their timing and also Customer can purchase different kind of insurance from our Web-site.

## High Amount of Accuracy

In our application there are less amount of human activities are involved in that case it will have less effect in our accounts. Before Insurance Company register, we can verify insurance company details for the security.

## Easy to use

WCSY insura is giving easy and responsive interface for mobile and tablet to online insurance services through web. We are providing a help line number, so that user can easily communicate with system.