

SRS DOCUMENT GENERATOR

J COMPONENT PROJECT REPORT

Winter 2020-21

Submitted by

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in partial fulfilment for the award of the degree of

B. Tech

in

Computer Science and Engineering



Vellore-632014, Tamil Nadu, India

School of Computer Science and Engineering

June 1, 2021

ACKNOWLEDGEMENT

In the present world of competition there is a race of existence in which those are having will to come forward succeed. Project is like a bridge between theoretical and practical working. With this willing we joined this particular project.

First of all, we are feeling oblige in taking the opportunity to sincerely thanks to honorable G. Viswanathan (Founder-Chancellor, VIT University). Next we would like to thank Dr. Saravanan R (DEAN, School of Computer Science and Engineering) and special thanks to Dr. Vairamuthu S (Head of Department, School of Computer Science and Engineering).

Last but definitely not the least; we would like to express our special thanks of gratitude to our Software Engineering faculty, Dr. Swathi J N, who gave us the golden opportunity to do this wonderful project on the topic "SRS Document Generator". Any attempt at any level can't be satisfactorily completed without their friendly behavior and generous attitude, thus we are really grateful to all of them. We are overwhelmed in all humbleness and gratefulness to acknowledge our depth to all those who have helped us to put these ideas, well above the level of simplicity and into something concrete.

EXECUTIVE SUMMARY

Every project begins with a requirement. Understanding the types of users and their requirements is the most important part of a project. Each type of user may have their own requirements. The project must make sure to cover all of them. But just knowing the requirements is also not enough, it is also important to lay out the groundwork for fulfilling the requirements. For executing the requirements, a proper document must be made consisting of all the stakeholders of the projects, their requirements and constraints which need to be taken care of along with the functionalities of each requirement. Software Requirements Specific document completes the need for the same.

The SRS document allows the developers to execute the project as required. But for that to happen, the document must be made with precision. Not everyone has time to work on every single word written on the document. To free people from the hassle of constructing the whole document from scratch, we bring a Web based App which will generate the SRS document based on simple questions answered by the developers. This way, the developers only need to work on the ideas and requirements of the users.

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ABBREVIATIONS:

Table of Definitions, Acronyms, and Abbreviations

Definition, Acronym, or Abbreviation	Description
SRS	Software Requirement Specification.
SDS	Software Design Specification

1. INTRODUCTION:

1.1. OBJECTIVE:

The objective of the Software Design Specification is to describe the specific design of the Software Requirements Generation using a Web-based platform. The design specification includes an overview of the design along with software module decomposition.

This document provides a detailed description of each software module's design. For each module, a user interface design and class diagram design are given. As well, a process description is described for each module. It is in the process description that the details of what logic will need to be implemented are given.

1.2. MOTIVATION:

Every project begins with a requirement. Understanding the types of users and their requirements is the most important part of a project. Each type of user may have their own requirements. The project must make sure to cover all of them. But just knowing the requirements is also not enough, it is also important to lay out the groundwork for fulfilling the requirements.

For executing the requirements, a proper document must be made consisting of all the stakeholders of the projects, their requirements and constraints which need to be taken care of along with the functionalities of each requirement. Software Requirements Specific document completes the need for the same. The SRS document allows the developers to execute the project as required. But for

that to happen, the document must be made with precision. Not everyone has time to work on every single word written on the document. To free people from the hassle of constructing the whole document from scratch, we bring a Web based App which will generate the SRS document based on simple questions answered by the developers. This way, the developers only need to work on the idea and requirements of the users. The documentation will be constructed just by stating the same.

1.3. BACKGROUND:

Software requirements specifications (SRS) are hard to compare due to the uniqueness of the projects they were created in. In practice this means that it is not possible to objectively determine if a project's SRS fails to reach a certain quality threshold. Therefore, a commonly agreed-on quality model is needed.

Link: <https://ieeexplore.ieee.org/document/4685703>

The general area of requirements for software systems as specified by either potential customers/users or designers/producers and constituting the substance of an agreement between them.

Link: <https://ieeexplore.ieee.org/document/720574>

This paper focuses on software requirements documentation and more specifically on the software requirements specification document. It aims to help the requirements engineers to be more efficient in writing this document via dynamic modelling.

Link: <https://ieeexplore.ieee.org/document/6916656>

This paper aims at identifying and investigating the quality of the Software Requirement Specifications (SRS) document and the relationships between the technical, organizational, and interpersonal factors. Requirements are the foundation of the project, and they form the basis for design, manufacture, test and operation. The SRS details both functional and technical system requirements that are used for the design process.

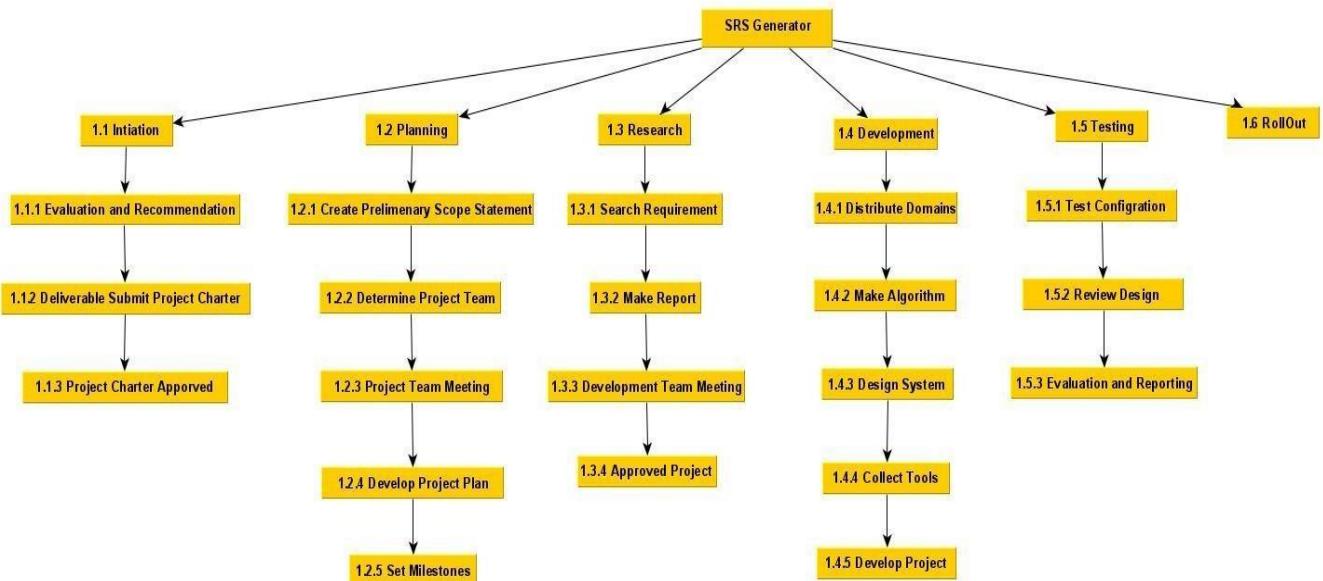
Link: <https://doi.org/10.3182/20120523-3-RO2023.00407>

2. PROJECT DESCRIPTION AND GOALS:

As every company has a slightly different format of SRS Documents, the description of the current version of SRS Generator remains quite broad. It fits the needs of most of the developers, freelancers or otherwise, as the format of the generated document is generic. We have tried to include every possible aspect that would help a developer to get the SRS document generated according to their requirements.

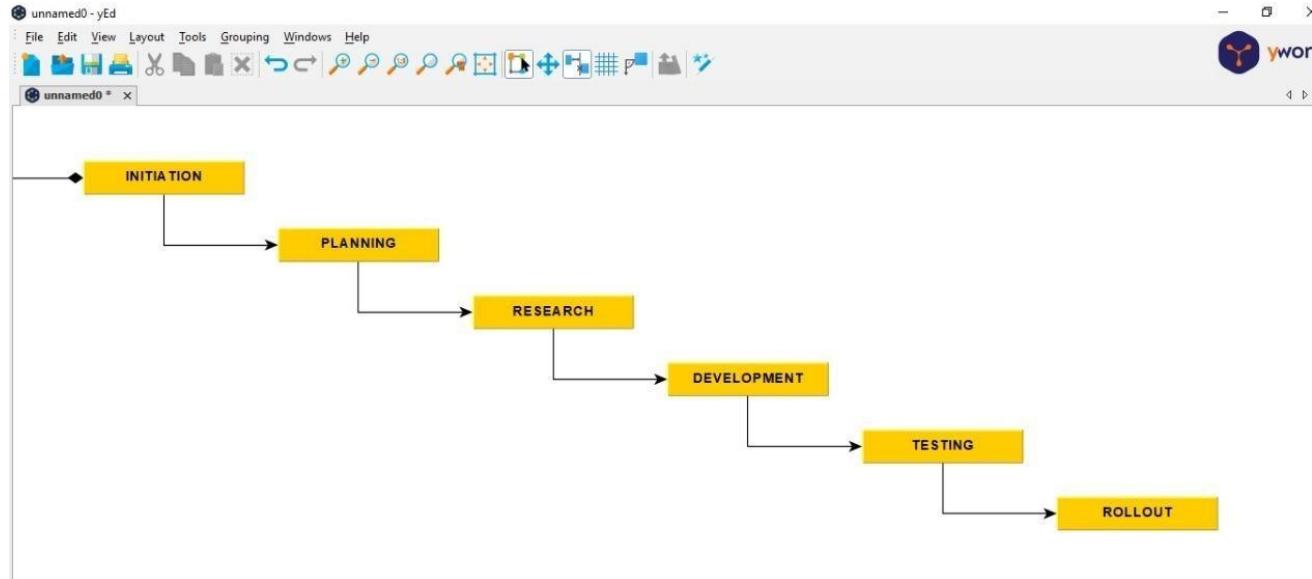
Going ahead, we can also let the companies modify the format of the SRS Document by including/excluding sections as per their requirements. ER Diagram which would require ML Algorithms to comprehend the overall structure of the relational schema could also be included in the future versions. The future version can be further enhanced by including all the other documents that are part of software engineering.

2.1. WORK BREAKDOWN STRUCTURE:



2.2. PROCESS MODEL:

We are using the WATERFALL MODEL.



Why the model here?

1. Requirements are clearly understood.
2. There are simple and have well known criteria.
3. At the outset, we know all the specifications.
4. It is difficult to run processes in parallel.
5. No daily updates are needed.

3. TECHNICAL SPECIFICATION:

3.1 System Features

3.1.1 Logging in

3.1.1.1 Introduction

The SRS Document Generator shall allow only authenticated users to log in to the system.

The user would have to enter a valid username and password to get permission.

3.1.1.2 Functional Requirements

Purpose: Logging in to the system.

Input: Username and Password.

Processing: If the credentials are valid, then getting permission to enter the system, if not, then permission is denied to the user.

Output: Login being granted to the user for valid credentials.

3.1.1.3 Stimulus Response:

User Actions	System Actions
(1) Inputs User ID	Check the Unique User Id
(2) Input Password	Check the password for the unique ID
(3) Press Login	Open SRS generator page
.	If incorrect password tells the user to try again

3.1.2 Entering Requirements:

3.1.2.1 Introduction:

The project requirement details needed to be filled by the user to generate therequired SRS document.

3.1.2.2 Functional Requirements:

Purpose: Gathering Requirements and generating a document of it according tothe customer.

Input: Requirement Fields (Enter Details, Enter definitions, Performance Requirements, etc.)

Processing: Collecting requirements and then processing information gathered at the backend.

Output: Will provide an SRS document along with data flow and state transitiondiagrams.

3.1.2.3 Stimulus Response:

User Actions	System Actions
(1) Generate	Redirected to the SRS requirement filling form.
(2) Enter Info	Input for different requirements will be taken.
(3) Generate SRS	SRS documents will be processed to be formed and, in the backend, and the user will be redirected to the output.

3.2 *Performance Requirements:*

The following tables list the performance requirements of the SRS DocumentGenerator.

Table of Performance Requirements

Performance Requirement	Description
New record entering capacity	This registration capacity of the SRS Document Generatorsystem will be depending on the cloud server space.
Software Runtime Errors	The SRS software will handle the runtime errorsconsistently and as gracefully as possible.

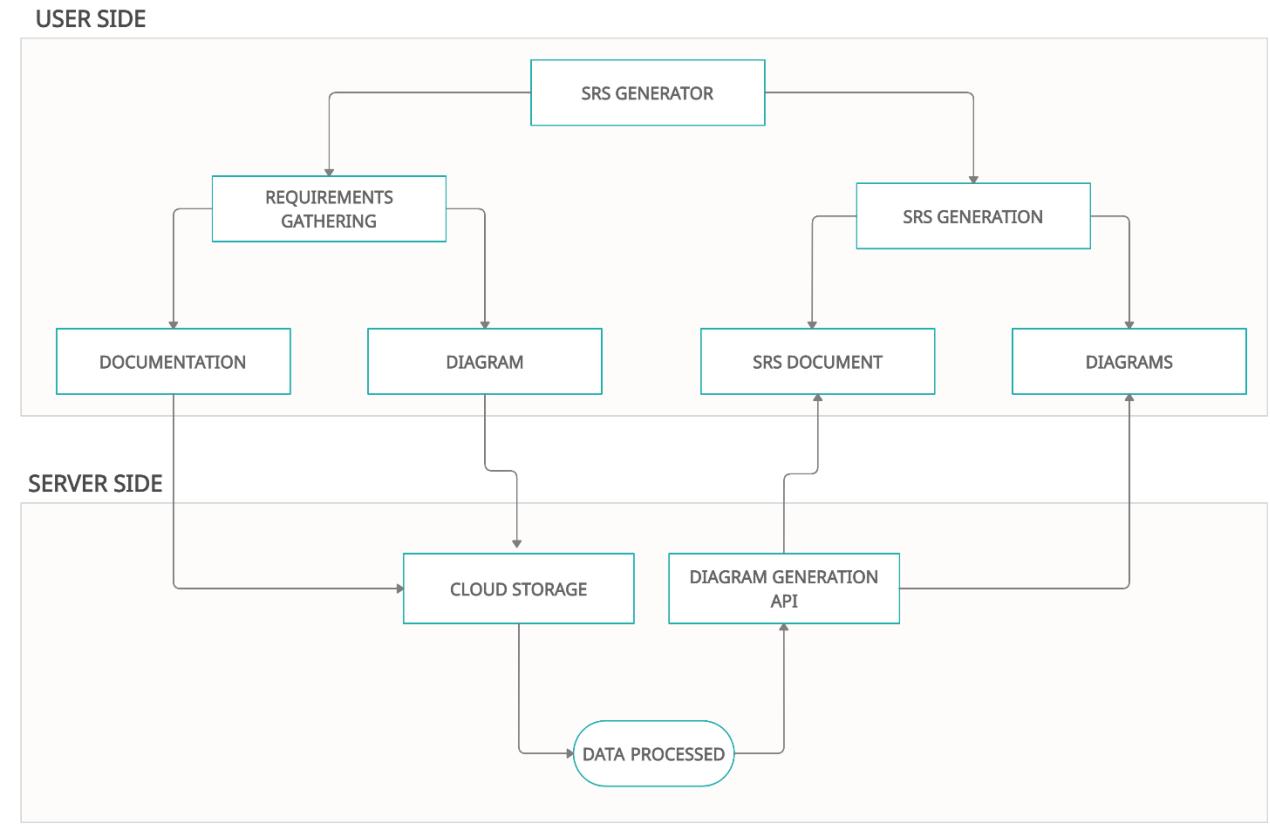
SOFTWARE REQUIREMENTS:

- Frontend
- JavaScript
- HTML
- CSS
- Backend
- NodeJs
- Database MongoDB

4. DESIGN APPROACH AND DETAILS:

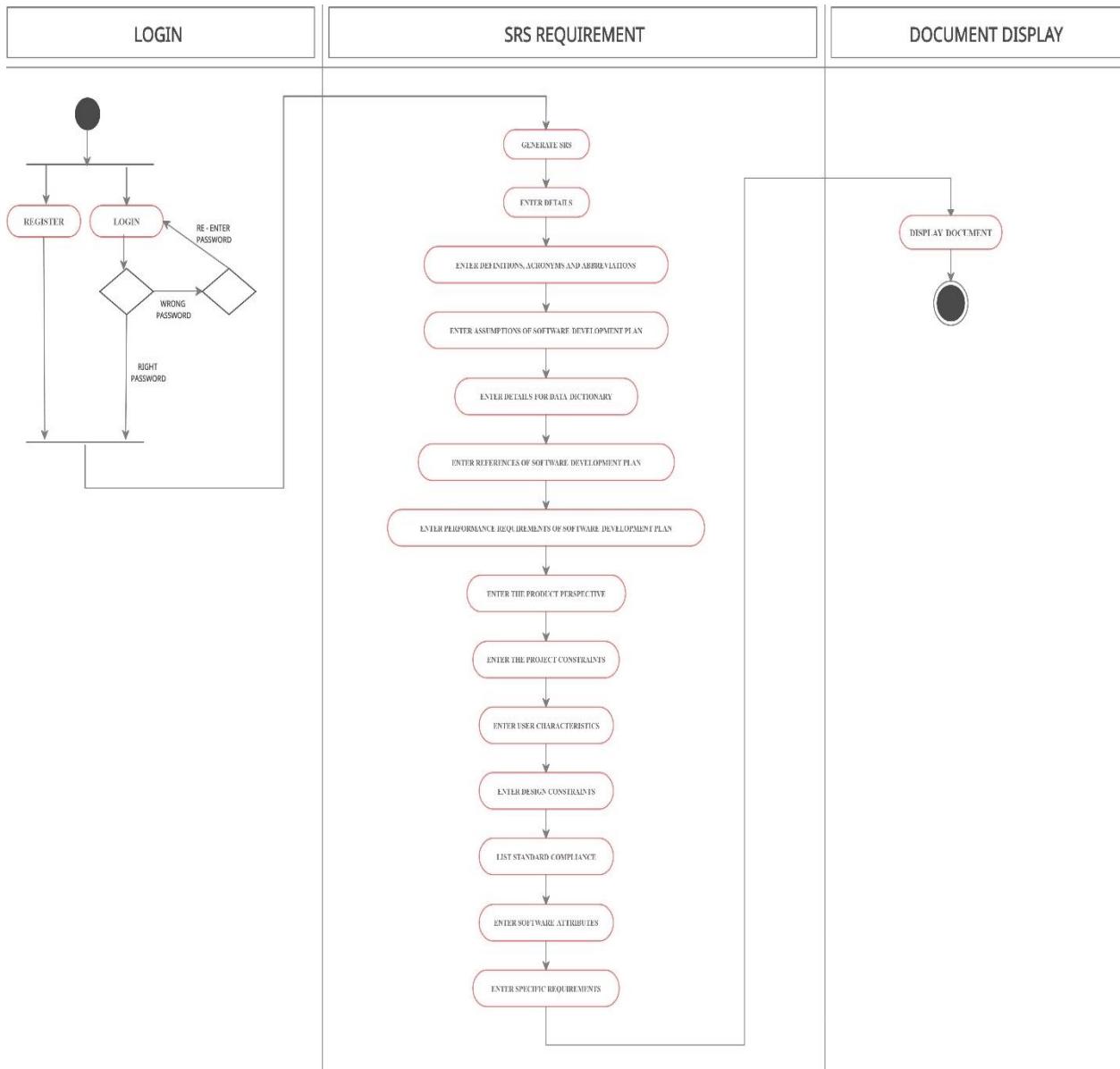
4.1. DESIGN APPROACH / MATERIALS & METHODS:

4.1.1. ARCHITECTURAL DIAGRAM:

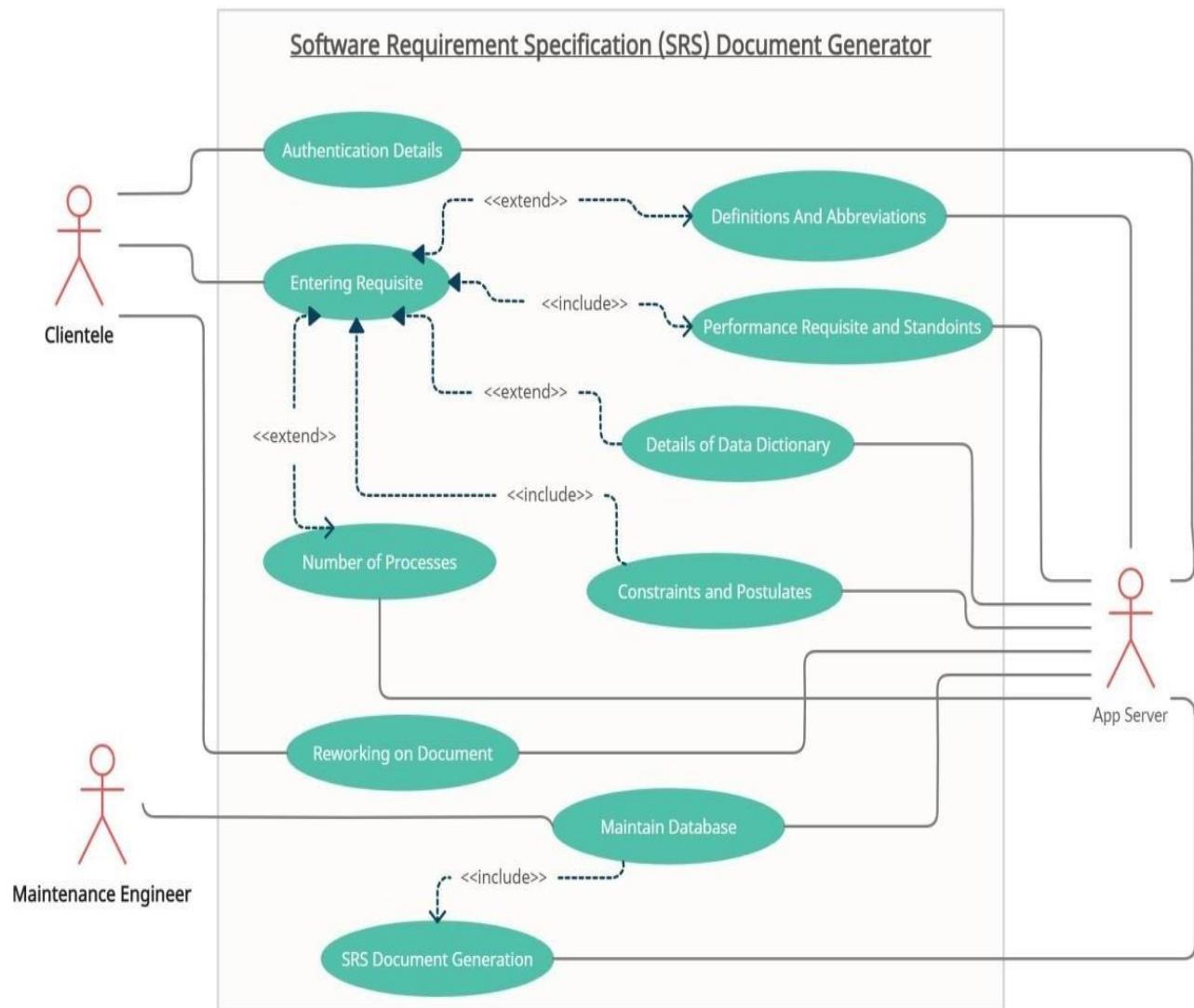


The above architectural diagram shows the graphical representation of a set of concepts that are part of our SRS Document Generator, including their principles, elements and components. The above architectural diagram consists of both the user and the server side. It shows how the infused fields OS software requirements gets stored in a cloud storage and when SRS is generated how do we obtain a well-organized SRS Document with perfection along with it it also shows the Design Diagram related to the Software Project (i.e., Data Flow Diagram and State Transition Diagram).

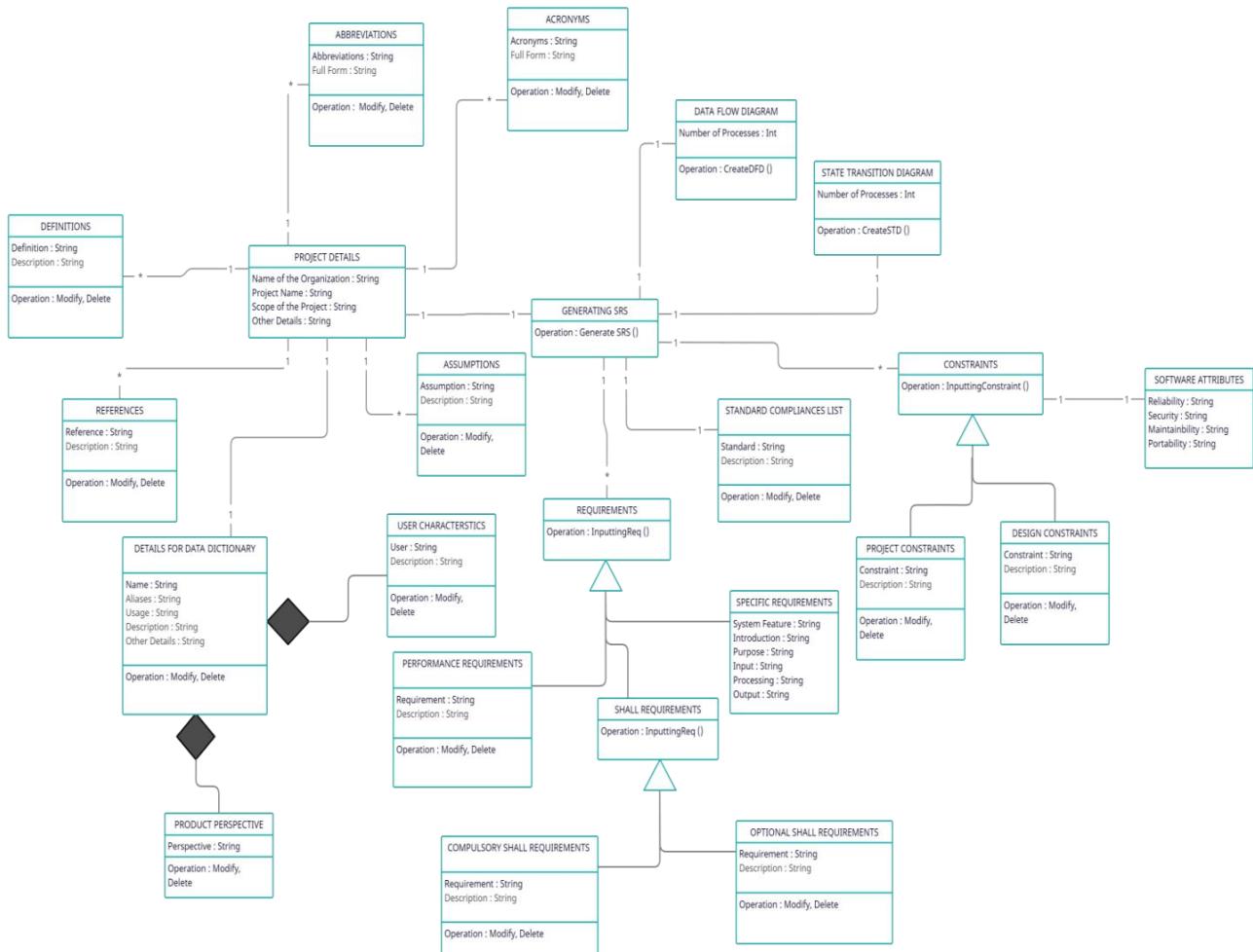
4.1.2. SWIMLANE ACTIVITY DIAGRAM:



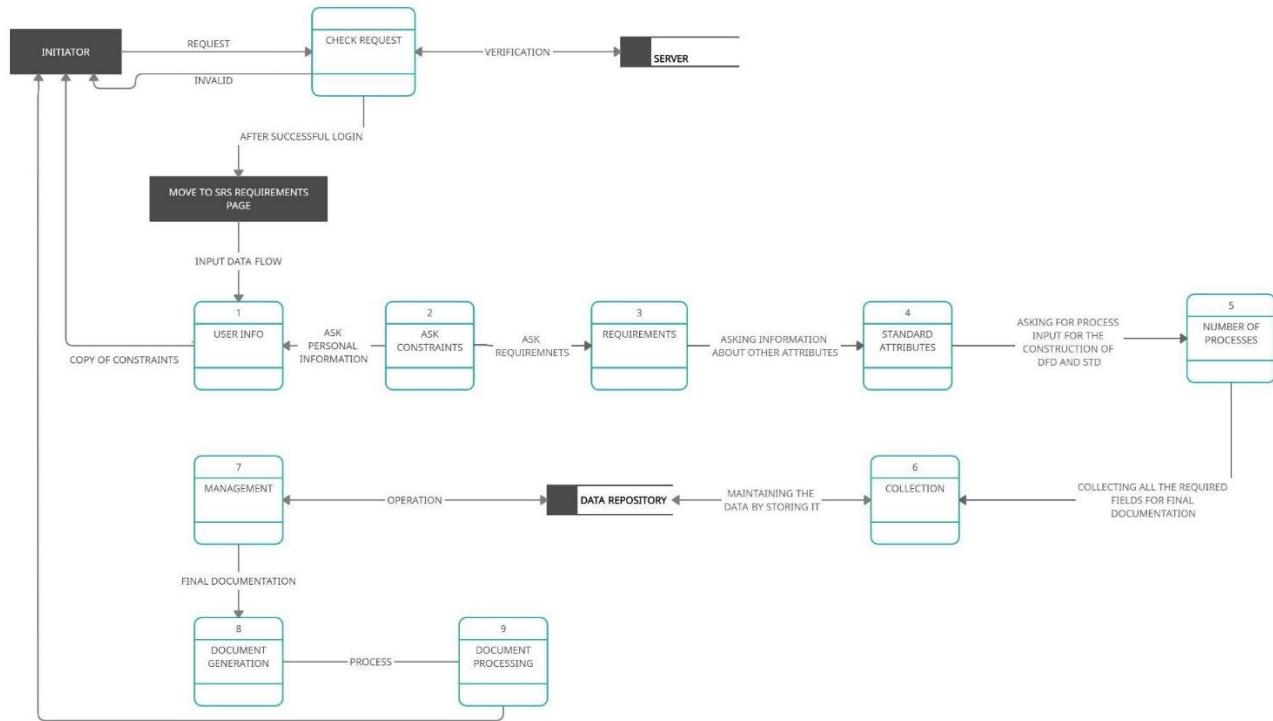
4.1.3. USE CASE DIAGRAM:



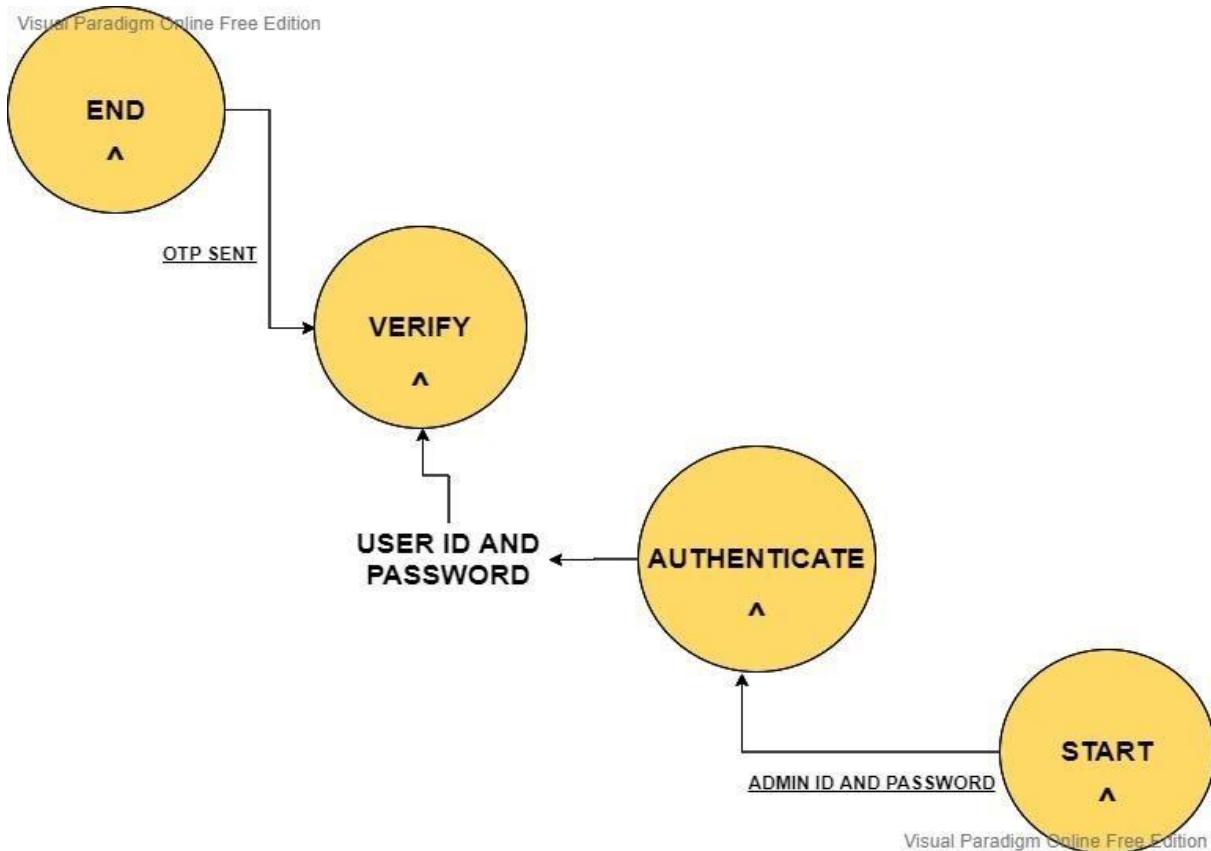
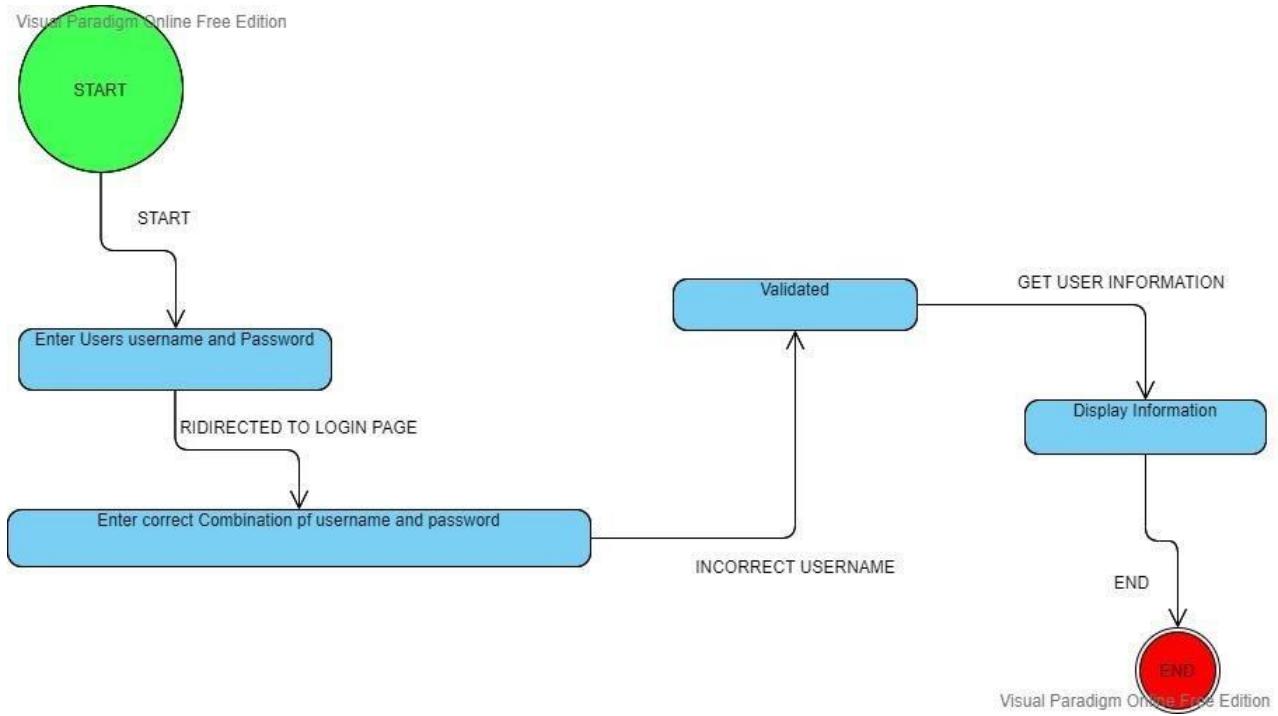
4.1.4. CLASS DIAGRAM:



4.1.5. DATA FLOW DIAGRAM:



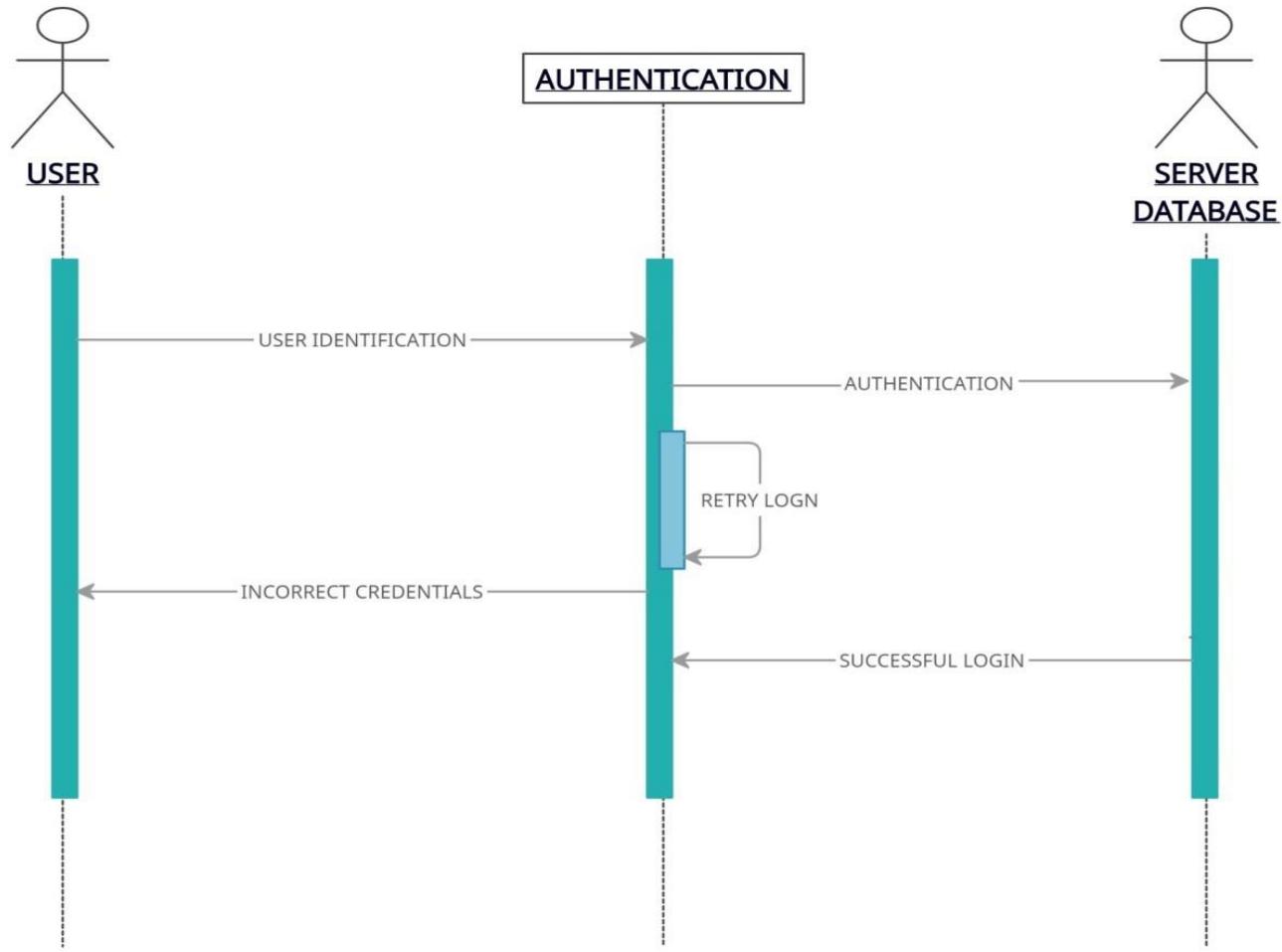
4.1.6. STATE TRANSITION DIAGRAM:



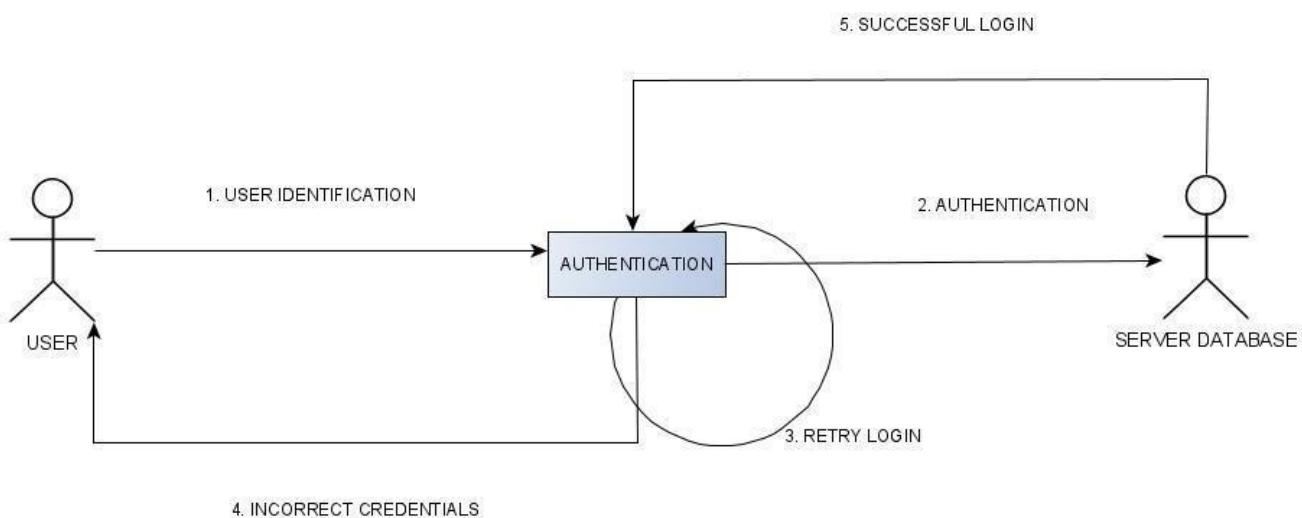
4.1.7. SEQUENCE AND COLLABORATION DIAGRAM:

4.1.7.1. AUTHENTICATION DETAILS:

SEQUENCE DIAGRAM:

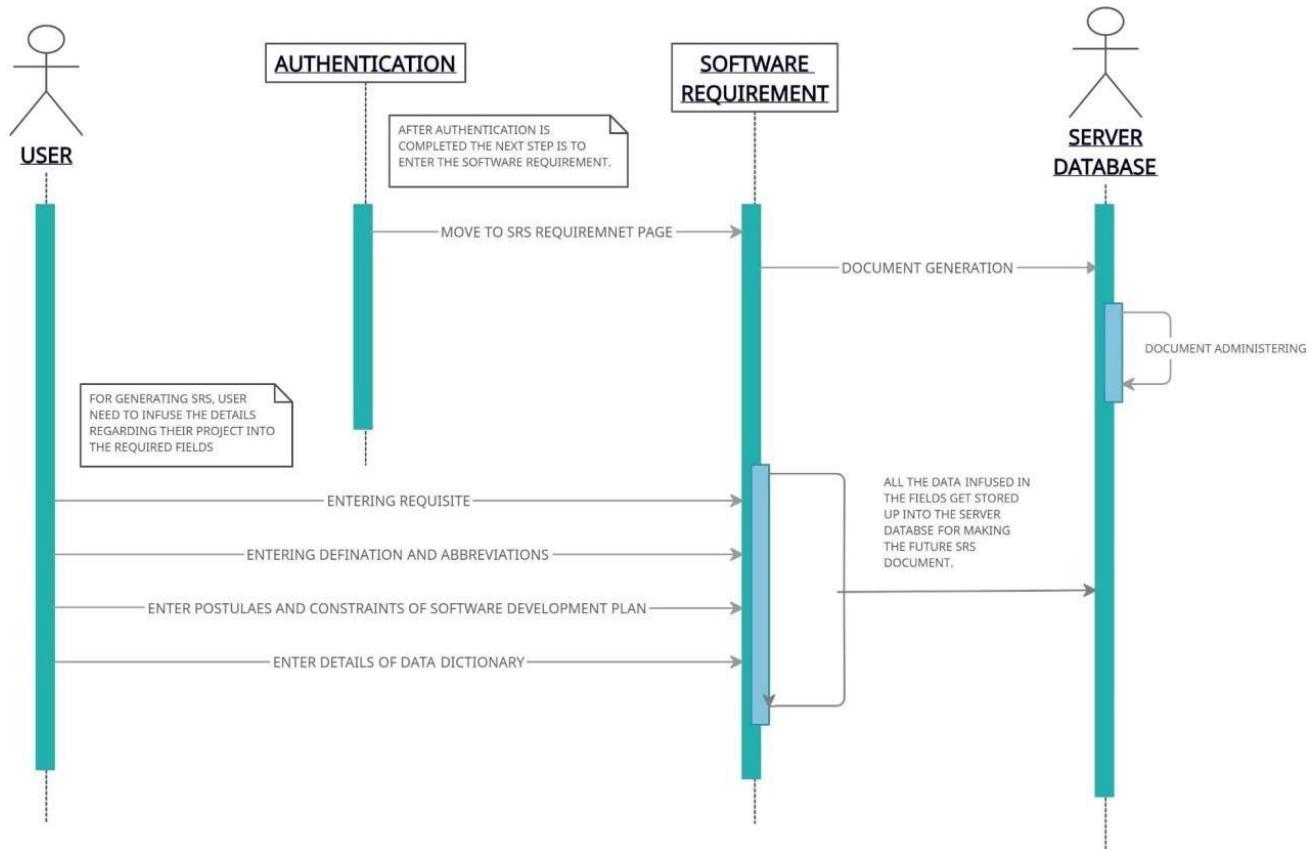


COLLABORATION DIAGRAM:

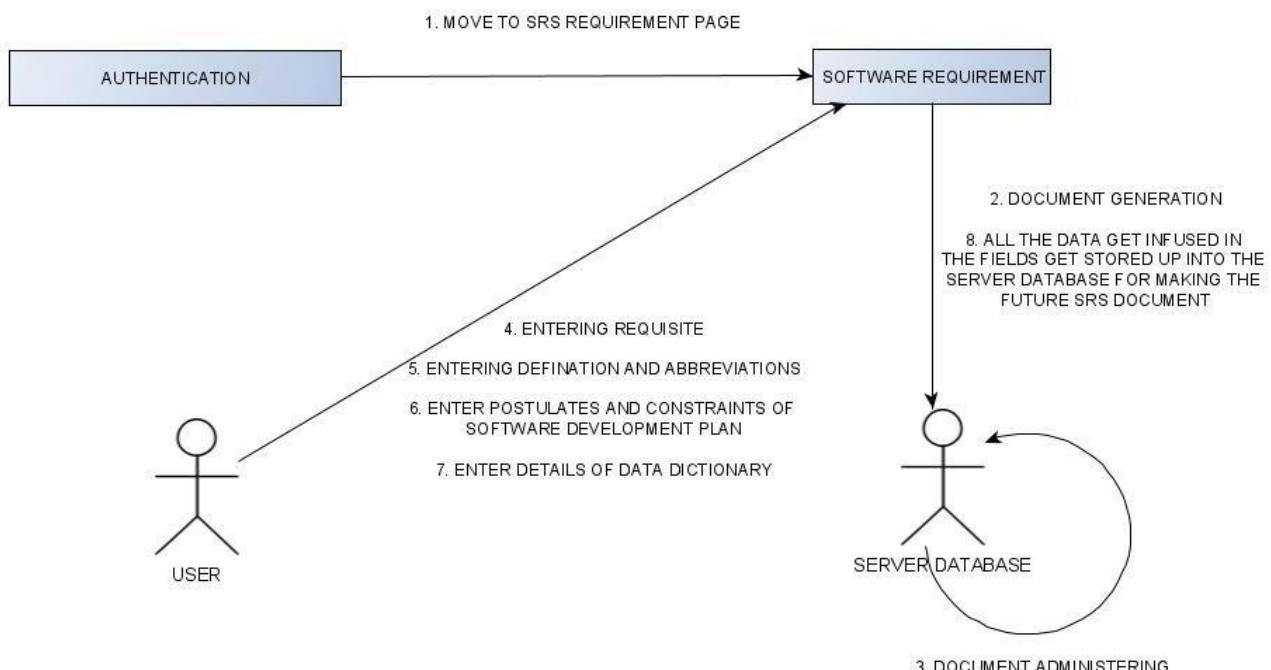


4.1.7.2. SRS REQUIREMENT:

SEQUENCE DIAGRAM:

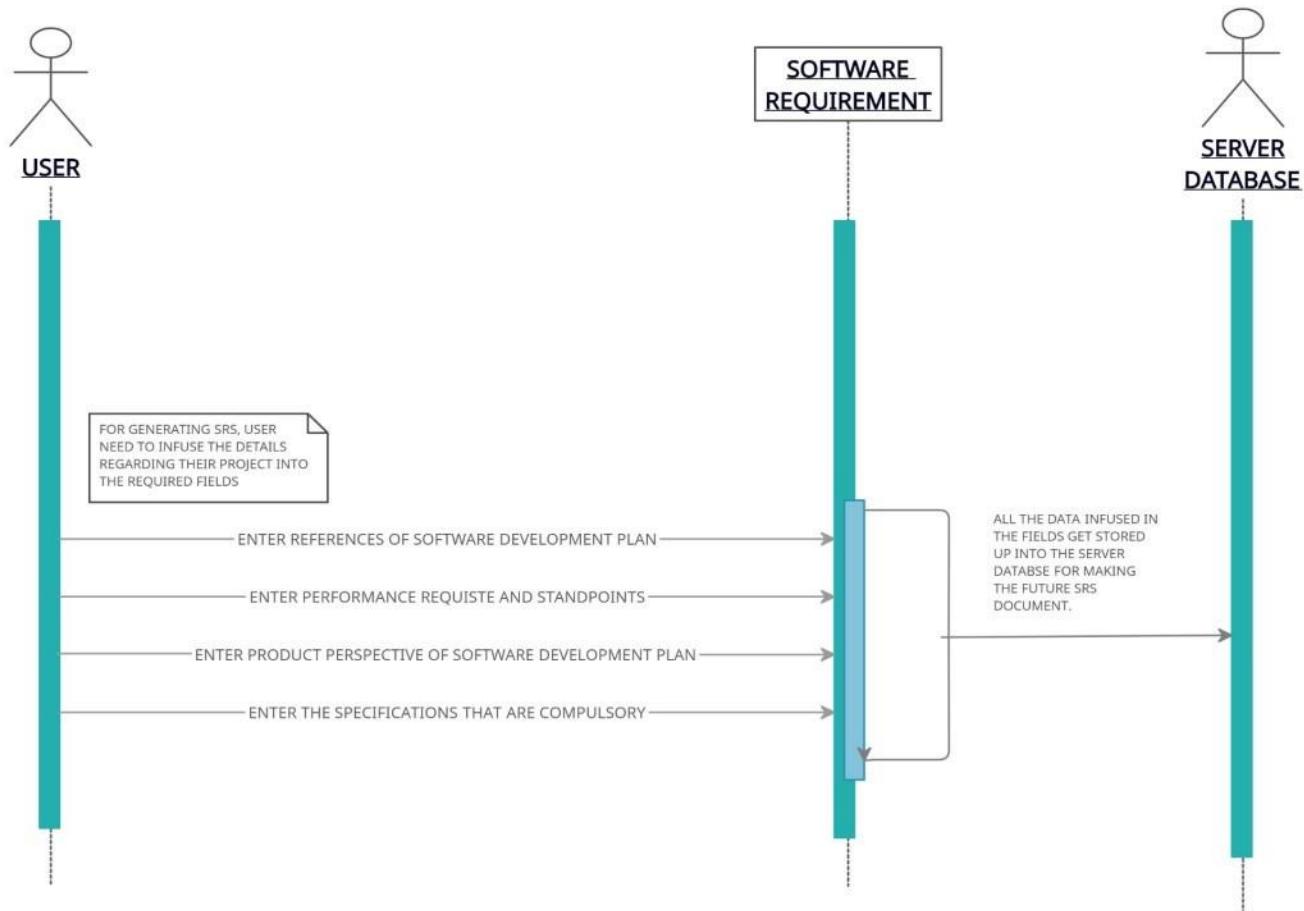


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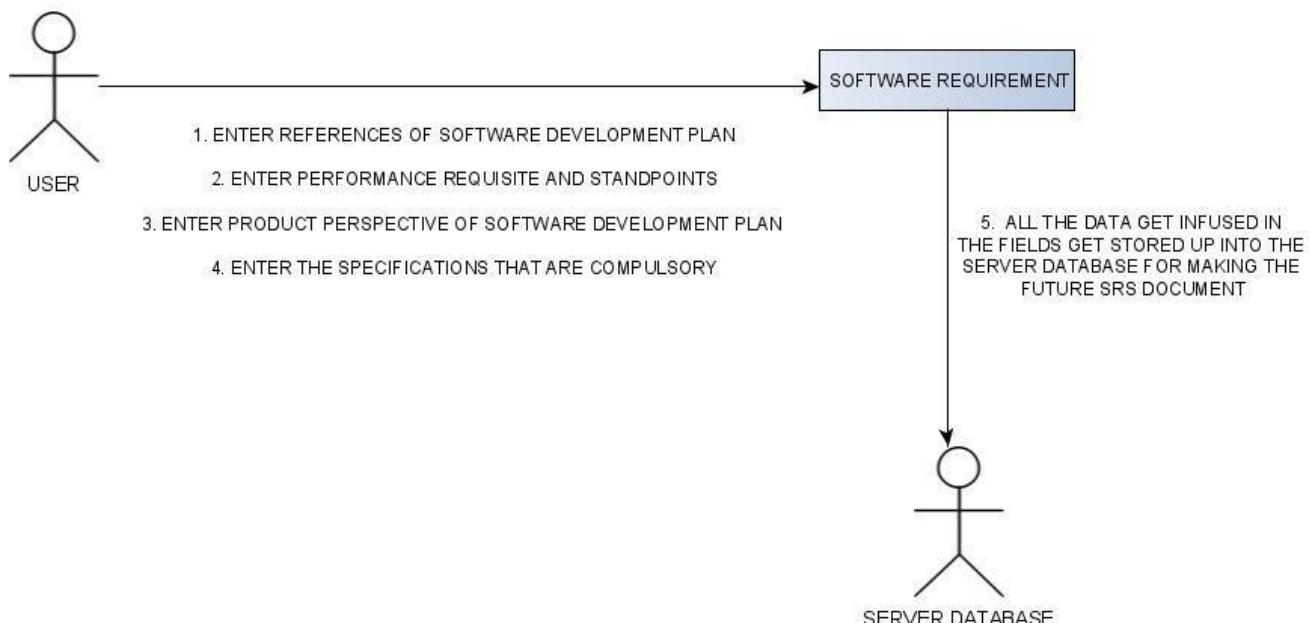


4.1.7.3. SOFTWARE DEVELOPMENT PLAN:

SEQUENCE DIAGRAM:

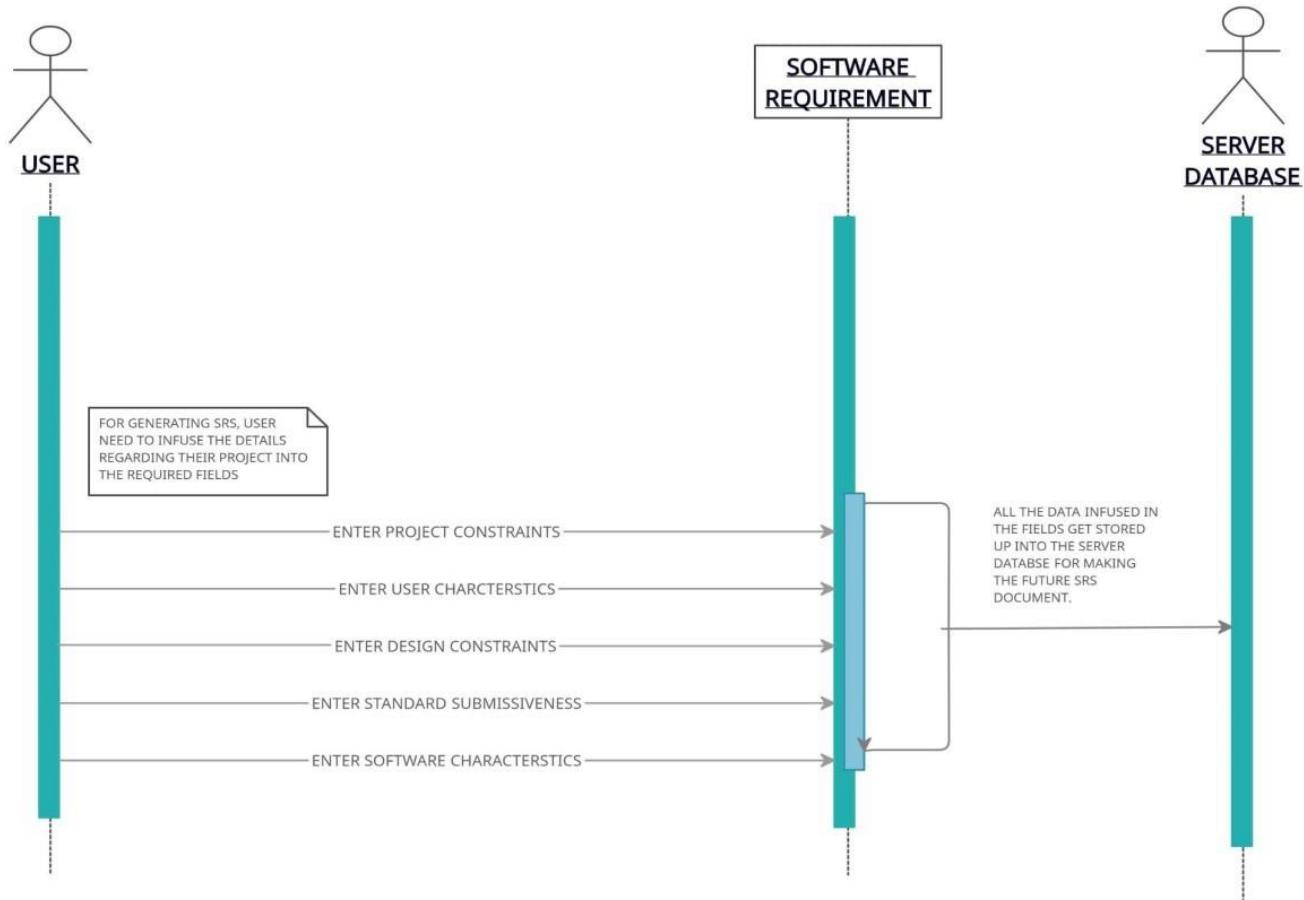


COLLABORATION DIAGRAM:

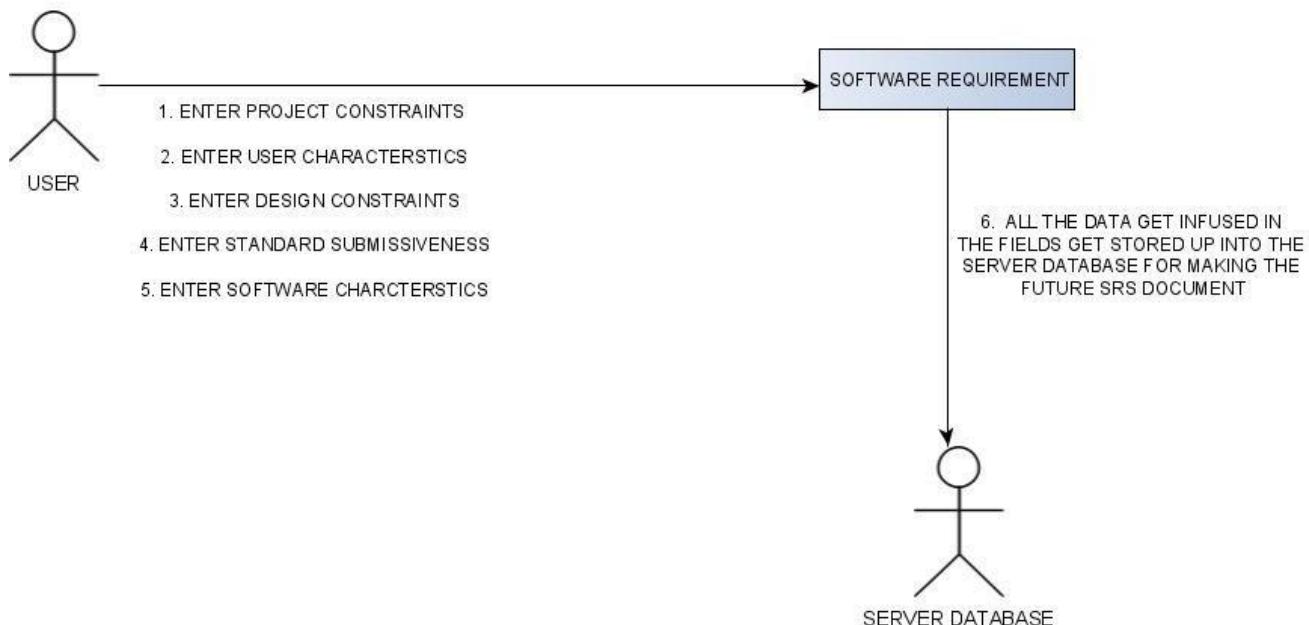


4.1.7.4. PROJECT AND DESIGN CONSTRAINTS:

SEQUENCE DIAGRAM:

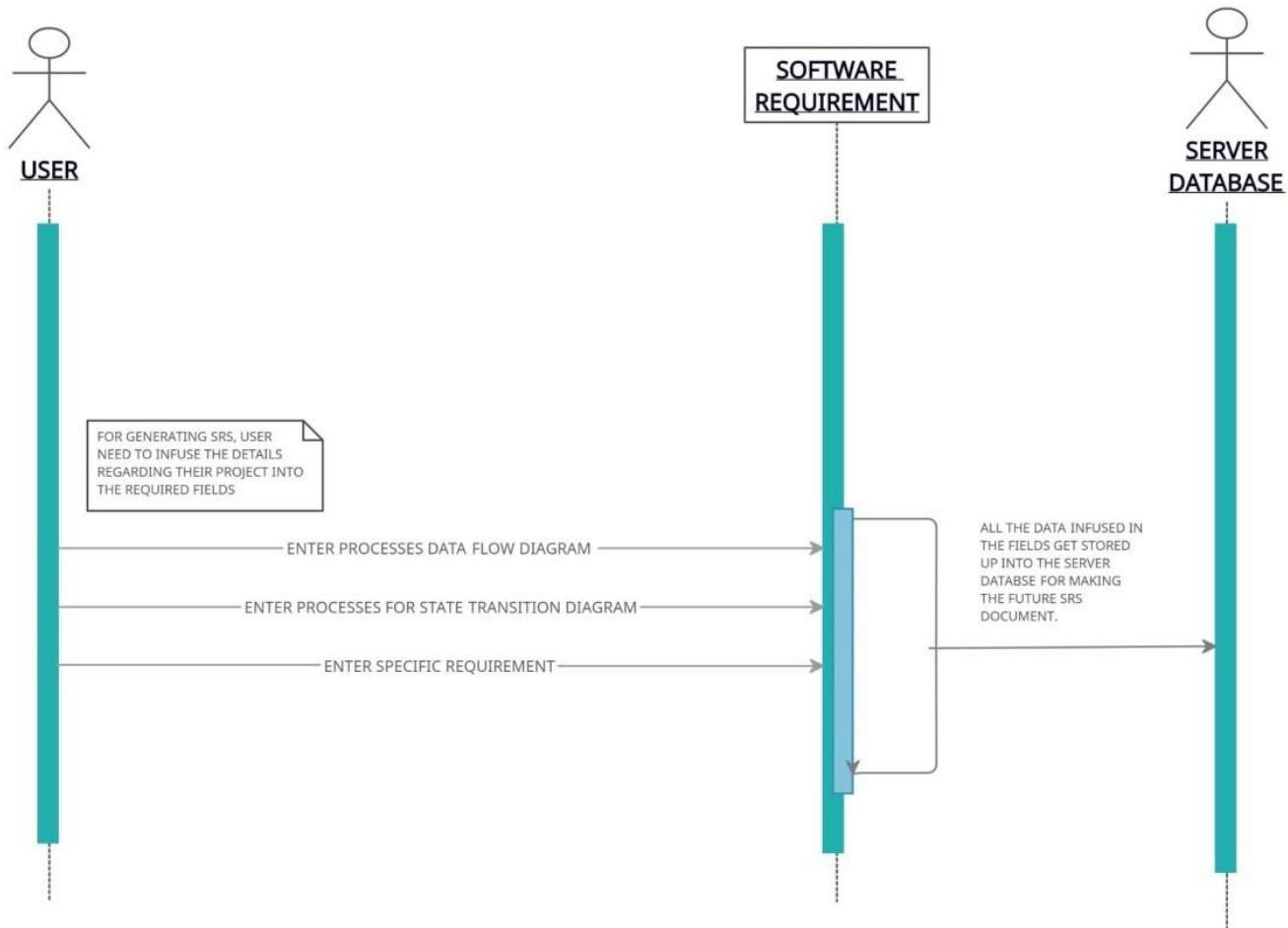


COLLABORATION DIAGRAM:

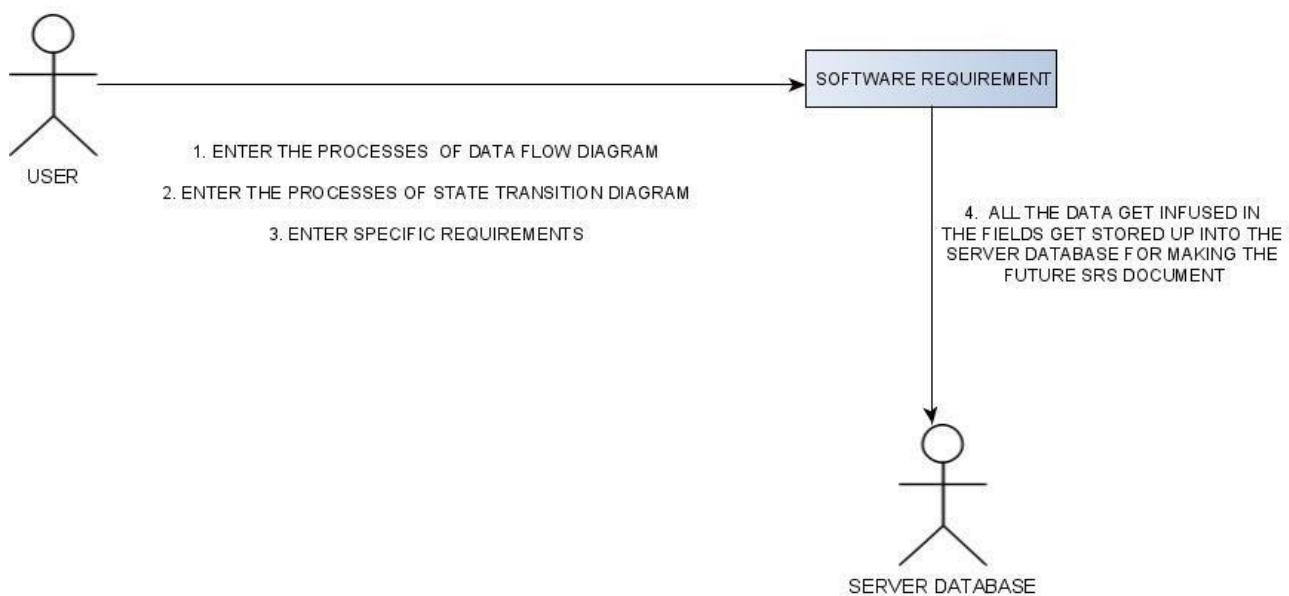


4.1.7.5. GENERATION AND DATA FLOW AND STATE TRANSITION:

SEQUENCE DIAGRAM:

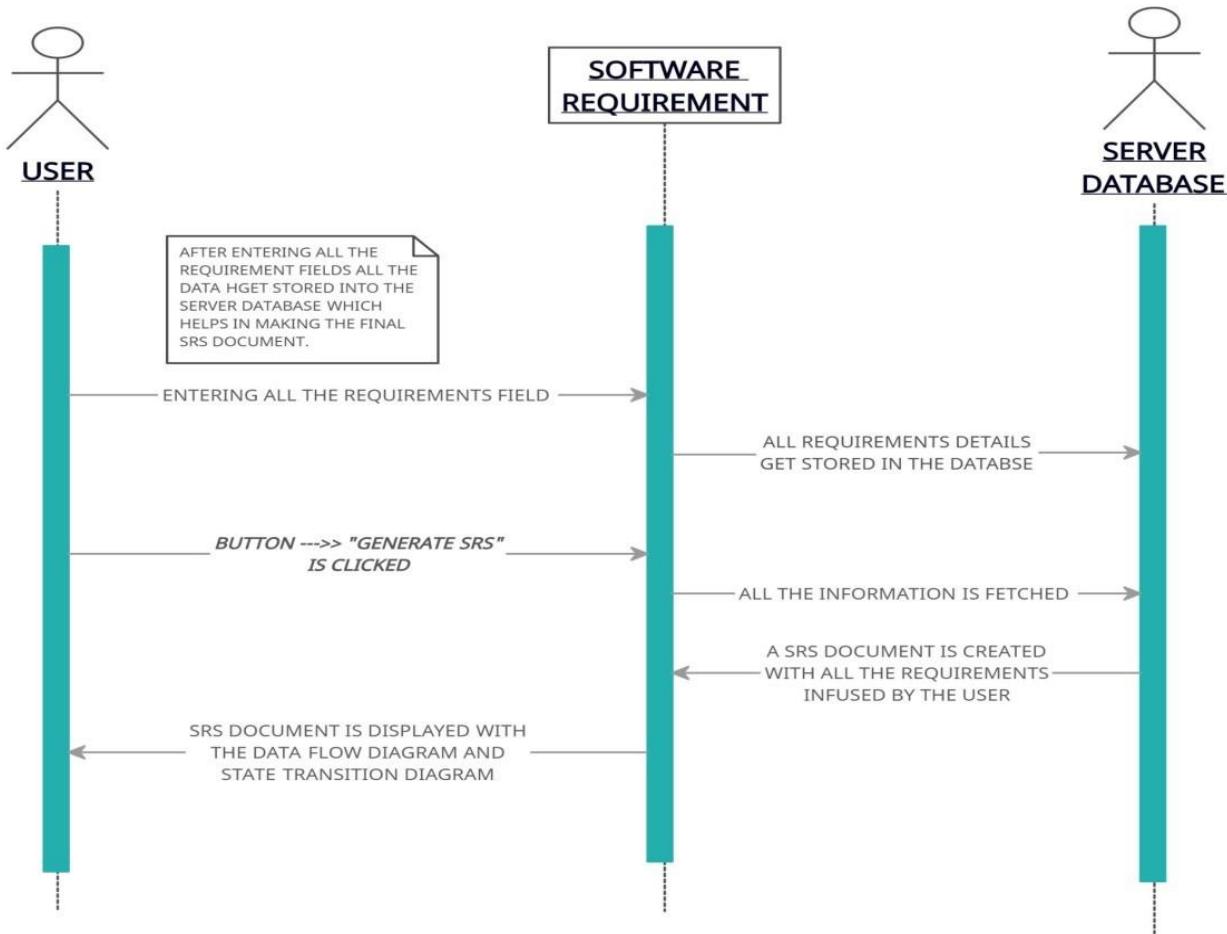


COLLABORATION DIAGRAM:

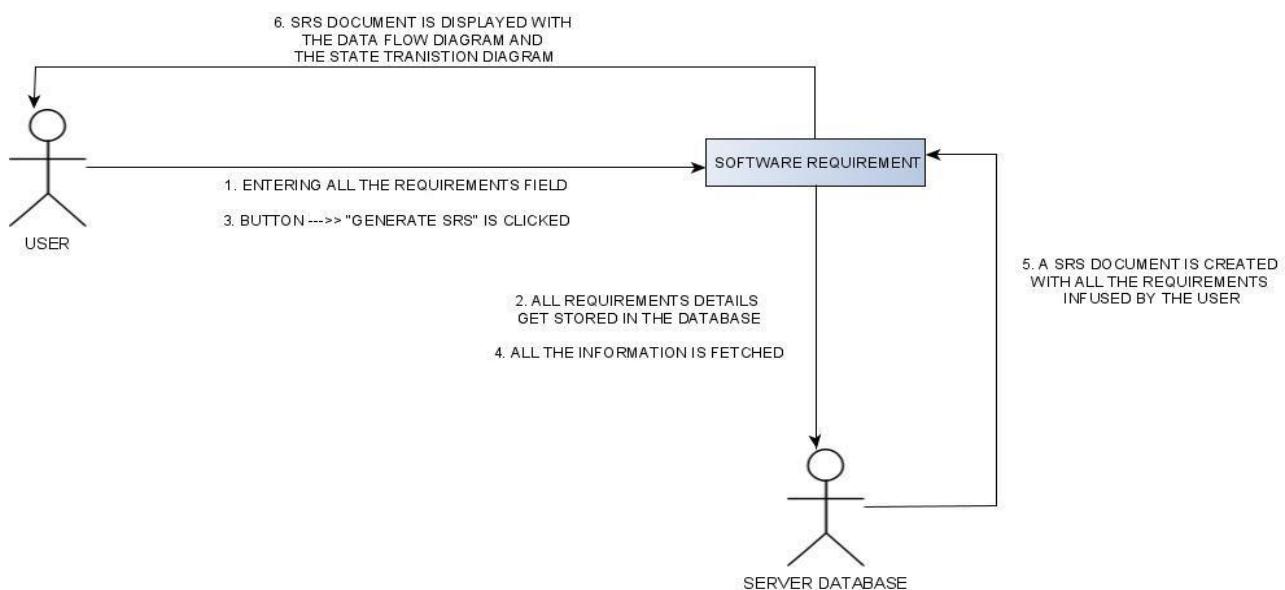


4.1.7.6. PROCESSING REQUIREMENT FOR DOCUMENT GENERATION:

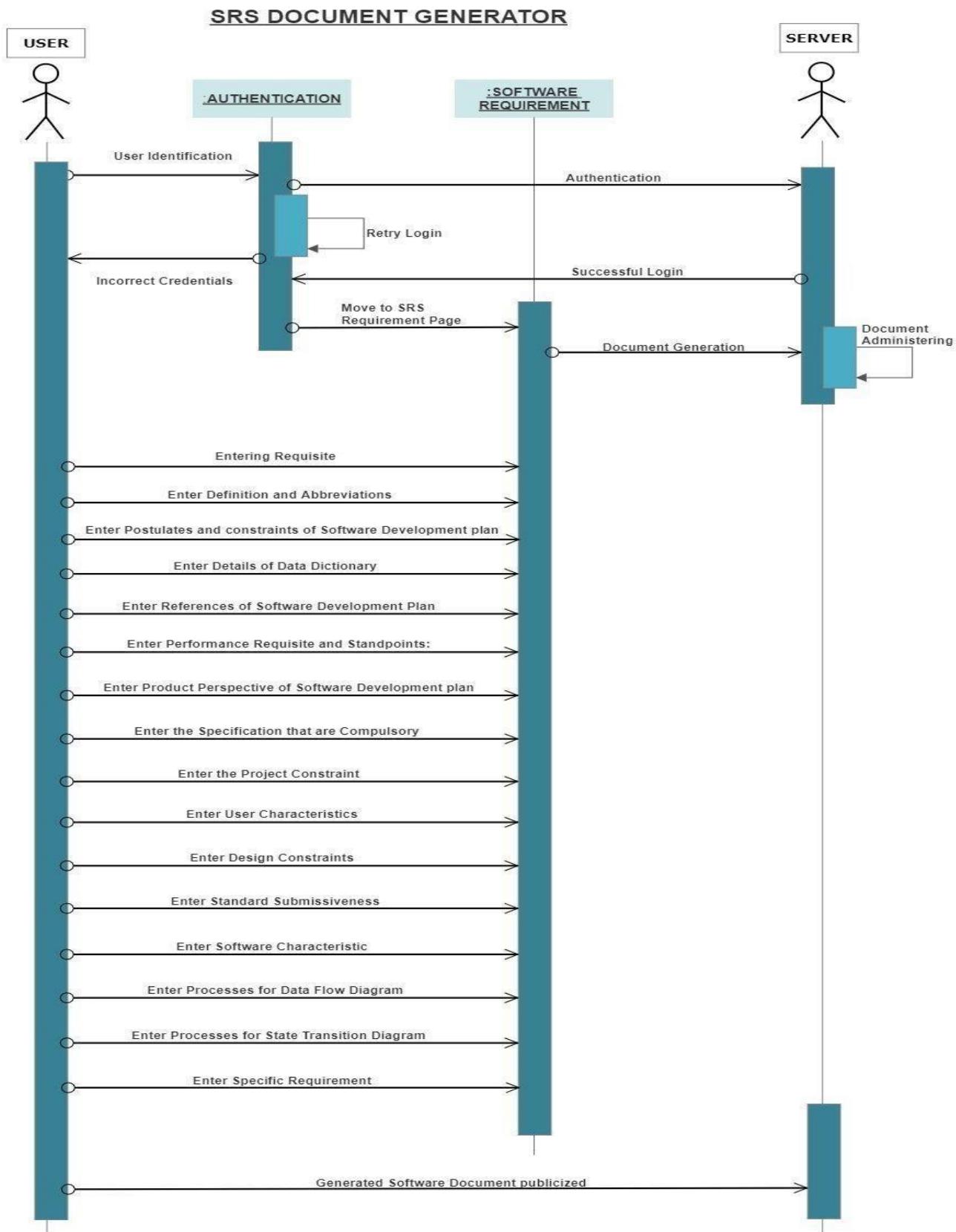
SEQUENCE DIAGRAM:



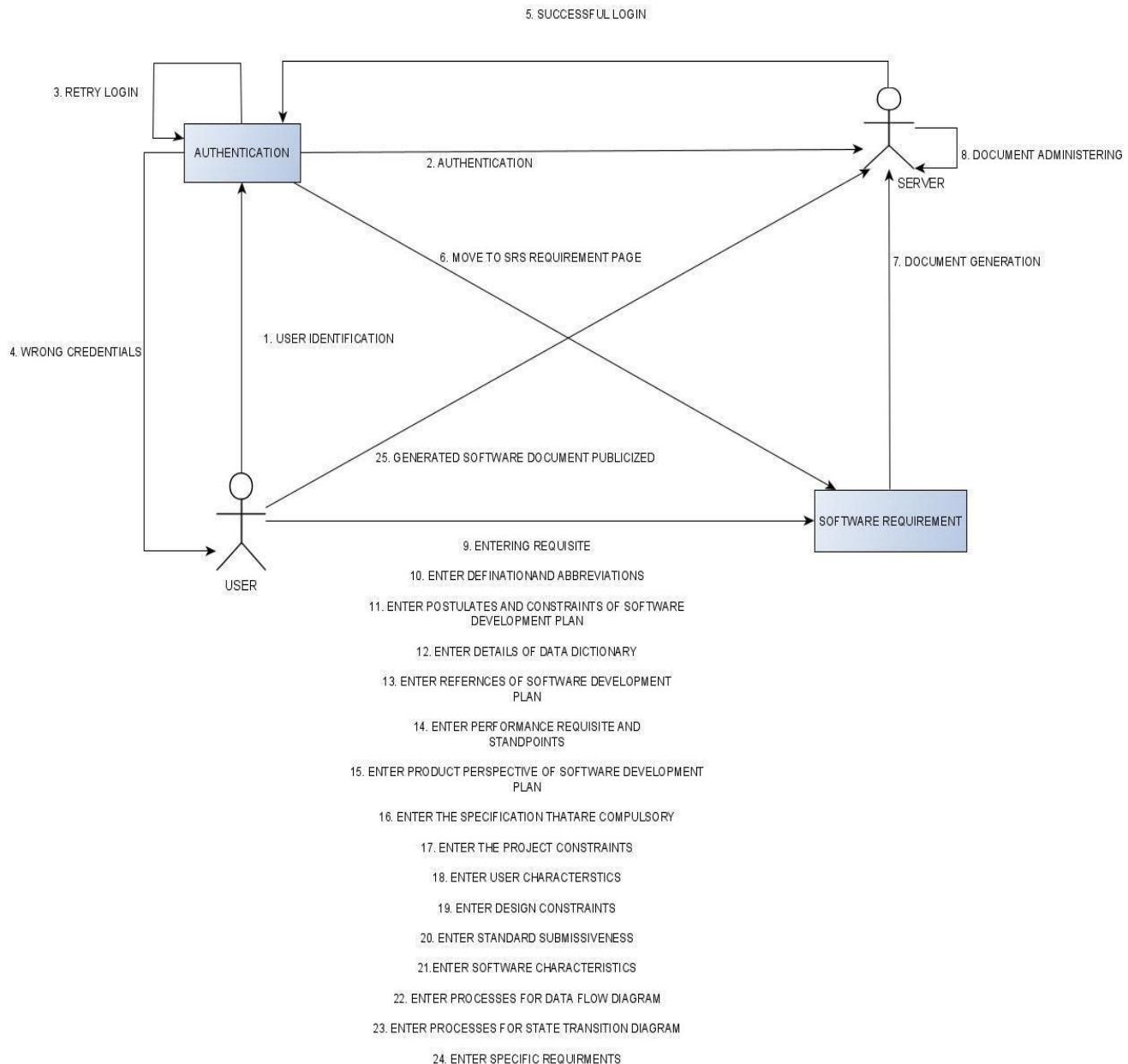
COLLABORATION DIAGRAM:



FULL SEQUENCE DIAGRAM:



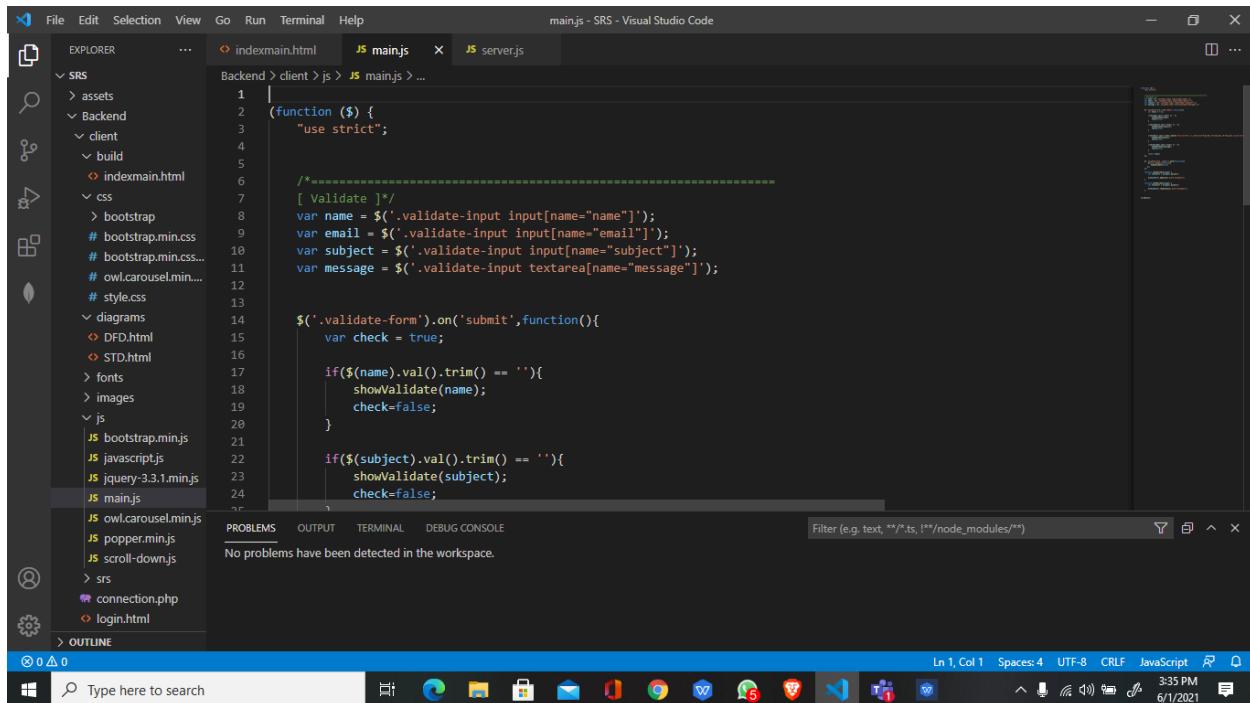
FULL COLLABORATION DIAGRAM:



4.2. CODES AND STANDARDS:

4.2.1. To store the data received by the server through POST method in JSON format to match the structure of the database.

```
router.post('/start', async (req,res) => {  
  
    const data = new Data(req.body)  
  
    try {  
  
        const value = await data.save()  
  
        res.status(201).send(value)  
  
    } catch (e) {  
  
        res.send(400).send()  
  
    })})
```



```
File Edit Selection View Go Run Terminal Help main.js - SRS - Visual Studio Code  
EXPLORER indexmain.html JS main.js X JS server.js  
Backend > client > js > JS main.js > ...  
1 |  
2 |     (function ($) {  
3 |         "use strict";  
4 |  
5 |         /*  
6 |         [ Validate ] */  
7 |         var name = $('.validate-input input[name="name"]');  
8 |         var email = $('.validate-input input[name="email"]');  
9 |         var subject = $('.validate-input input[name="subject"]');  
10 |        var message = $('.validate-input textarea[name="message"]');  
11 |  
12 |        $('.validate-form').on('submit',function(){  
13 |            var check = true;  
14 |  
15 |            if($('.name').val().trim() == ''){  
16 |                showValidate(name);  
17 |                check=false;  
18 |            }  
19 |  
20 |            if($('.subject').val().trim() == ''){  
21 |                showValidate(subject);  
22 |                check=false;  
23 |            }  
24 |        });  
25 |    }  
26 |  
27 |    if($('.subject').val().trim() == ''){  
28 |        showValidate(subject);  
29 |        check=false;  
30 |    }  
31 |  
32 |    if($('.message').val().trim() == ''){  
33 |        showValidate(message);  
34 |        check=false;  
35 |    }  
36 |  
37 |    if($('.check').is(':checked') == false){  
38 |        check=false;  
39 |    }  
40 |  
41 |    if(check){  
42 |        $.ajax({  
43 |            type: "POST",  
44 |            url: "http://localhost:3001/api/submit",  
45 |            data: {  
46 |                name: name.val(),  
47 |                email: email.val(),  
48 |                subject: subject.val(),  
49 |                message: message.val()  
50 |            },  
51 |            success: function(response){  
52 |                if(response.message == "Success"){  
53 |                    alert("Your message has been sent");  
54 |                }  
55 |            },  
56 |            error: function(error){  
57 |                console.log(error);  
58 |            }  
59 |        });  
60 |    }  
61 |}  
62 |  
63 |  
64 |});  
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```

File Edit Selection View Go Run Terminal Help main.js - SRS - Visual Studio Code

EXPLORER ... indexmain.html JS main.js X JS server.js

SRS Backend > client > js > JS main.js ...

```
Backend > client > js > JS main.js ...
43     $(this).focus(function(){
44         hideValidate(this);
45     });
46 });
47
48     function showValidate(input) {
49         var thisAlert = $(input).parent();
50
51         $(thisAlert).addClass('alert-validate');
52     }
53
54     function hideValidate(input) {
55         var thisAlert = $(input).parent();
56
57         $(thisAlert).removeClass('alert-validate');
58     }
59
60 })(jQuery);
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE Filter (e.g. text, **/*, !**/node_modules/***)

No problems have been detected in the workspace.

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File Edit Selection View Go Run Terminal Help login.html - SRS - Visual Studio Code

EXPLORER ... indexmain.html DFD.html login.html

SRS Backend > client > login.html > html > head

```
<!DOCTYPE html>
<html lang="en">
    <head>
        <!-- Required meta tags -->
        <meta charset="utf-8">
        <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
        <link href="https://fonts.googleapis.com/css?family=Roboto:300,400&display=swap" rel="stylesheet">

        <link rel="stylesheet" href="fonts/icomoon/style.css">
        <link rel="stylesheet" href="css/owl.carousel.min.css">
        <!-- Bootstrap CSS -->
        <link rel="stylesheet" href="css/bootstrap.min.css">
        <!-- Style -->
        <link rel="stylesheet" href="css/style.css">
    </head>
    <body>
        <div class="d-lg-flex half">
            <div class="order-lg-2">
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: powershell

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PS C:\Software Project\SRS\]

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indexmain.html DFD.html login.html

Backend > client > login.html

```
48     <input type="checkbox" checked="checked" />
49     <div class="control__indicator"></div>
50   </label>
51
52   </div>
53
54   <h2>New to this? <a href="signup.html"> Sign up </a>!<h2><br>
55
56   <button class="button button3"> <a href = "build\indexmain.html" >Login</a></button>
57   <style>
58     .button {
59       background-color: #FF0000;
60       border: none;
61       color: white;
62       text-align: center;
63       text-decoration: none;
64       display: inline-block;
65       font-size: 16px;
66       margin: 4px 2px;
67       cursor: pointer;
68     }
69     .button3 {padding: 14px 60px;}
70   </style>
71
72   </form>
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

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File Edit Selection View Go Run Terminal Help

indexmain.html - SRS - Visual Studio Code

Backend > client > build > indexmain.html

```
1  <!DOCTYPE html>
2  <html lang="en">
3
4    <head>
5      <meta charset="utf-8">
6      <meta content="width=device-width, initial-scale=1.0" name="viewport">
7      <!-- Favicon -->
8      <link rel="icon" type="image/png" href=".../images/icons/favicon.ico"/> -->
9      <link rel="stylesheet" href=".../public/vendor/bootstrap/css/bootstrap.min.css">
10     <link rel="stylesheet" href=".../public/fonts/font-awesome-4.7.0/css/font-awesome.min.css">
11     <link rel="stylesheet" href=".../public/vendor/animate/animate.css">
12     <link rel="stylesheet" href=".../public/vendor/css-hamburgers/hamburgers.min.css">
13     <link rel="stylesheet" href=".../public/vendor/select2/select2.min.css">
14     <link rel="stylesheet" href=".../public/css/util.css">
15     <link rel="stylesheet" href=".../public/css/main.css">
16
17   <title>SRS Document Generator</title>
18   <meta content="" name="description">
19   <meta content="" name="keywords">
20
21   <!-- Favicons -->
22   <link href=".../public/assets/img/logo.jpg" rel="icon">
23   <link href=".../public/assets/img/apple-touch-icon.png" rel="apple-touch-icon">
24
25   <!-- Google Fonts -->
26   <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,400,400i,500,500i,700,700i&ampampdisplay=block" rel="stylesheet">
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

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PS C:\Software Project\SRS>

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indexmain.html - SRS - Visual Studio Code

Backend > client > build > indexmain.html > html > body > div.contact1 > div.container-contact1 > div#specific.row.justify-content-center > div.container-contact1-form-btr

```
<div class="row justify-content-center" id="user">
    <span class="contact1-form-title">
        <span style="color: #white">nnnnnnnn</span>Enter User Characteristics <span style="color: #white">nnnnnnnn</span>
    </span>
</div>

<div class="col-md-6">
    <div class="wrap-input1 validate-input" data-validate = "User is required">
        <input class="input1" type="text" name="name" placeholder="Enter User" id="user1">
        <span class="shadow-input1"></span>
    </div>
</div>

<div class="col-md-6">
    <div class="wrap-input1 validate-input" data-validate = "Description is required">
        <input class="input1" type="text" name="name" placeholder="Enter Description" id="desc1">
        <span class="shadow-input1"></span>
    </div>
</div>

<div class="col-md-6">
    <div class="wrap-input1 validate-input" data-validate = "User is required">
        <input class="input1" type="text" name="name" placeholder="Enter User" id="user2">
        <span class="shadow-input1"></span>
    </div>
</div>
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

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PS C:\Software Project\SRS> []

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indexmain.html - SRS - Visual Studio Code

Backend > client > build > indexmain.html > html > body > div.contact1 > div.container-contact1 > div#specific.row.justify-content-center > div.container-contact1-form-btr

```
</div>

<div class="row justify-content-center" id="std">
    <span class="contact1-form-title">
        <span style="color: #white">nnnnnnnn</span>Enter Processes for State Transition Diagram <span style="color: #white">nnnnnnnn</span>
    </span>
</div>

<div class="text-center col-lg-12">
    <label id="lblNoOfRec"> Enter No. of Transitions </label>
    <input class="input1 offset-lg-4 col-lg-4" name="message" id="txtNoOfRecstd" type="text" value="0" style="width: 100px; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;">
    <div class="container-contact1-form-btn" style="text-align: center; margin-top: 10px; position: relative; width: 100px; height: 40px; border: 1px solid #ccc; border-radius: 5px; background-color: #f0f0f0; color: #007bff; font-size: 14px; font-weight: bold; padding: 0 10px; display: flex; align-items: center; justify-content: center; transition: all 0.3s ease; z-index: 1; border: none; outline: none; cursor: pointer;">
        <button class="contact1-form-btn col-lg-2" onclick="stddynamicload()" id="btnNoOfRecstd" style="border: none; background-color: inherit; color: inherit; font-size: inherit; font-weight: inherit; padding: 0; margin: 0; width: 100%; height: 100%; display: flex; align-items: center; justify-content: center; font-size: 14px; font-weight: bold; border: none; outline: none; cursor: pointer; z-index: 1; border: none; outline: none; cursor: pointer;">
            Create STD
            <i class="fa fa-angle-down" aria-hidden="true" style="font-size: 1em; margin-left: 5px; transition: all 0.3s ease; z-index: 1; border: none; outline: none; cursor: pointer;"></i>
        </button>
    </div>
</div>

<div class="col-md-4 stdtransition1" style="display: none; position: absolute; left: 0; top: 0; width: 100%; height: 100%; background-color: #f0f0f0; z-index: 0; border: 1px solid #ccc; border-radius: 5px; padding: 10px; border: none; outline: none; cursor: pointer;">
    <div class="wrap-input1 validate-input" data-validate = "Input is required">
        <input class="input1" type="text" name="name" placeholder="From" id="stdfrom1" style="width: 100%; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;">
        <span class="shadow-input1"></span>
    </div>
</div>
```

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PS C:\Software Project\SRS> []

Ln 1428, Col 53 Tab Size: 4 UTF-8 CRLF HTML R Q

3:32 PM 6/1/2021

```

<div class="wrap-input1 validate-input" data-validate = "Output is required">
    <input class="input1" type="text" name="name" placeholder="Enter Output" id="out3">
    <span class="shadow-input1"></span>
</div>
<div class="container-contact1-form-btn" style="text-align:center;">
    <a href="/mainsrs">
        <button class="contact1-form-btn col" onclick="storeSRS()"> <!--onclick="window.location.href='acronym.htm' -->
            <span>
                Generate SRS
                <i class="fas fa-check"></i>
            </span>
        </button>
    </a>
</div>

```

```

<div class="col-lg-3 col-md-6 footer-info">
    <a name = "Contact Us"></a>
    <p><h1>Contact Us</h1></p>
    <h3>SRS Document Generator</h3>
    <p>
        Vellore Institute Of Technology, Vellore<br><br>
        <strong>Phone:</strong> +91 8824726441<br>
        <strong>Email:</strong><a href="mailto:rishabh.nagar2019@vitstudent.ac.in"> support@srsgenerator.com<br></a>
    </p>
    <div class="social-links mt-3">
        <a href="#" class="twitter"><i class="bx bxl-twitter"></i></a>
        <a href="#" class="facebook"><i class="bx bxl-facebook"></i></a>
        <a href="#" class="instagram"><i class="bx bxl-instagram"></i></a>
        <a href="#" class="google-plus"><i class="bx bxl-skype"></i></a>
        <a href="#" class="linkedin"><i class="bx bxl-linkedin"></i></a>
    </div>
</div>
<div class="container">
    <div class="copyright">
        &copy; Copyright <strong><span>SRS Document Generator</span></strong>. All Rights Reserved
    </div>

```

4.2.2. To send the relevant data of the latest client back to the frontend through the GET method. This JSON API is used in the generation of the SRS document.

router.get('/srs', async (req,res) => {

```

try {

  const count = await Data.count()

  const client = await Data.find({})

  if(!client) {

    return res.status(404).send()

  }

  const constraint = []

  for (const con of client[count-1].constraints) {

    if(con.const != "") {

      constraint.push(con.const)

    }

  }

  const definition = []

  for (const def of client[count-1].definitions) {

    if(def.definition != "" && def.description != "") {

      definition.push([def.definition,def.description])

    }

  }

  const requirement = []

  for (const require of client[count-1].requirements) {

    if(require.req != "") {

      requirement.push(require.req)

    }

  }
}

```

```

const process = []

for (const proc of client[count-1].processes) {

    if(proc.system != "" && proc.intro != "" && proc.purpose != "" && proc.input != "" &&
proc.process != "" && proc.output != "") {

        process.push([proc.system,proc.intro,proc.purpose,proc.input,proc.process,proc.output])
    }
}

const user = []

for (const use of client[count-1].users) {

    if(use.user != "" && use.description != "") {

        user.push([use.user,use.description])
    }
}

const refer = []

for (const ref of client[count-1].references) {

    if(ref.reference != "" && ref.description != "") {

        refer.push([ref.reference,ref.description])
    }
}

const dict = []

for (const dic of client[count-1].dictionary){

    if(dic.name != "" && dic.aliase != "" && dic.used != "" && dic.description != "" && dic.info
!= ""){

        dict.push([dic.name,dic.aliase,dic.used,dic.description,dic.info])
    }
}

```

```

        }

    }

const assumption = []

for (const assump of client[count-1].assumptions) {

    if (assump.assumption != "" && assump.description != "") {

        assumption.push([assump.assumption,assump.description])

    }

}

const perform = []

for (const perf of client[count-1].performance){

    if (perf.requirement != "" && perf.description != "") {

        perform.push([perf.requirement,perf.description])

    }

}

const design = []

for (const des of client[count-1].designconstraint) {

    if (des.constraint != "" && des.description != "") {

        design.push([des.constraint,des.description])

    }

}

const stand = []

for (const stan of client[count-1].standards) {

    if(stan.standard != "" && stan.description != "") {

```

```
stand.push([stan.standard,stan.description])  
}  
}  
  
const dfd = []  
  
for (const pro of client[count-1].dfdprocesses){  
  
    if(pro.input != "" && pro.process != "" && pro.output != "") {  
  
        dfd.push([pro.input,pro.process,pro.output])  
    }  
}  
  
const orgName = client[count-1].organizationName  
  
const proName = client[count-1]. projectName  
  
const proScope = client[count-1]. projectScope  
  
const notProScope = client[count-1]. notProjectScope  
  
const pers = client[count-1].perspective  
  
const reliability = client[count-1].reliability  
  
const security = client[count-1].security  
  
const maintainability = client[count-1].maintainability  
  
const portability = client[count-1].portability  
  
  
const data = {  
    constraint,  
    orgName,  
    proName,  
    proScope,
```

```
notProScope,  
definition,  
refer,  
pers,  
requirement,  
process,  
user,  
dict,  
assumption,  
perform,  
design,  
stand,  
reliability,  
security,  
maintainability,  
portability,  
dfd  
}  
res.send(data)  
}
```

```

File Edit Selection View Go Run Terminal Help
File Explorer ... indexmain.html mainsrs.html JS server.js
Backend > JS server.js ...
1 const express = require('express')
2 const app = express()
3 require('./mongoose')
4 const port = process.env.PORT || 3000
5 // const Data = require('../models/data')
6 const dataRoute = require('../routes/data')
7 const bodyParser = require('body-parser')
8 const path = require('path')
9 require('dotenv').config()
10
11 app.use(bodyParser.urlencoded({
12   extended: true
13 }));
14 app.use(express.json())
15 app.use(bodyParser.json());
16 app.use(dataRoute)
17
18 app.use(express.static("Backend"));
19
20 app.get("", (req, res) => {
21   res.sendFile(path.resolve(__dirname, "client/build/indexmain.html"));
22 });
23
24 app.get("/mainsrs", (req, res) => {
25   res.sendFile(path.resolve(__dirname, "client/srs/mainsrs.html"));
26 });
27
28 app.get("/DFD", (req, res) => {
29   res.sendFile(path.resolve(__dirname, "client/diagrams/DFD.html"));
30 });
31
32 app.get("/STD", (req, res) => {
33   res.sendFile(path.resolve(__dirname, "client/diagrams/STD.html"));
34 });
35
36
37 // if (process.env.NODE_ENV === "production") {
38 //   app.use(express.static("../client/build"));

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Software Project\SRS>

Ln 1, Col 1 Spaces: 2 UTF-8 CRLF JavaScript

```

File Edit Selection View Go Run Terminal Help
File Explorer ... indexmain.html mainsrs.html JS server.js
Backend > JS server.js ...
14 app.use(express.json())
15 app.use(bodyParser.json());
16 app.use(dataRoute)
17
18 app.use(express.static("Backend"));
19
20 app.get("", (req, res) => {
21   res.sendFile(path.resolve(__dirname, "client/build/indexmain.html"));
22 });
23
24 app.get("/mainsrs", (req, res) => {
25   res.sendFile(path.resolve(__dirname, "client/srs/mainsrs.html"));
26 });
27
28 app.get("/DFD", (req, res) => {
29   res.sendFile(path.resolve(__dirname, "client/diagrams/DFD.html"));
30 });
31
32 app.get("/STD", (req, res) => {
33   res.sendFile(path.resolve(__dirname, "client/diagrams/STD.html"));
34 });
35
36
37 // if (process.env.NODE_ENV === "production") {
38 //   app.use(express.static("../client/build"));

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

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PS C:\Software Project\SRS>

Ln 1, Col 1 Spaces: 2 UTF-8 CRLF JavaScript

4.2.3. This snippet of code is used to make the DFD diagram for the inputs that the client entered.

```
var linkdataArray = [];
```

```

const flag1 = []

const flag2 = []

for (const proc of json.dfd){

    var f = 0;

    var s = 0;

    for (const pro of json.dfd) {

        if (proc[0]==pro[2]){

            linkdataArray.push({ from: pro[1], to: proc[1], text: pro[2], toText: "====>" });

            f++;

        } else if (pro[0]==proc[2]){

            s++;

        }

    }

    flag1.push(f);

    flag2.push(s)

}

for (const proc in json.dfd){

    if(flag1[proc]==0){

        linkdataArray.push({ from: "Start", to: json.dfd[proc][1], text: json.dfd[proc][0], toText: "====>" });

    }

    if(flag2[proc]==0){

        linkdataArray.push({ from: json.dfd[proc][1], to: "End", text: json.dfd[proc][2], toText: "====>" });

    }

}

```

{}

```

File Edit Selection View Go Run Terminal Help DFD.html - SRS - Visual Studio Code

EXPLORER indexmain.html DFD.html login.html
Backend > client > diagrams > DFD.html ...
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta charset="UTF-8">
5   <title>Entity Relationship</title>
6   <meta name="description" content="Interactive entity-relationship diagram or data model diagram implemented by goJS in JavaScript.">
7   <meta name="viewport" content="width=device-width, initial-scale=1">
8   <link rel="stylesheet" type="text/css" href="../../public/vendor/bootstrap/css/bootstrap.min.css">
9   <link rel="stylesheet" type="text/css" href="../../public/fonts/font-awesome-4.7.0/css/font-awesome.min.css">
10  <link rel="stylesheet" type="text/css" href="../../public/vendor/animate/animate.css">
11  <link rel="stylesheet" type="text/css" href="../../public/vendor/css-hamburgers/hamburgers.min.css">
12  <link rel="stylesheet" type="text/css" href="../../public/vendor/select2/select2.min.css">
13  <link rel="stylesheet" type="text/css" href="../../public/css/util.css">
14  <link rel="stylesheet" type="text/css" href="../../public/css/main.css">
15  <!-- Copyright 1998-2020 by Northwoods Software Corporation. -->
16 </head>
17 <body onload="init()">
18 <div id="sample">
19   <div id="myDiagramDiv" style="background-color: #white; border: solid 1px black; width: 100%; height: 850px"></div>
20 </div>
21 <div class="container-contact1-form-btn" style="text-align:center;">
22   <a href="http://localhost:3000/STP">
23     <button class="contact1-form-btn col" onclick="window.location.href='acronym.html';">-->
24       <span>

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: powershell

Windows PowerShell
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PS C:\Software Project\SRS> []

Ln 1, Col 1 Spaces:2 UTF-8 with BOM CRLF HTML R Q 3:24 PM 6/1/2021

```

File Edit Selection View Go Run Terminal Help DFD.html - SRS - Visual Studio Code

EXPLORER indexmain.html DFD.html login.html
Backend > client > diagrams > DFD.html ...
54   'lightgreen': '#b9e986',
55   'pink': '#faad1',
56   'purple': '#d689ff',
57   'orange': '#fdb400',
58 }
59 // the template for each attribute in a node's array of item data
60 var itemTemplate =
61   $(<go.Panel>, "Horizontal",
62     $(<go.Shape>,
63       { desiredSize: new go.Size(15, 15), strokeJoin: "round", strokeWidth: 3, stroke: null, margin: 2 },
64       new go.Binding("figure", "figure"),
65       new go.Binding("fill", "color"),
66       new go.Binding("stroke", "color")),
67     $(<go.TextBlock>,
68       {
69         stroke: "#333333",
70         font: "bold 14px sans-serif"
71       },
72       new go.Binding("text", "name"))
73 );
74 // define the Node template, representing an entity
75 myDiagram.nodeTemplate =
76
77

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE 1: powershell

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PS C:\Software Project\SRS> []

Ln 1, Col 1 Spaces:2 UTF-8 with BOM CRLF HTML R Q 3:24 PM 6/1/2021

```

File Edit Selection View Go Run Terminal Help
DFD.html - SRS - Visual Studio Code
EXPLORER ... indexmain.html DFD.html login.html
Backend > client > diagrams > DFD.html ...
198   }
199   }
200   for (const proc in json.dfd){
201     if(flag1[proc]==0){
202       linkdataArray.push({ from: "Start", to: json.dfd[proc][1], text: json.dfd[proc][0], toText: "====>" });
203     }
204     if(flag2[proc]==0){
205       linkdataArray.push({ from: json.dfd[proc][1], to: "End", text: json.dfd[proc][2], toText: "====>" });
206     }
207   }
208   myDiagram.model = $(go.GraphLinksModel,
209   {
210     copiesArrays: true,
211     copiesArrayObjects: true,
212     nodeDataArray: nodedataArray,
213     linkDataArray: linkdataArray
214   });
215   // console.log(json)
216 }).catch(function(err) {
217   console.log('Fetch problem: ' + err.message);
218 });
219   </script>
220 </body>
221 </html>

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Software Project\SRS>

Ln 1, Col 1 Spaces: 2 UTF-8 with BOM CRLF HTML

1: powershell

Type here to search

4.2.4. This snippet of code is used to send data from the frontend to the Backend to store the data in the Database. We send the client entered data in JSON format through the POST method.

```

const dataSRS = {

  "constraints": [
    {"const":constraint1}, {"const":constraint2}, {"const":constraint3}, {"const":constraint4}, {"const":constraint5}, {"const":constraint6}, 

    "organizationName": organizationName, 
    "projectName": projectName, 
    "projectScope": projectScope, 
    "notProjectScope": notProjectScope, 

    "definitions": [
      {"definition":definition1, "description":description1}, {"definition":definition2, "description":description2}, {"definition":definition3, "description":description3}], 

    "references": [{"reference": reference1, "description": descriptionreference1}, {"reference": 

```

reference2, "description": descriptionreference2}, {"reference": reference3, "description": descriptionreference3}],

 "perspective": perspective,

 "requirements":

 [{"req": requirement1}, {"req": requirement2}, {"req": requirement3}, {"req": requirement4}, {"req": requirement5}, {"req": requirement6}],

 "processes": [{"system": system1, "intro": intro1, "purpose": purpose1, "input": input1, "process": process1, "output": output1}, {"system": system2, "intro": intro2, "purpose": purpose2, "input": input2, "process": process2, "output": output2}, {"system": system3, "intro": intro3, "purpose": purpose3, "input": input3, "process": process3, "output": output3}],

 "users":

 [{"user": user1, "description": descriptionuser1}, {"user": user2, "description": descriptionuser2}, {"user": user3, "description": descriptionuser3}],

 "dictionary": [{"name": name1, "alias": alias1, "used": used1, "description": dictionarydescription1, "info": info1}, {"name": name2, "alias": alias2, "used": used2, "description": dictionarydescription2, "info": info2}],

 "assumptions": [{"assumption": assumption1, "description": descriptionassump1}, {"assumption": assumption2, "description": descriptionassump2}, {"assumption": assumption3, "description": descriptionassump3}],

 "performance": [{"requirement": requirement1, "description": perfdescription1}, {"requirement": requirement2, "description": perfdescription2}, {"requirement": requirement3, "description": perfdescription3}],

 "designconstraint": [{"constraint": constraint1, "description": designdescription1}, {"constraint": constraint2, "description": designdescription2}],

 "standards": [{"standard": standard1, "description": standdescription1}, {"standard": standard2, "description": standdescription2}, {"standard": standard3, "description": standdescription3}],

"reliability": reliability,

"security": security,

"maintainability": maintainability,

"portability": portability,

"dfdprocesses": [{"input": dfdinput1, "process": dfdprocess1, "output": dfdoutput1}, {"input":

```

dfdinput2,"process": dfdprocess2,"output":dfdoutput2},{ "input": dfdinput3,"process":
dfdprocess3,"output":dfdoutput3},{ "input": dfdinput4,"process":
dfdprocess4,"output":dfdoutput4},{ "input": dfdinput5,"process":
dfdprocess5,"output":dfdoutput5},{ "input": dfdinput6,"process": dfdprocess6,"output":dfdoutput6}]

}

$.ajax({


    type: "POST",

    url: "https://svk-software-project.herokuapp.com/start",

    dataType: "json",

    contentType: "application/json; charset=utf-8",

    data: JSON.stringify(dataSRS),

    success: function(data){

        console.log(data);

    },

    error: function(xhr,status,error){

        console.log(error);

    }

});

}

```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta content="width=device-width, initial-scale=1.0" name="viewport">
    <link rel="icon" type="image/png" href="images/icons/favicon.ico" />
    <link rel="stylesheet" type="text/css" href="../../public/vendor/bootstrap/css/bootstrap.min.css">
    <link rel="stylesheet" type="text/css" href="../../public/fonts/font-awesome-4.7.0/css/font-awesome.min.css">
    <link rel="stylesheet" type="text/css" href="../../public/vendor/animate/animate.css">
    <link rel="stylesheet" type="text/css" href="../../public/vendor/css-hamburgers/hamburgers.min.css">
    <link rel="stylesheet" type="text/css" href="../../public/vendor/select2/select2.min.css">
    <link rel="stylesheet" type="text/css" href="../../public/css/util.css">
    <link rel="stylesheet" type="text/css" href="../../public/css/main.css">
</head>
<title>SRS Generator</title>
<meta content="" name="description">
<meta content="" name="keywords">
<!-- Favicons -->
<link href="../../public/assets/img/logo.jpg" rel="icon">
<link href="../../public/assets/img/logo.jpg" rel="apple-touch-icon">
<!-- Google Fonts -->

```

PROBLEMS 1 OUTPUT TERMINAL DEBUG CONSOLE

Filter (e.g. text, **/*.ts, !**/node_modules/**)

mainrs.html Backend/client/srs 1

⚠ Unknown property: 'mso-break-type' css(unknownProperties) [156, 64]

Ln 185, Col 26 Spaces: 2 UTF-8 CRLF HTML ⚡ 3:42 PM 6/1/2021

```
<table style="width:405.25pt; margin-left:0.25pt; border:0.75pt solid #000000; border-collapse:collapse;">
    <tbody>
        <tr style="height:12.7pt;">
            <td style="width:12.65pt; border-right-style:solid; border-right-width:0.75pt; border-bottom-style:solid; border-bottom-width:0.75pt; padding-top:0pt; padding-left:0.25pt; padding-bottom:0pt; padding-right:0.25pt; font-size:10pt;"><strong><span style="font-family:Calibri; font-size:10pt;">

PROBLEMS 1 OUTPUT TERMINAL DEBUG CONSOLE



Filter (e.g. text, **/*.ts, !**/node_modules/**)



mainrs.html Backend/client/srs 1



⚠ Unknown property: 'mso-break-type' css(unknownProperties) [156, 64]



Ln 185, Col 26 Spaces: 2 UTF-8 CRLF HTML ⚡ 3:42 PM 6/1/2021


```

```

<tr>
    <p style="margin-top:0pt; margin-bottom:0pt; line-height:108%; font-size:12pt;"><span style="font-family:Calibri; font-weight:bold; color:#000000; font-size:12pt;">About Us</span></p>
    <p style="margin-top:0pt; margin-bottom:14.4pt; line-height:108%; font-size:12pt;"><span style="font-family:Times New Roman; font-weight:bold; color:#000000; font-size:12pt;">Data Flow Diagram</span></p>
    <div style="clear:both;">
        <!-- <p style="margin-top:0pt; margin-right:9pt; margin-bottom:0pt; text-align:center; line-height:108%; font-size:12pt;"><a href="http://localhost:3000/DFD"><span style="color:#000000; font-size:12pt;">Data Flow Diagram <i class="fa fa-arrow-right" aria-hidden="true"></i></a></p> -->
        <button class="contact1-form-btn col" onclick="window.location.href='acronym.html';">
            <span>
                Data Flow Diagram <i class="fa fa-arrow-right" aria-hidden="true"></i>
            </span>
        </button>
    </div>
</div>
</section><!-- End About Us Section -->
<script src="../../fetch.js"></script>
<!-- Vendor JS Files -->
<script src="../../public/assets/vendor/iuverv/iuverv.min.js"></script>

```

PROBLEMS 1 OUTPUT TERMINAL DEBUG CONSOLE

mainsrs.html Backend\client\srs 1

⚠ Unknown property: 'mso-break-type' css(unknownProperties) [156, 64]

4.3. CONSTRAINTS AND TRADEOFFS:

The following is a table of the design constraints that the system SHALL meet. The list of constraints was produced from the initial project documentation provided by the requirements expert.

Table of Design Constraints:

Origin	Shall Requirement
Project Manager, Freelancer	Proper understanding of the inputs needed SHALL be ensured so that the user enters relevant and correct data.
Project Manager, Java Developer	The sections necessary for the SRS document to be generated SHALL be flagged as mandatory to ensure the user enters some data in the respective fields.
Java Developer	The data taken as input SHALL be correctly identified and processed so that in the output SRS document, correct data goes in the correct fields.
UML Developer	The system SHALL be able to understand the process and transition inputs to ensure the accuracy of the dataflow and the state transition diagrams.
Java Developer	The output SRS document SHALL be modifiable so that the user can make any further changes as required.

The SRS Document Generator to implement the required functionality, has placed certain design constraints on the design of the software. The table below lists those design constraints.

Table of Design Constraints:

Design Constraint	Description
Different backgrounds	The software should be such that it can be used by different people from varying backgrounds and of different age groups.
Programming language	The software should be such that it can be used on multiple platforms and interfaces by different programming languages. The language used in this software are NodeJs and MongoDB

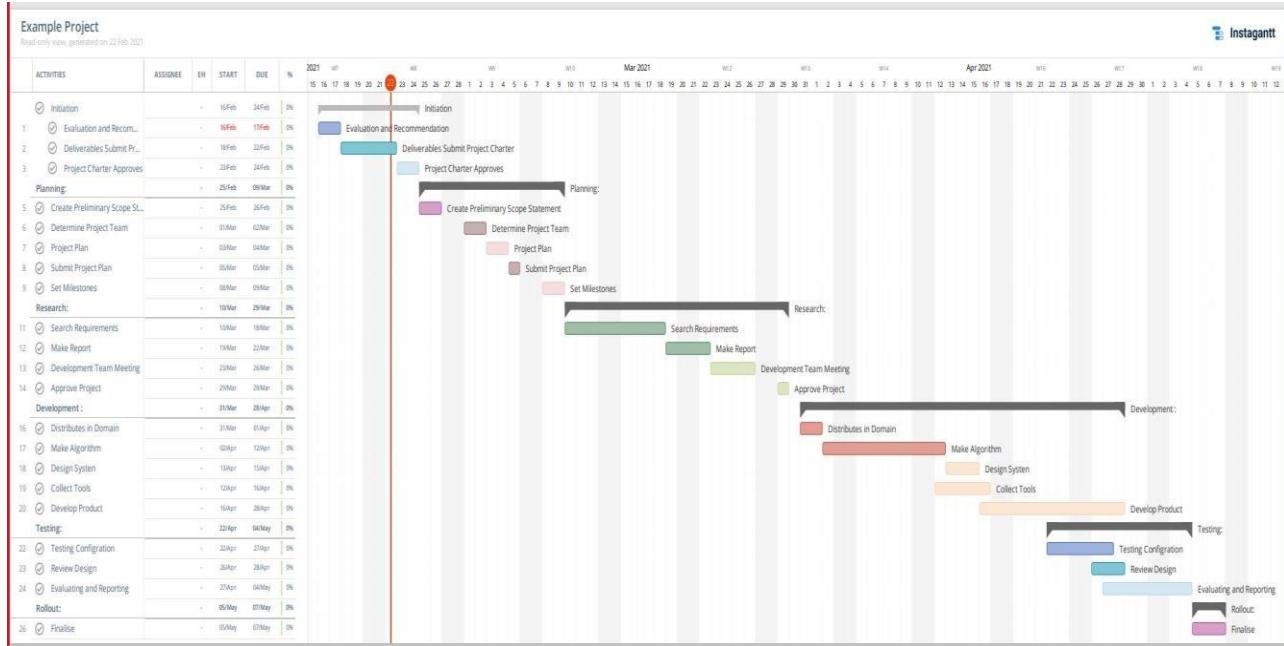
TRADEOFFS:

Software developers usually have to make srs documents on a regular bases to make their work efficient and more presentable, for that we came up with this SRS document generator which will help them increase their work efficiency and productivity by saving their time.

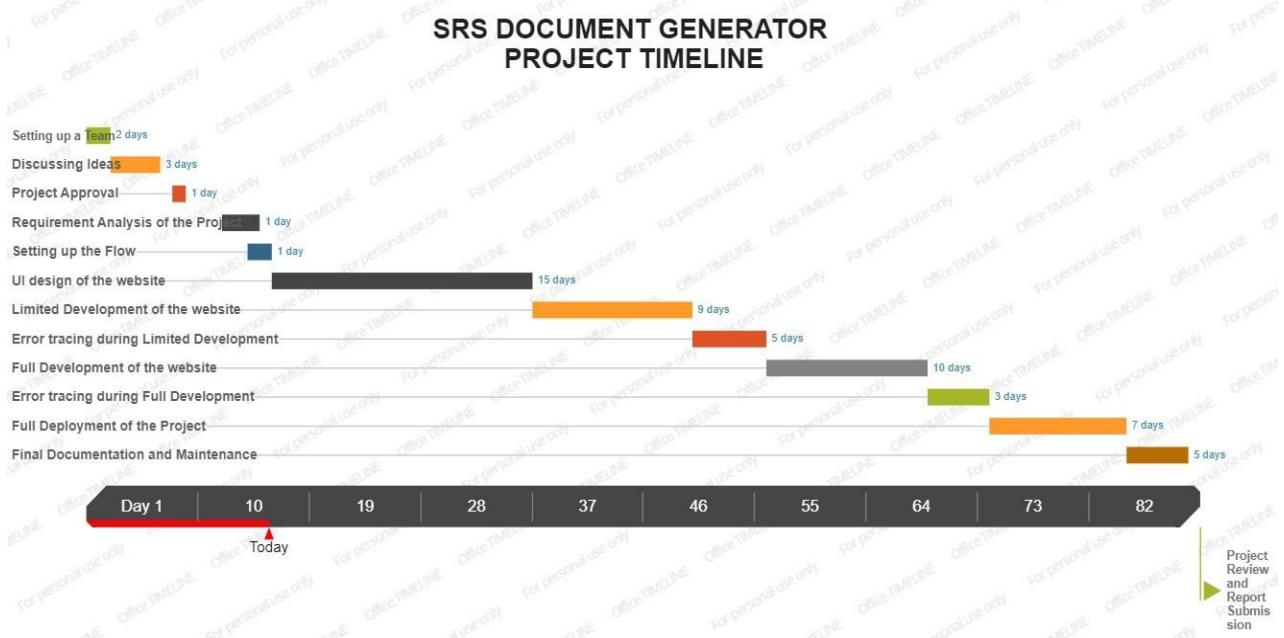
The developers can't put in the required time to build the complete document from scratch, so we came up with this web based SRS DOCUMENT GENERATOR which will help them make their SRS DOCUMENT with the help of the their requirements which they input to the website.

5. SCHEDULE TASKS AND MILESTONES:

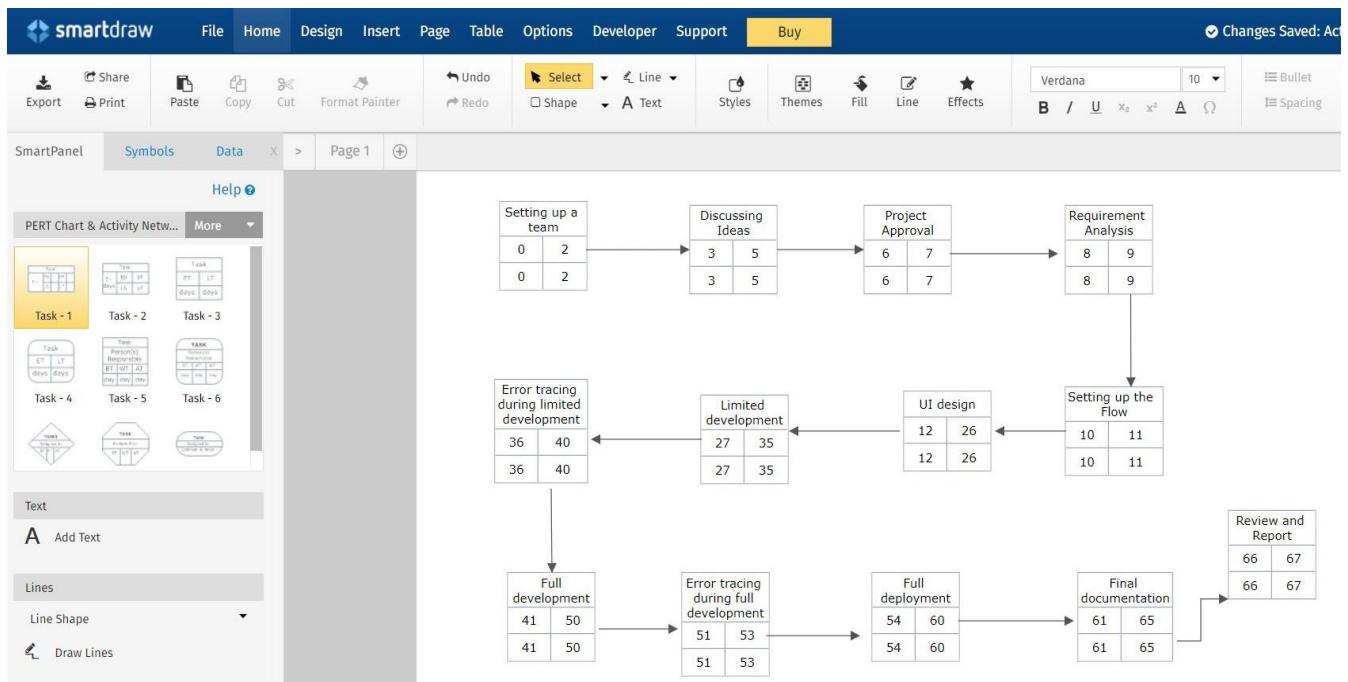
5.1.GANTT CHART:



5.2. TIMELINE CHART:



5.3. ACTIVITY CHART:



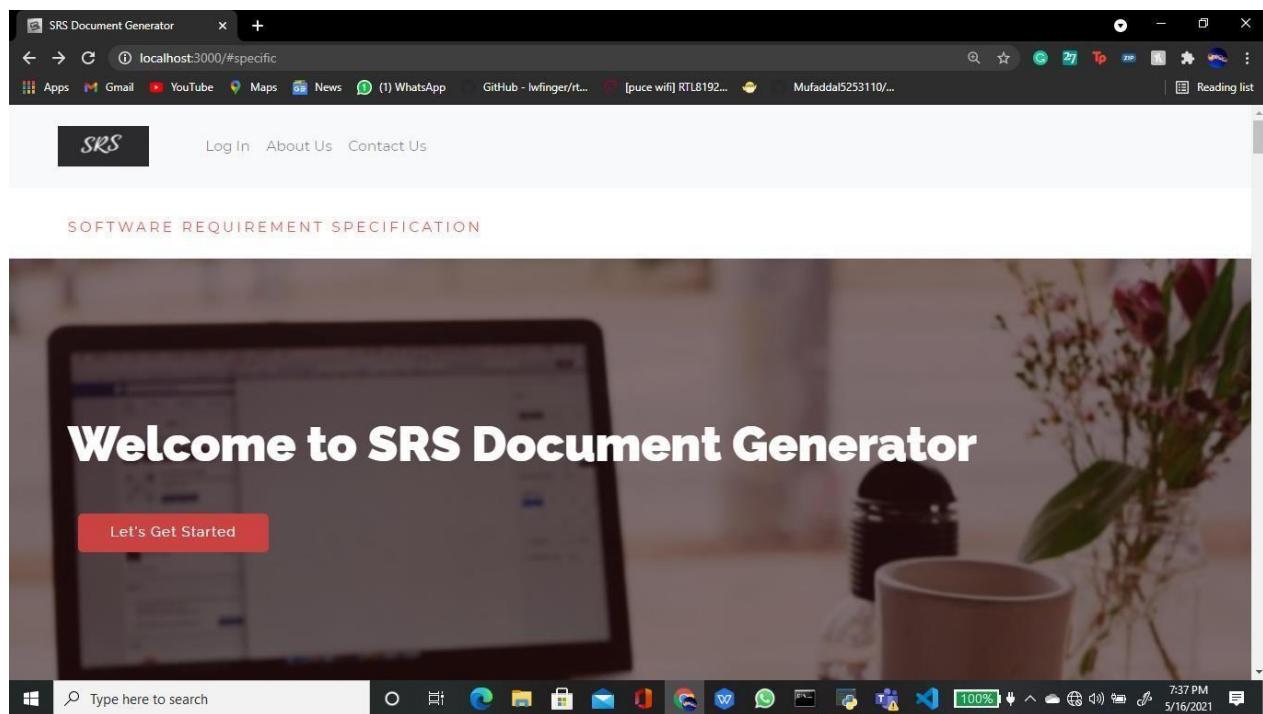
<u>TASK</u>	<u>LABEL</u>	<u>PREDECESSORS</u>	<u>ESTIMATION DURATION</u>
Setting up a team	A	-	2 days
Discussing ideas	B	A	3 days
Project Approval	C	A,B	1 day
Requirement Analysis	D	A,B,C	1 day
Setting up the flow	E	A,B,C	1 day
UI Design	F	A,B,C,D	15 days
Limited development	G	A,B,C,D,E,F	9 days
Error tracing during limiteddevelopment	H	A,B,C,D,E,F,G	5 days
Full development	I	A,B,C,D,E,F,G,H	10 days
Error tracing during fulldevelopment	J	A,B,C,D,E,F,G,H,I	3 days
Full deployment	K	A,B,C,D,E,F,G,H,I,J	7 days
Final documentation andMaintenance	L	A,B,C,D,E,F,G,H,I,J,K	5 days

6. PROJECT DEMONSTRATION:

Project demonstration will include the implementation of our website.

Landing Page

Screenshot:



Description:

This is the landing page of The SRS Document Generator. This page is obtained when the user taps on the URL. This particular page will contain a '**'Log Out'** button, '**'About Us'** button, '**'Contact Us'**' button and a '**'Let's Get Started'**' button.

Authentication Page Description

Screenshot:



Login to SRS Document generator

Now create SRS document for free!

Username
your-email@gmail.com

Password
Your Password

Remember me

New to this? [Sign up!](#)

Log In



Sign UP for free
Become a member of our family today

Username
your-email@gmail.com

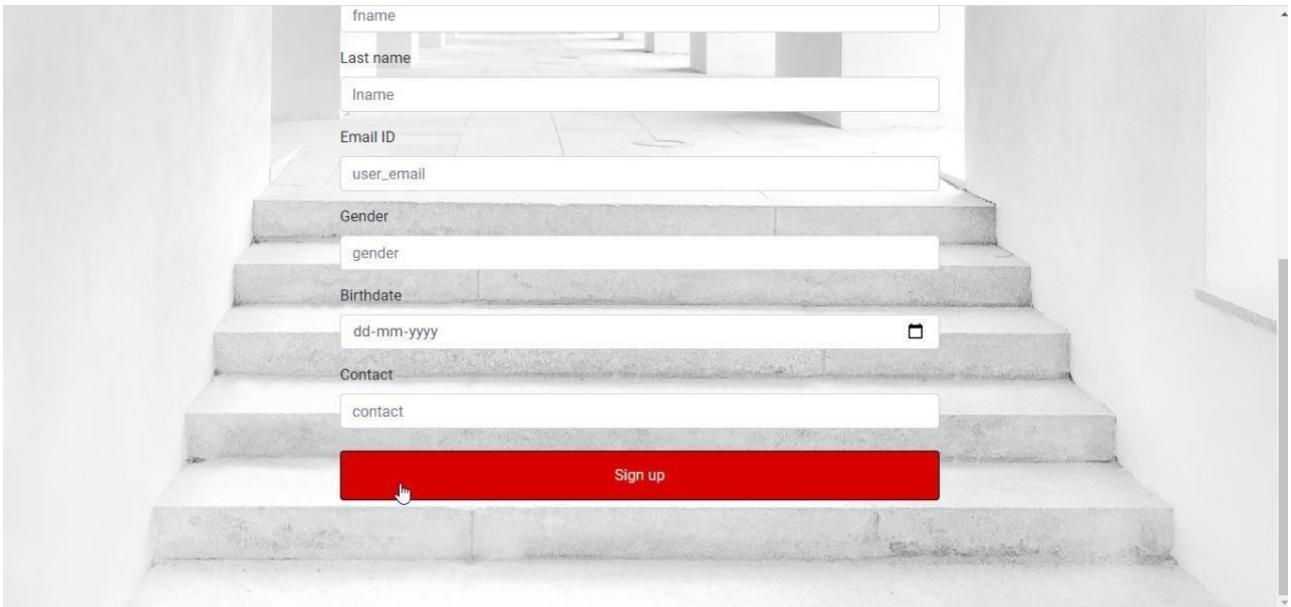
Password
Your Password

Created on date
dd-mm-yyyy

First name
fname

Last name
lname

Email ID
user_email



The screenshot displays a MySQL query results page. The query shown is:

```
SELECT * FROM `users`
```

The results table has columns: id, username, password, and created_at. There is one row with the values: 1, admin, admin, 2021-05-05 00:00:00. Below the table are standard database navigation and export options.

	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input checked="" type="checkbox"/> Delete	<input type="checkbox"/> Export
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

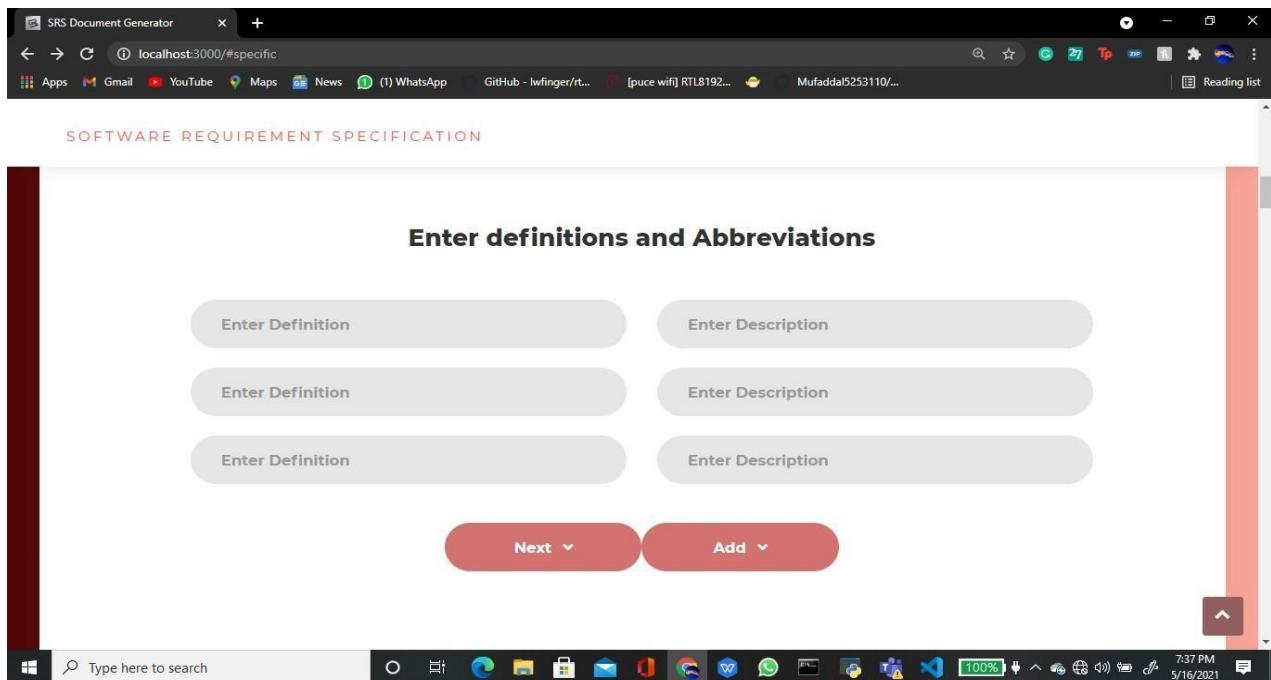
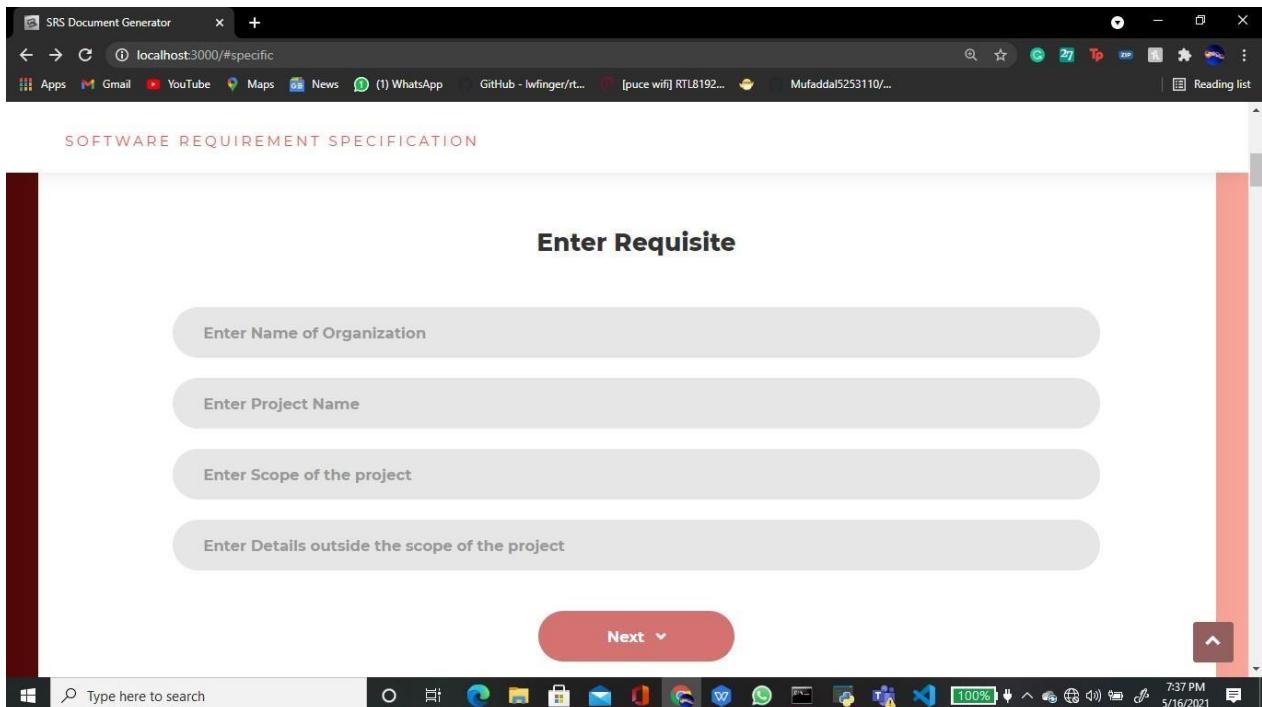
Description:

As soon as you tab the Generate SRS button, a window appears naming '**USER LOGIN**' which has two fields: '**User ID**' and '**Password**' and a button '**Login**' to submit these values. Users can enter the details for username, password; and click on the Login button. Once the button is clicked, a function is called to validate the credentials.

As soon as you tab the Generate SRS button, a window appears naming '**USER LOGIN**' which has two fields: '**User ID**' and '**Password**' and a button '**Login**' to submit these values. Users can enter the details for username, password; and click on the Login button. Once the button is clicked, a function is called to validate the credentials.

Details, Abbreviations, and Acronyms

Screenshot:



Description:

These are the definitions, acronyms, and abbreviations UI of the project.

The interfaces are interactive and ask the user to fill the specific requirements of the project.

Also, the acronyms and abbreviations are explained with the help of examples like Software requirements specification is written as SRS, Simple mail transport protocol is written as SMTP, etc

Software Development plan and data dictionary

Screenshot:

The screenshot shows a web application window titled "SRS Document Generator" at "localhost:3000/#specific". The main content area is titled "SOFTWARE REQUIREMENT SPECIFICATION" and contains a form titled "Enter Postulates and Constraints of Software Development Plan". The form consists of three rows, each with two input fields: "Enter Assumption" and "Enter Description". Below the form are two buttons: "Next ▾" and "Add ▾". The browser's address bar shows the URL "localhost:3000/#specific". The taskbar at the bottom includes icons for various Windows applications like File Explorer, Edge, and Task View.

The screenshot shows a web application window titled "SRS Document Generator" at "localhost:3000/#specific". The main content area is titled "SOFTWARE REQUIREMENT SPECIFICATION" and contains a form titled "Enter Details for Data Dictionary". The form consists of two rows, each with four input fields: "Name", "Aliases", "Where/How Used", and "Supplement Info". Between the rows is a large "Description" input field. Below the form are two buttons: "Next ▾" and "Add ▾". The browser's address bar shows the URL "localhost:3000/#specific". The taskbar at the bottom includes icons for various Windows applications like File Explorer, Edge, and Task View.

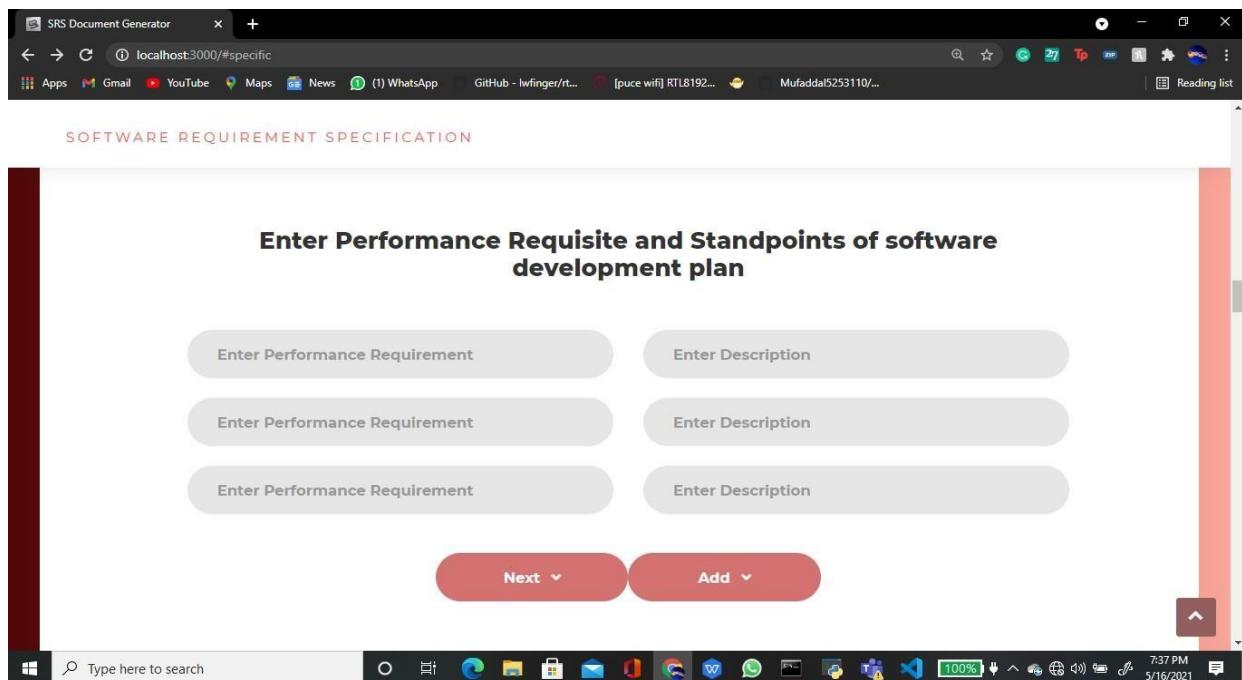
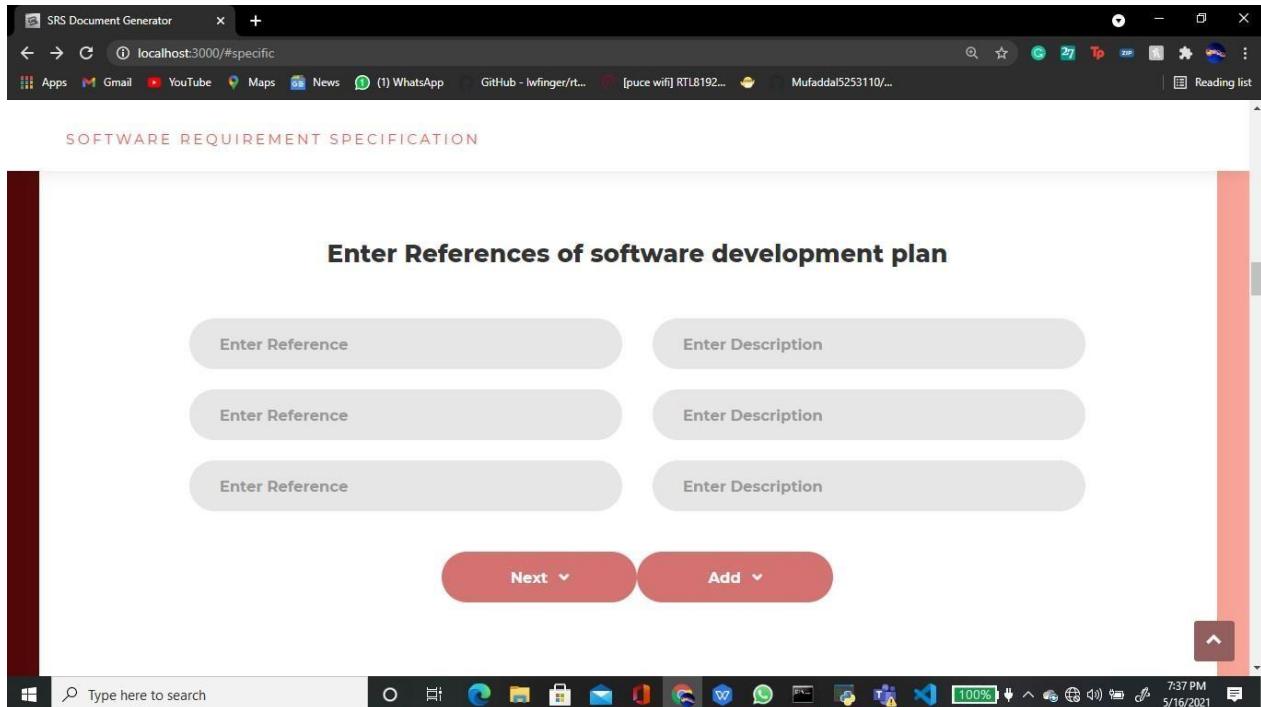
Description:

The User Interfaces allow the user to define actions to be performed by the software by entering the assumptions of the software development plan. The user can put in any number of assumptions along with the complete description of the assumed plan.

This particular UI also asks the user to enter the details for the data dictionary. It comprises the user name, alias, work done by the user, and their description.

Performance requirements

Screenshot:

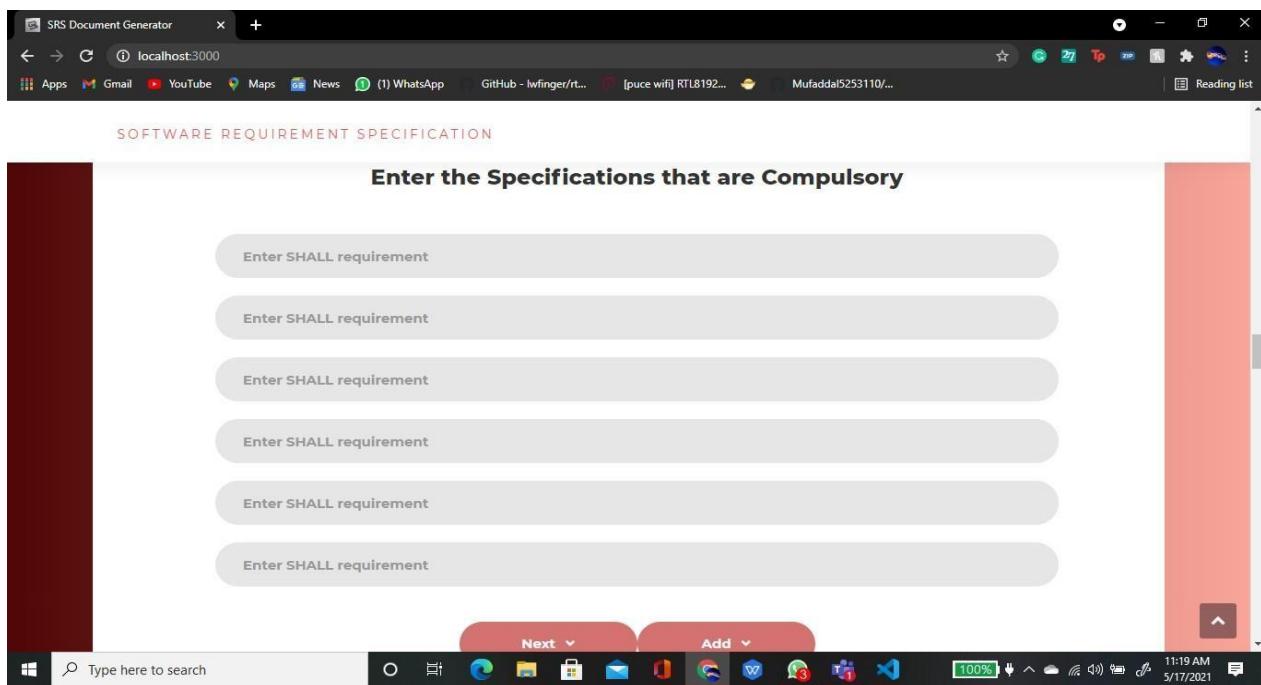
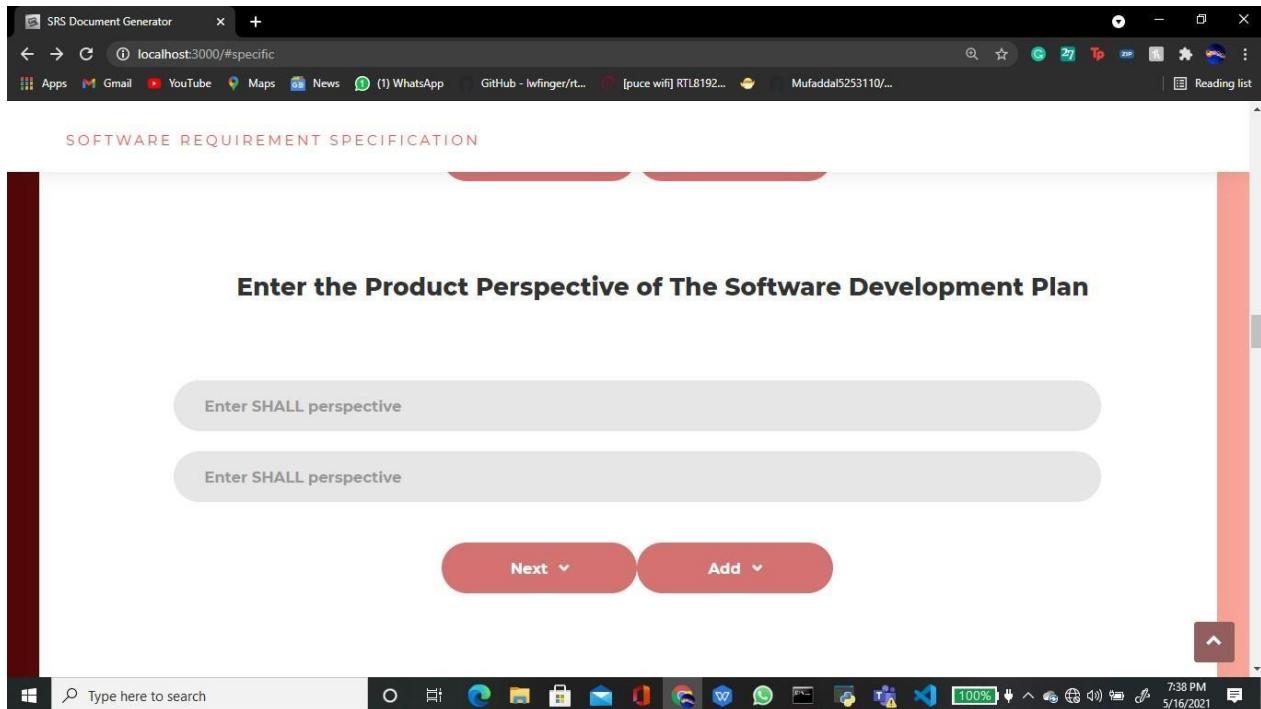


Description:

This is an interactive UI in which the user enters the references of the software development plan. It also asks the user to enter the performance requirements the user needs for their software development plan.

SHALL Requirements

Screenshot:



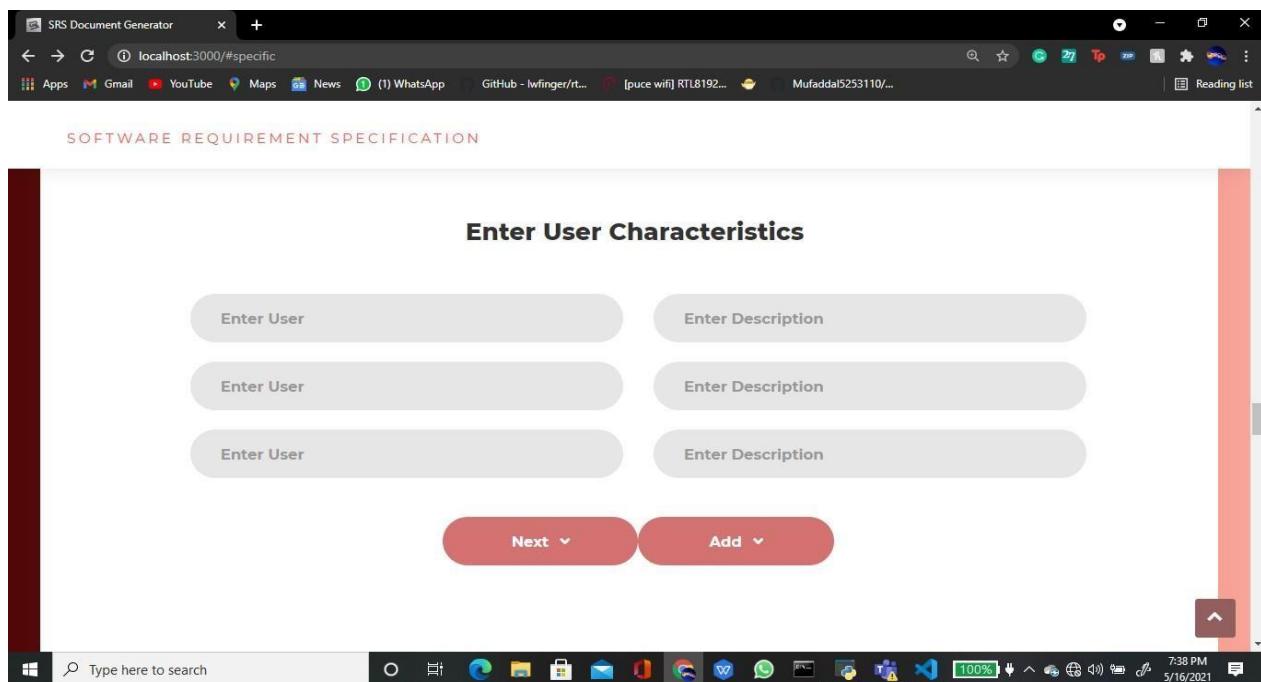
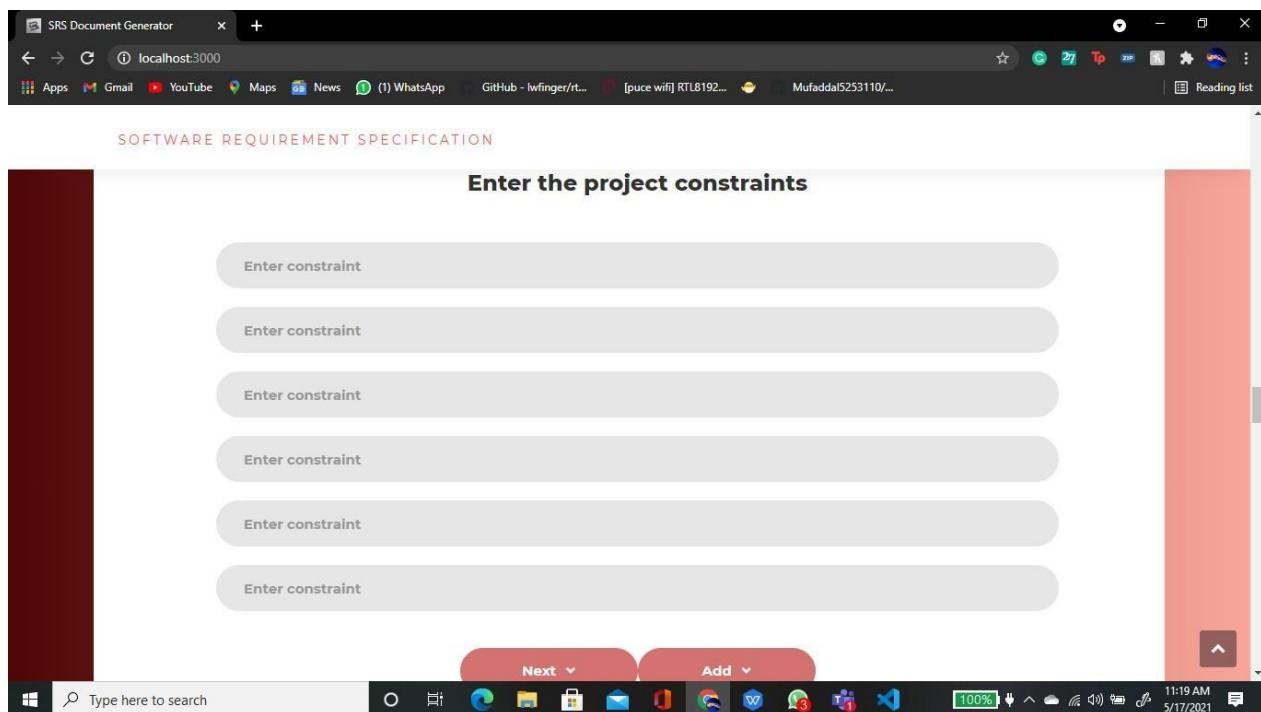
Description:

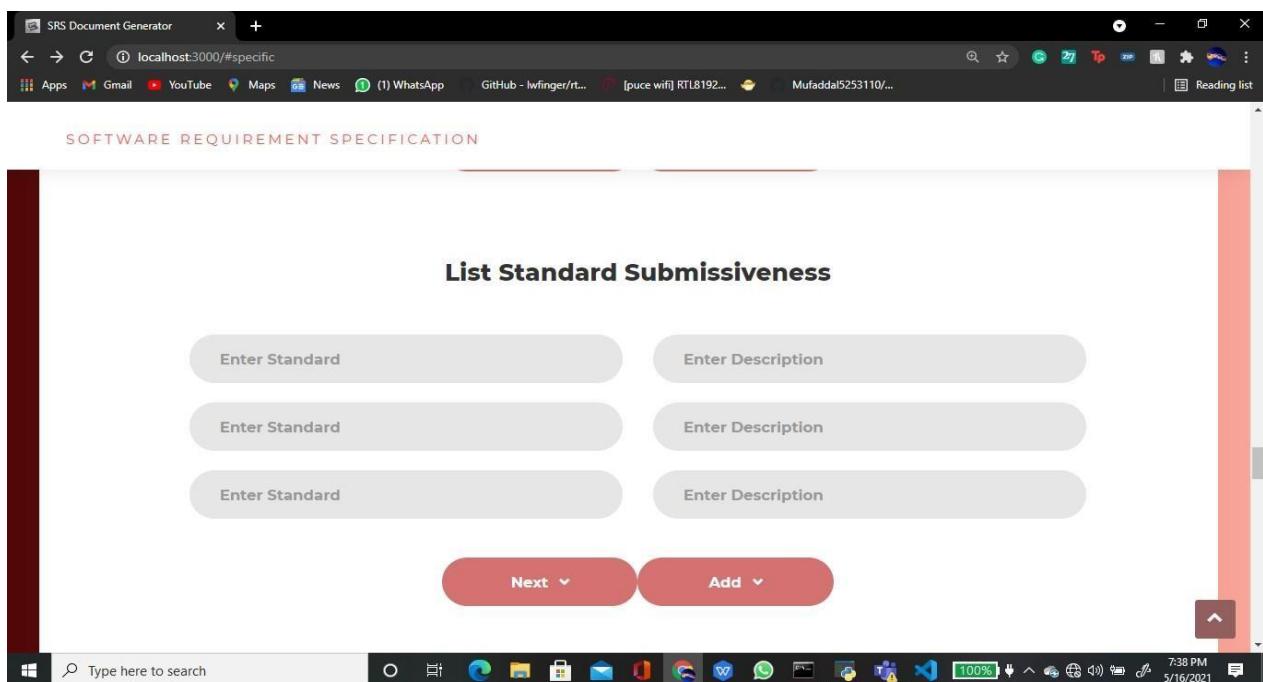
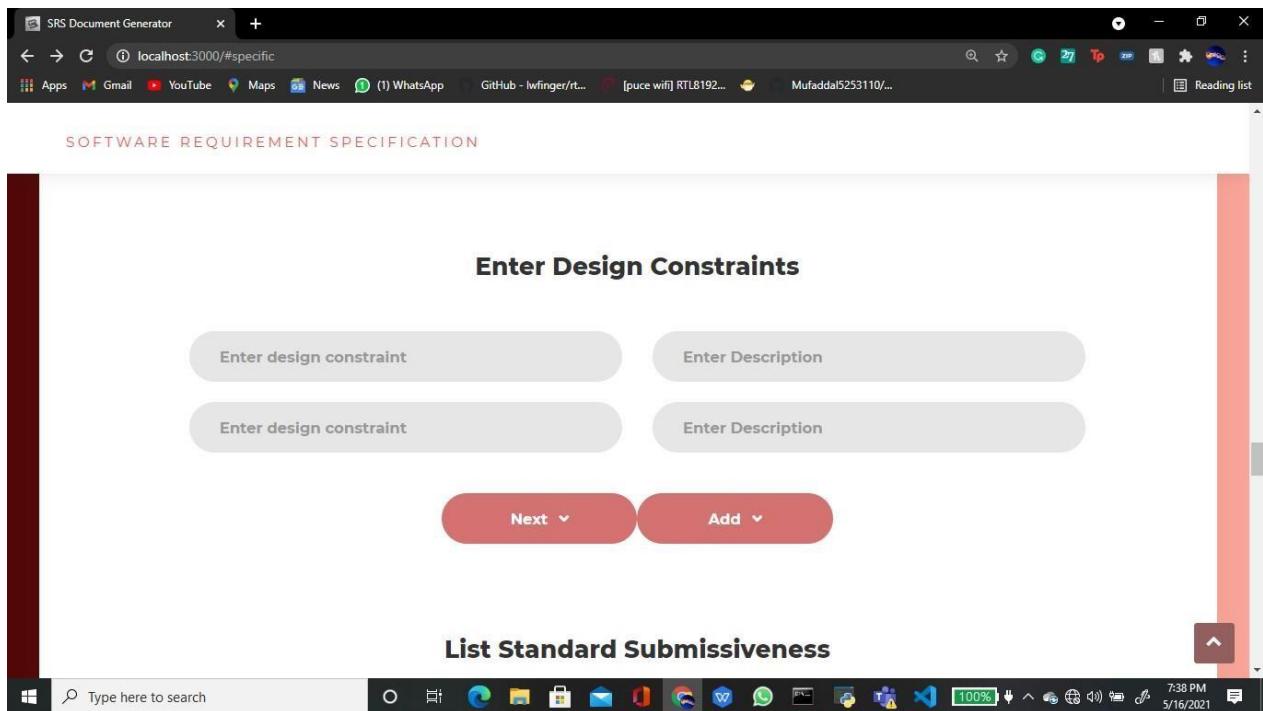
The UI for the SHALL Requirements demonstrates the potential usesof the software. The figure above displays the compulsory requirements for the user to have to get treated against various diseases.

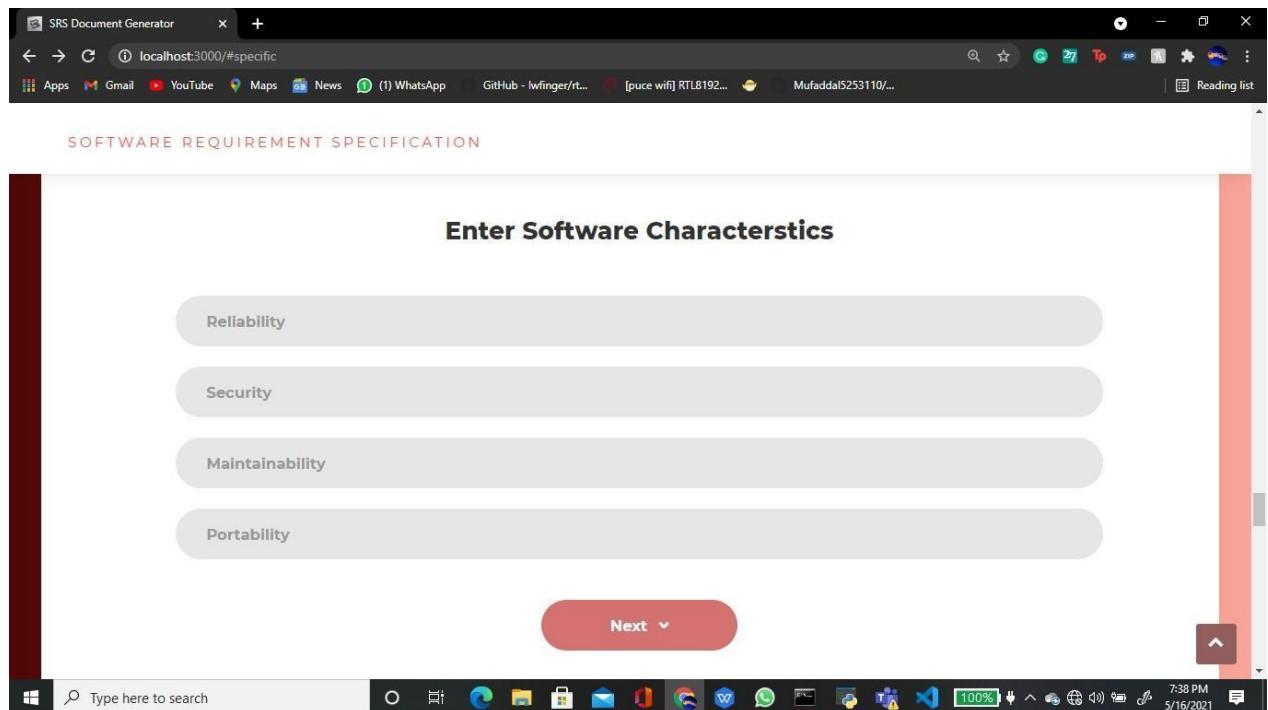
This page also displays the complete procedure for the treatment.

Project constraints

Screenshot:





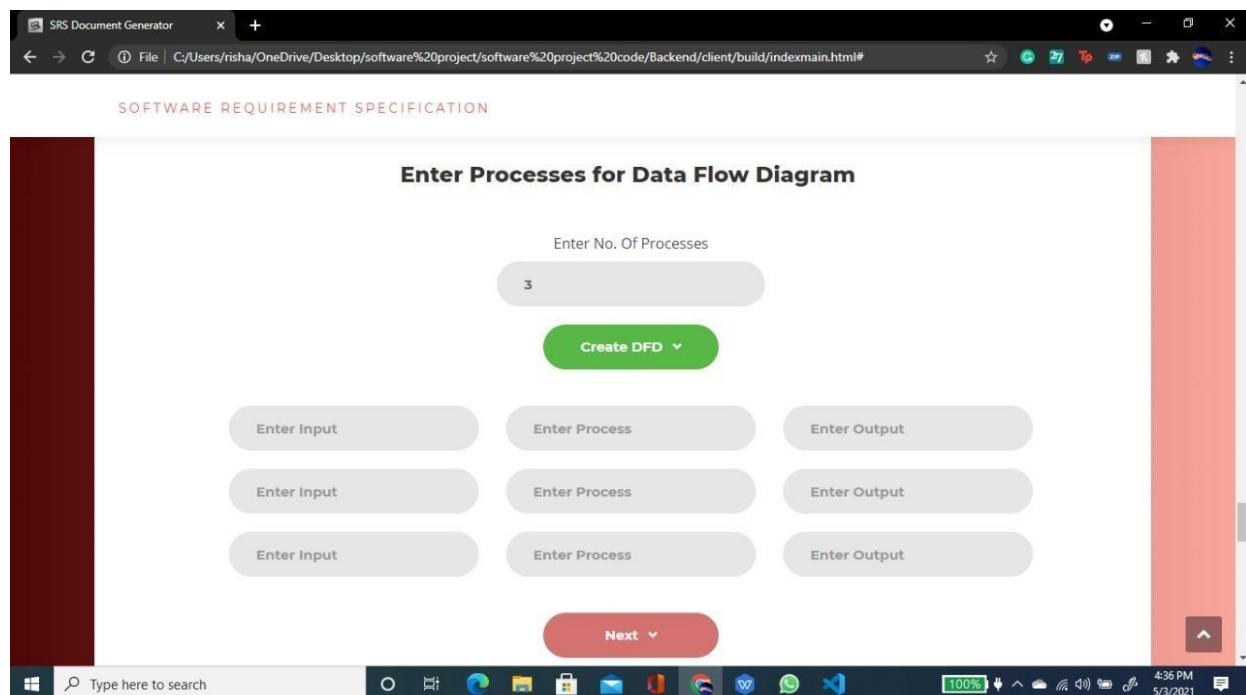
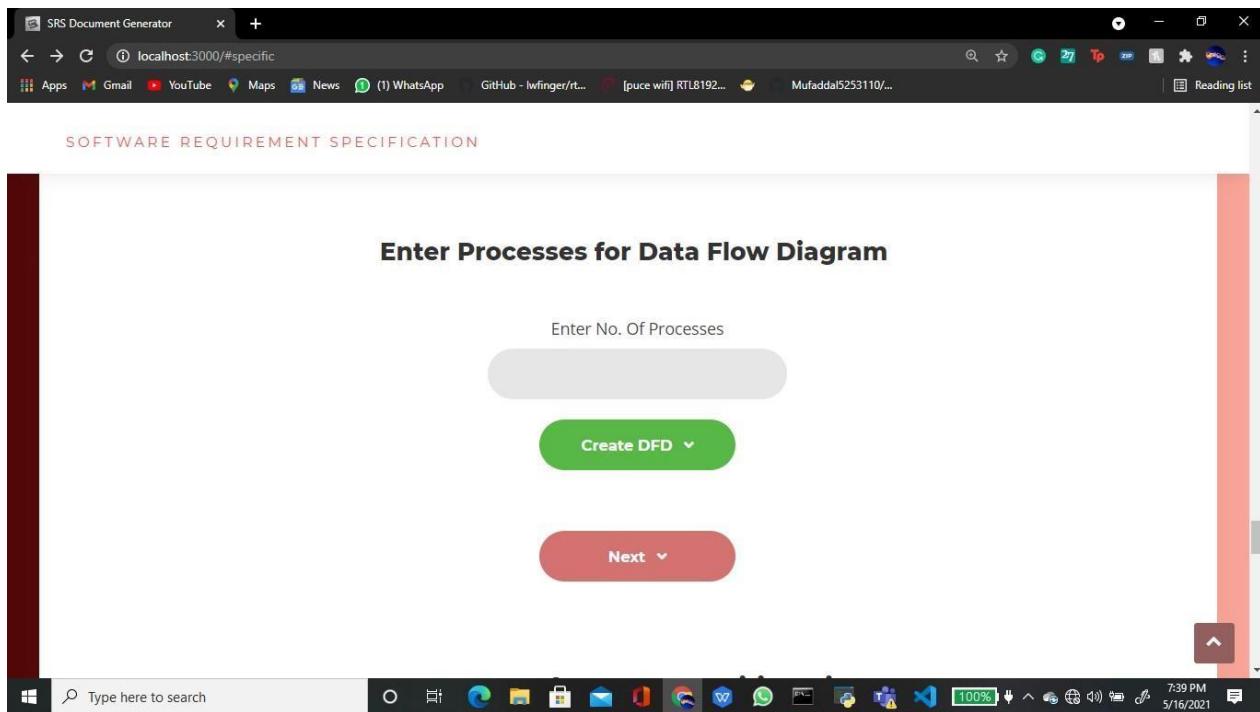


Description:

This is an interactive UI that allows the user to enter the constraints they want to force in while developing their software. It also has the feature of entering the characteristics/ work of the users. User can also add design and software constraints for precision.

Data Flow diagrams

Screenshot:

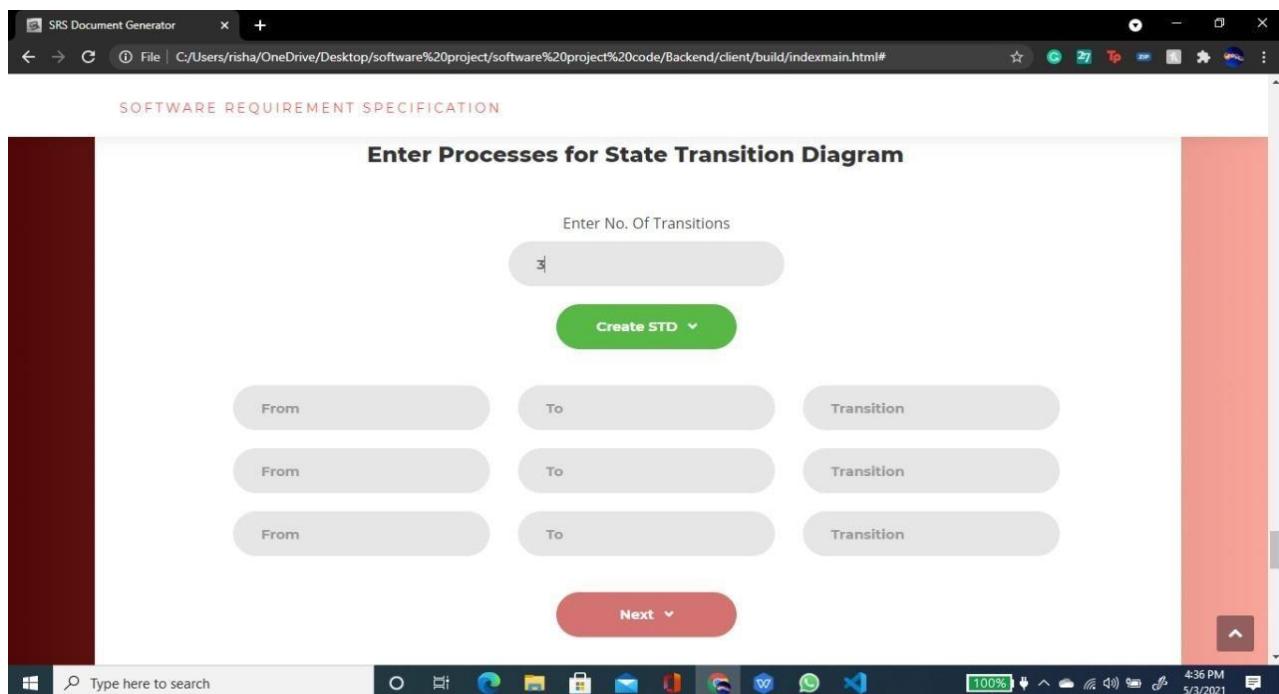
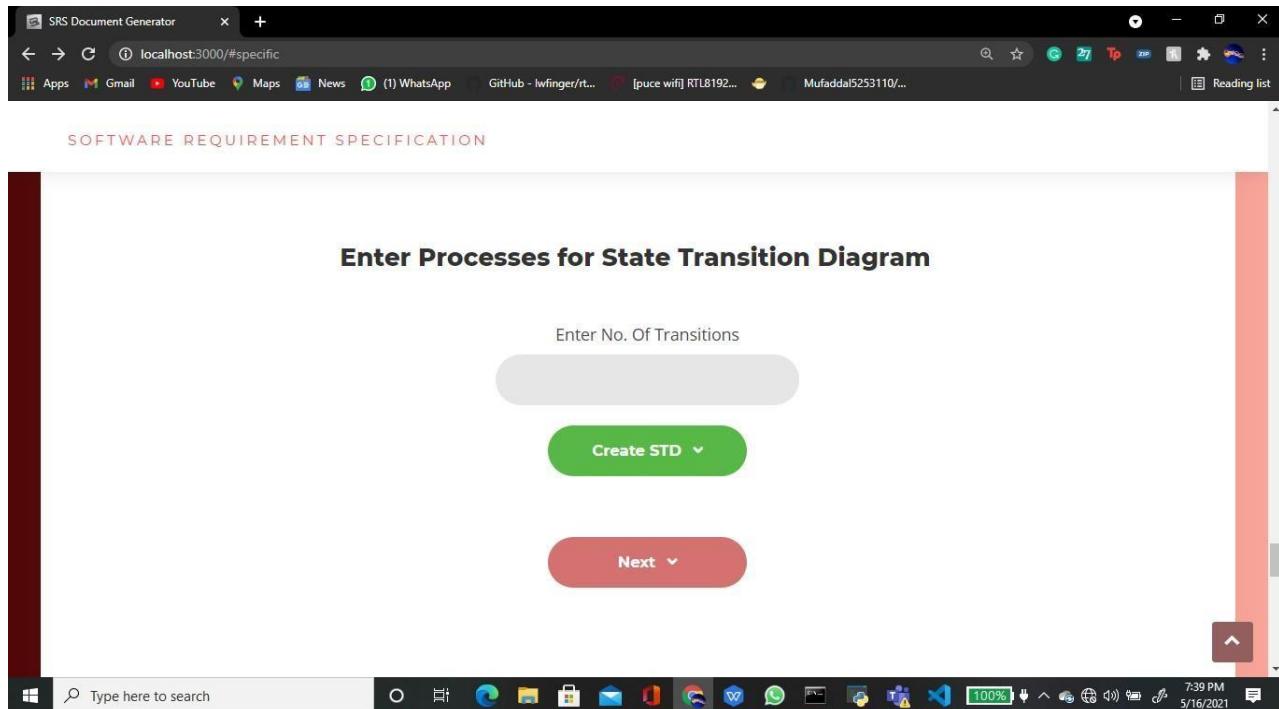


Description:

This is the Data Flow Diagram UI. It enables the user to enter the number of processes involved while generating the Data flow diagram. It enables the software to manipulate the data and create the DFD for the given project.

State transition diagram

Screenshot:



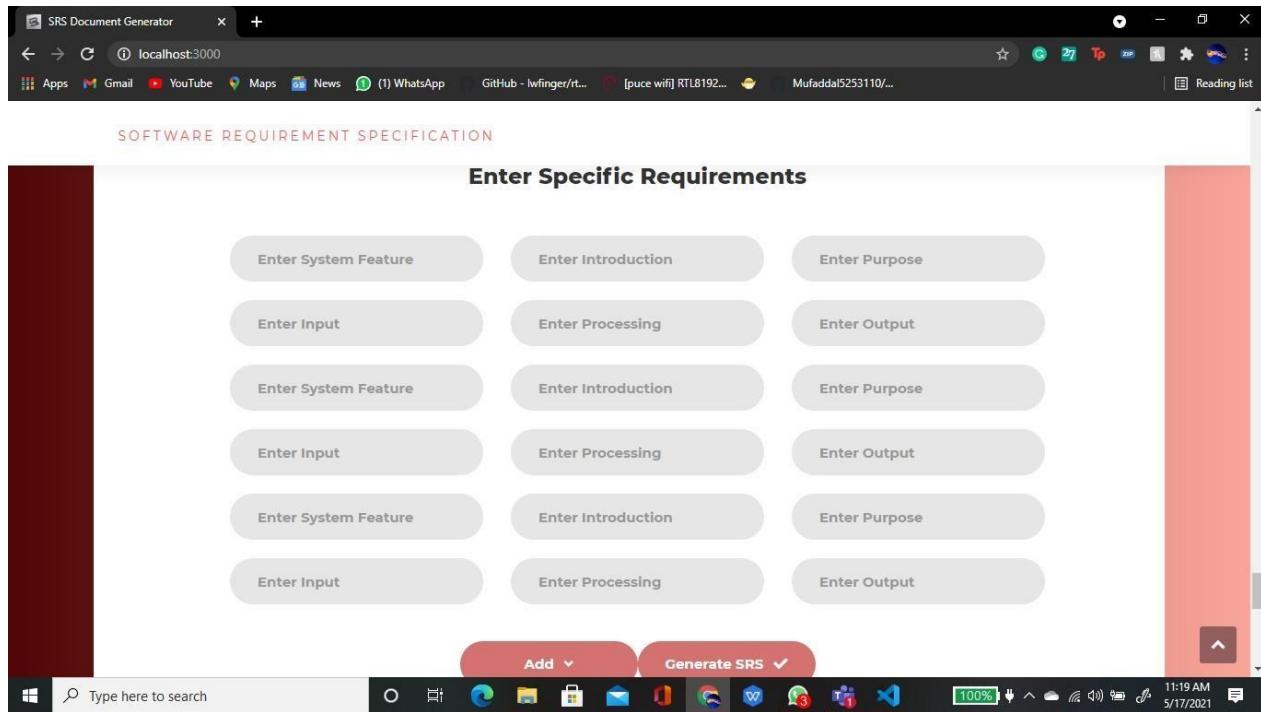
Description:

The processing of State Transition Diagrams is similar to the Data Flow Diagram. The user enters the number of transitions involved and accordingly the State Transition Diagram is generated.

This UI helps the user to understand the number of transitions a particular state goes through.

Requirements

Screenshot:

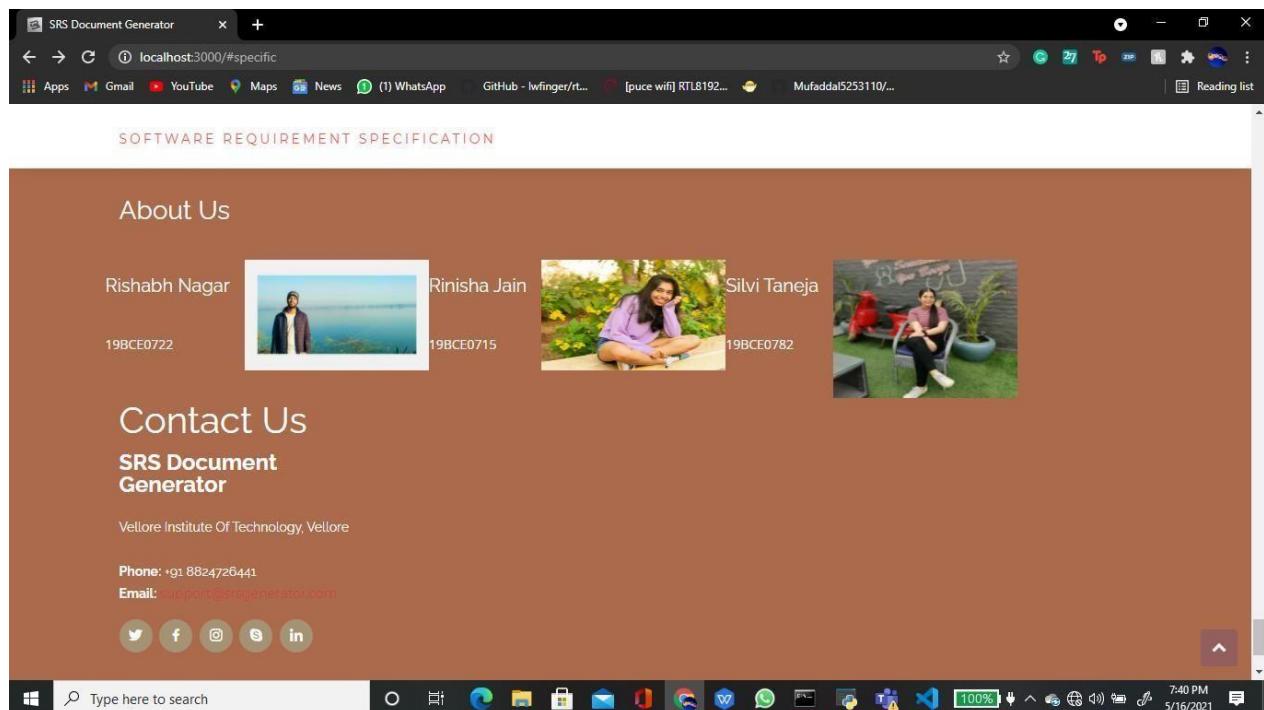


Description:

This is the Requirements UI. It asks the user to enter specific requirements regarding their project and hence, generates SRS.

Contact Us and About Us Section

Screenshot:



Description:

This GUI contains the information and the contact details of the creators of the website.

7. RESULT AND ANALYSIS:

Our problem statement was to create a software that makes the SRS generation and documentation easier for project developers. To free people from the hassle of constructing the whole document from scratch, we have developed a web based App which will generate the SRS document, which will cover the data of all the stakeholders of the project, their requirements, constraints and assumptions and also cover the expected flow of work. It will also include Data Flow Diagrams, State Transition Diagrams and Entity Relationship Diagram according to their relevance to the project. The generated SRS document can be re-edited if the user wants to.

Currently once the user generates their document and saves it and subsequently closes it, the document is removed from memory. In future, the feature can be provided for saving all your previous SRS documents on your account, wherein all the SRS documents that a user has made till now will be saved. Additionally, instead of just one simple login as is present currently, two-factor authentication can be provided so that the SRS documents of the user will have better protection. Currently the document can be saved as an HTML page, and in case the user wants to save it, he or she has to copy and paste the contents of the document. In future, a feature can be provided to the user for downloading it in multiple formats, or to mail it to their email IDs, which will be editable once the user downloads it on their system.