

**TRUBA INSTITUTE OF ENGINEERING &
INFORMATION TECHNOLOGY,
BHOPAL**



MINOR PROJECT REPORT

Submitted in partial fulfillment of the requirements for the Degree of
Bachelors of Engineering in Information Technology

Submitted To:



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**TRUBA INSTITUTE OF ENGINEERING &
INFORMATION TECHNOLOGY,
BHOPAL**



(Session:2018-2019)

DEPARTMENT OF INFORMATION TECHNOLOGY

CERTIFICATE

This is to certify that “**Sikander Makrani, Mohd Alam Khan , Akanksha Sinha**”, Student of **IT-VI Semester** of “ **Truba Institute of Engineering & Information Technology, Bhopal**” has completed their Project titled “**ZILA VIKAS MANCH**” ,as per the syllabus and has submitted a satisfactory report on this project as a partial fulfilment towards the award of degree of **Bachelor of Engineering in Information Technology** under **Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal**.

PUNEET HIMTHANI PROF. AMIT SAXENA Dr.RAJEEV ARYA

KAPIL RAGHUWANSHI Head (CSE/IT) Director

(Project Guide) TIEIT, Bhopal TIEIT, Bhopal

DECLARATION

I the undersigned solemnly declare that the project report **ZILA VIKAS MANCH** is based on my own work carried out during the course of our study under the supervision of **PUNEET HIMTHANI & KAPIL RAGHUWANSHI**.

I assert the statements made and conclusions drawn are an outcome of my research work. I further certify that

1. The work contained in the report is original and has been done by me under the general supervision of my supervisor.
2. The work has not been submitted to any other Institution for any other degree/diploma/certificate in this university or any other University of India or abroad.
3. We have followed the guidelines provided by the university in writing the report.
4. Whenever we have used materials (data, theoretical analysis, and text) from other sources, we have given due credit to them in the text of the report and giving their details in the references.

Submitted By:

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Mohd Alam Khan (0114IT161025)

Akanksha Sinha (0114IT161006)

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The surveyed institution **TRUBA INSTITUTE OF ENGINEERING & INFORMATION TECHNOLOGY** who helped and gave a lot of knowledge how to work. I would like to thank my group members and all my supporters to make this project successful.

Submitted By:

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ABSTRACTION

Collector was not able to solve the problem with new techniques and there was a communication gap between collector and students .So , This portal provides bridge between Collector and students and Collector could solve the problems with innovative ideas submitted by students in the form of solutions to Problem Statement. Zila Vikas Manch is an online portal , where collector or government authority posts their problems which are visible to IR(Institute Representative) of each institute .Institute representatives sends the problems to their respective groups of students. Students select the problems of their interest and submit the solution to the IR, which is then forward to government authority.

The main purpose of this project is to provide bridge between Collector and students and their ideas.Students can give their innovative ideas in the form of solutions and those solutions will be uploaded by Institute Representative after verification.Students can participate in solving Government Problems.Student will be awarded if the authority likes the solution of that student . Zila Vikas Manch is an online portal , where collector or government authority posts their problems which are visible to IR(Institute Representative) of each institute .Institute representatives sends the problems to their respective groups of students. Students select the problems of their interest and submit the solution to the IR, which is then forward to government authority.

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Chapter I

INTRODUCTION

1.1 Overview

- The main purpose of this project is to provide bridge between Collector and students and their ideas.
- Students can give their innovative ideas in the form of solutions and those solutions will be uploaded by Institute Representative after verification.
- Students can participate in solving Government Problems.
- Student will be awarded if the authority likes the solution of that student
- Zila Vikas Manch is an online portal, where collector or government authority posts their problems which are visible to IR(Institute Representative) of each institute .Institute representatives sends the problems to their respective groups of students. Students select the problems of their interest and submit the solution to the IR, which is then forward to government authority.

1.2 Problem Statement

Collector was not able to solve the problem with new techniques and there was a communication gap between collector and students .So , This portal provides bridge between Collector and students and Collector could solve the problems with innovative ideas submitted by students in the form of solutions to Problem Statement.

1.3 Objective of Project

Zila Vikas Manch is an online portal , where collector or government authority posts their problems which are visible to IR(Institute Representative) of each institute .Institute representatives sends the problems to their respective groups of students. Students select the problems of their interest and submit the solution to the IR, which is then forward to government authority.

1.4 Applications or Scope

- This portal can be accessed by Collector, Institute Representative, and Students.
- By using portal Collector can solve the problem with new innovative ideas submitted by students.
- This portal will reduce the stress of the collector.
- By using this portal, students can solve the problems faced by district Collector.
- This site is developed for addressing day to day problems of the society.
- Institute Representative acts as a mediator between Collector or Authority and students

Chapter II

LITERATURE SURVEY

This portal can be accessed by Collector, Institute Representative, and Students.

By using portal Collector can solve the problem with new innovative ideas submitted by students. This portal will reduce the stress of the collector. By using this portal, students can solve the problems faced by district Collector. This site is developed for addressing day to day problems of the society. Institute Representative acts as a mediator between Collector or Authority and students.

Hardware Specifications:

- **User Interface :**

- Software provides good graphical interface for the user , any user can operate on the system ,performing the requirement task such uploading the problems , selecting the problems and submitting the solution.

- **Hardware Interface :**

- Operating System : Windows 10
- Hard disk : 40GB
- RAM : 256 MB
- Processor : Intel Core i3

- **Software Interface :**

Java Language
Net Beans IDE 7.0.1
MySQL Server

USER Characteristics:

We have two levels of users

- **User module :**

It is also divided in three levels

- **Collector :**

He/She will upload the problems and selects the best solution uploaded by the Institute Representative .

- **Institute Representative :**

He/She forwards the problems to the students and verify the solutions submitted by the students before forwarding to Collector.

➤ **Student :**

He/She will select the problem of his/her interest and submit the solution to IR.

• **Administrator module :**

Admin : He will have the full control on the project and will keep records of different permissions given to Collector ,IR and Students.

We have used Waterfall Model for developing Zila Vikas Manch.

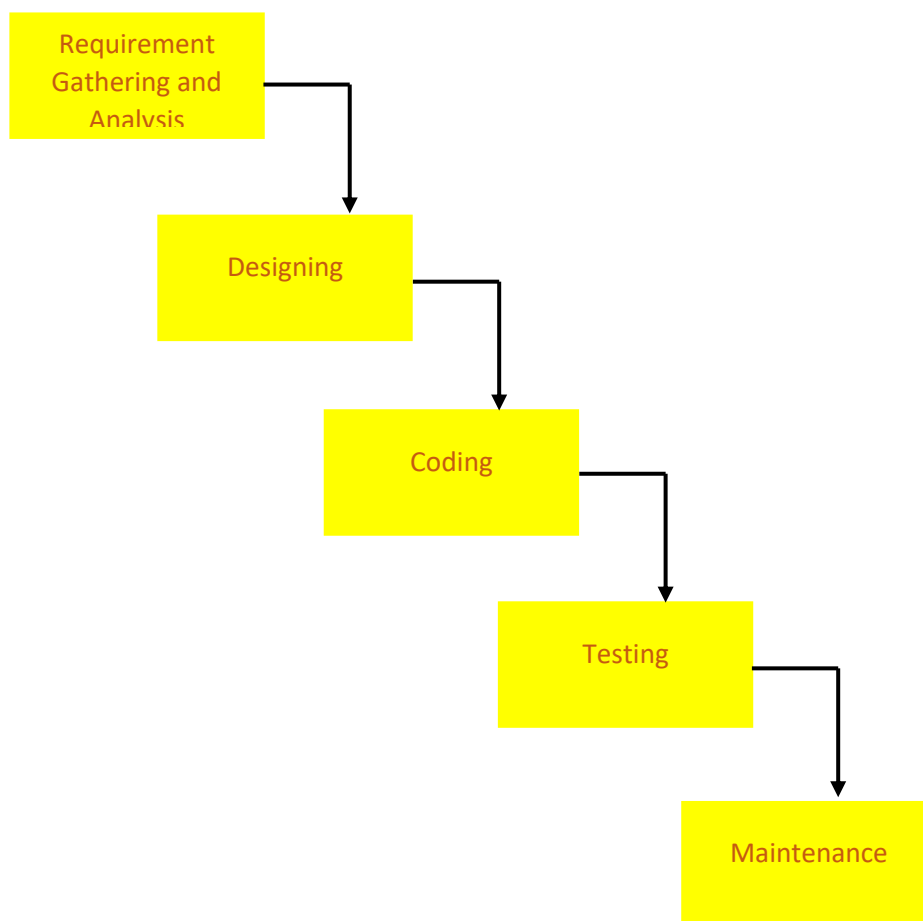


Fig 1 : Water fall Model

Key Features:

1. It is basic fundamental model of SDLC.
2. It is also known as linear sequential model.
It consist of five stages

Advantages:

1. It is simple and easy.

2. It is mostly used for developing small projects and software's.

Disadvantages:

1. No further updation.
2. Interaction with customer is done in first phase only.

Chapter III

METHODOLOGY

A methodology is a model, which project managers employ for the design, planning, implementation and achievement of their project objectives. There are different project management methodologies to benefit different projects

3.1 Project Platforms used in Project

❖ Net Beans IDE

Most developers recognize the NetBeans IDE as the original free Java IDE. It is that, and much more! The NetBeans IDE provides support for several languages (PHP, JavaFX, C/C++, JavaScript, etc.) and frameworks.

NetBeans is an open-source project dedicated to providing rock solid software development products (the NetBeans IDE and the NetBeans Platform) that address the needs of developers, users and the businesses who rely on NetBeans as a basis for their products; particularly, to enable them to develop these products quickly, efficiently and easily by leveraging the strengths of the Java platform and other relevant industry standards.

In June 2000, NetBeans was made open source by Sun Microsystems, which remained the project sponsor until January 2010 when Sun Microsystems became a subsidiary of Oracle. Please see our History section for more information.

The two base products, the NetBeans IDE and NetBeans Platform, are free for commercial and non-commercial use. The source code to both is available to anyone to reuse as they see fit, within the terms of use. The legal section contains information regarding licensing, copyright issues, privacy policy and terms of use.

The NetBeans project is also a vibrant community in which people from across the globe can ask questions, give advice, contribute and ultimately share in the success of our products. On the NetBeans mailing lists and forums, you will find posts from students, developers from top companies, and individuals looking to expand their skills.

❖ MySQL

.

MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language.

MySQL is free and open-source software under the terms of the GNU General Public License, and is also available under a variety of proprietary licenses. MySQL was owned and sponsored by the Swedish company MySQL AB, which was bought by Sun Microsystems (now Oracle Corporation). In 2010, when Oracle acquired Sun, Widenius forked the open-source MySQL project to create MariaDB.

❖ Servlets

A Java servlet processes or stores a Java class in Java EE that conforms to the Java Servlet API, a standard for implementing Java classes that respond to requests. Servlets could in principle communicate over any client-server protocol, but they are most often used with the HTTP. Thus "servlet" is often used as shorthand for "HTTP servlet". Thus, a software developer may use a servlet to add dynamic content to a server using the Java platform. The generated content is commonly HTML, but may be other data such as XML and more commonly, JSON. Servlets can

maintain state in session variables across many server transactions by using HTTP cookies, or URL mapping.

The Java servlet API has, to some extent, been superseded by two standard Java technologies for web services:

- the Java API for Restful Web Services (JAX-RS 2.0) useful for AJAX, JSON and REST services, and
- the Java API for XML Web Services (JAX-WS) useful for SOAP Web Services.

To deploy and run a servlet, a web container must be used. A web container (also known as a servlet container) is essentially the component of a web server that interacts with the Servlets. The web container is responsible for managing the lifecycle of Servlets, mapping a URL to a particular servlet and ensuring that the URL requester has the correct access rights.

The Servlet API, contained in the Java package hierarchy `javax.servlet`, defines the expected interactions of the web container and a servlet.

❖ CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content.

Separation of formatting and content also makes it feasible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speech-based browser or screen reader), and on Braille-based tactile devices. CSS also has rules for alternate formatting if the content is accessed on a mobile device.

❖ JAVA SCRIPT

JavaScript is one of the 3 languages all web developers must learn:

- HTML to define the content of web pages
- CSS to specify the layout of web page

Advantages of JavaScript

- **Speed.** Client-side JavaScript is very fast because it can be run immediately within the client-side browser. Unless outside resources are required, JavaScript is unhindered by network calls to a backend server. It also has no need to be compiled on the client side which gives it certain speed advantages (granted, adding some risk dependent on that quality of the code developed).
- **Simplicity.** JavaScript is relatively simple to learn and implement.
- **Popularity.** JavaScript is used everywhere in the web. The resources to learn JavaScript are numerous. StackOverflow and GitHub have many projects that are using Javascript and the language as a whole has gained a lot of traction in the industry in recent years especially.
- **Interoperability.** JavaScript plays nicely with other languages and can be used in a huge variety of applications. Unlike PHP or SSI scripts, JavaScript can be inserted into any web page regardless of the file extension. JavaScript can also be used inside scripts written in other languages such as Perl and PHP.

- Server Load. Being client-side reduces the demand on the website server.

Disadvantages of JavaScript

- Client-Side Security. Because the code executes on the users' computer, in some cases it can be exploited for malicious purposes. This is one reason some people choose to disable Javascript.
- Browser Support. JavaScript is sometimes interpreted differently by different browsers. Whereas server-side scripts will always produce the same output, client-side scripts can be a little unpredictable. Don't be overly concerned by this though - as long as you test your script in all the major browsers you should be safe. Also, there are services out there that will allow you to test your code automatically on check in of an update to make sure all browsers support your code.

❖ HTML

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as `` and `<input />` directly introduce content into the page. Other tags such as `<p>` surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.

3.2 Diagrams

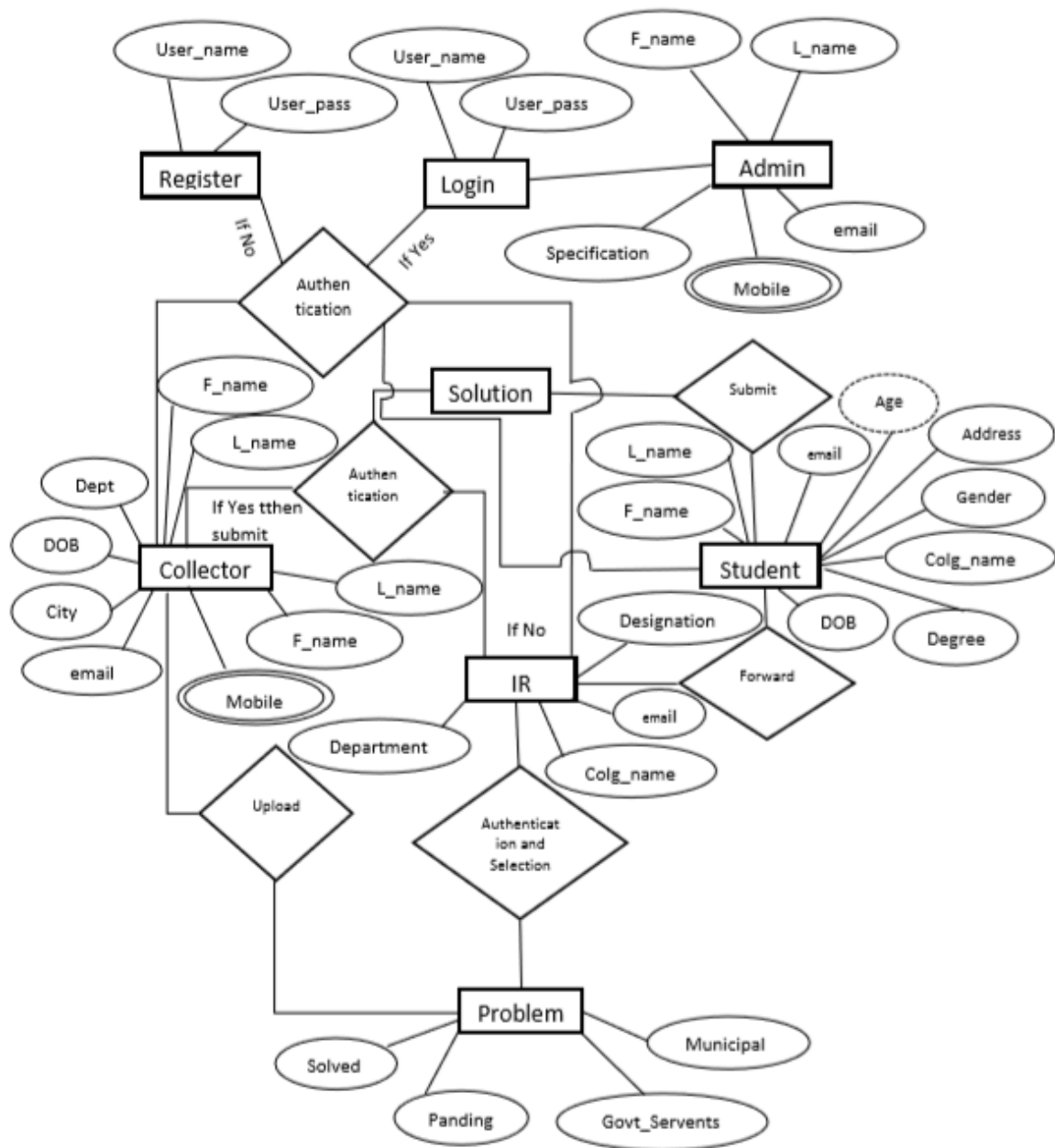
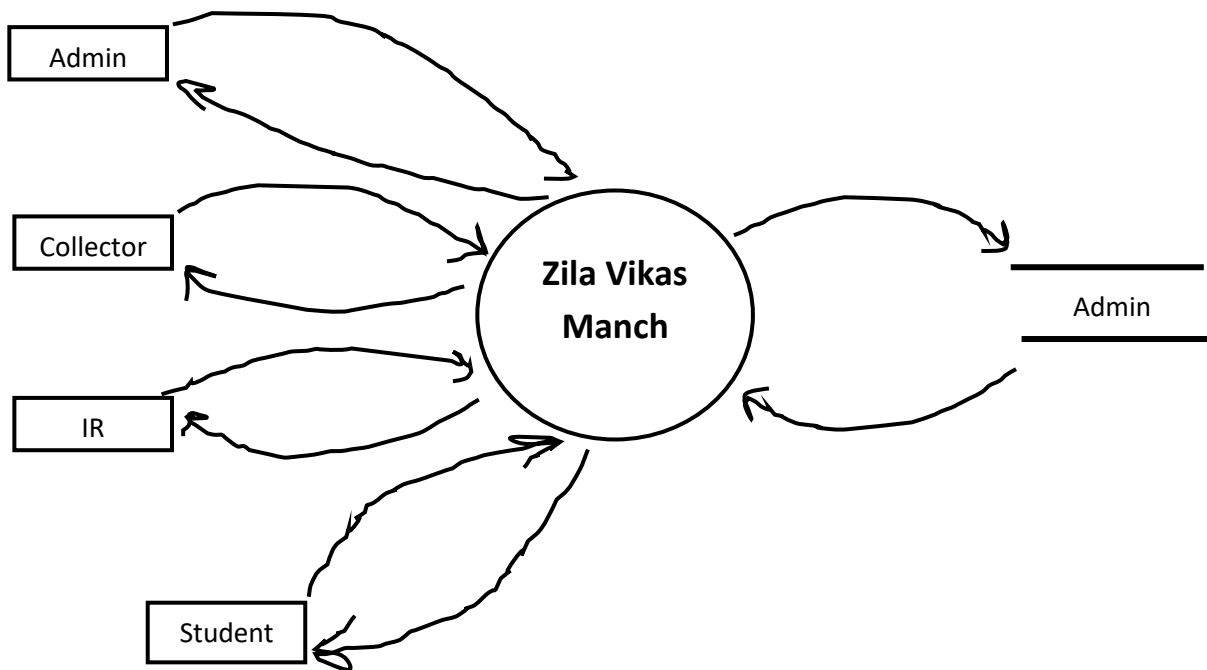


Fig 2 : ER Diagram

- DFD:



DFD Level 0

Fig 3.1



DFD Level 1

Chapter IV

IMPLEMENTATION

4.1 Coding:

AllStudentsForStudents.jsp

```
<%@page import="Bean.ShowAllStudentsBean"%>
<%@page import="java.util.ArrayList"%>
<%@page import="DAO.MethodDeclarations"%>
<%@page import="DAO.MethodOperation"%>
<%@page import="Bean.StudentSolutionsBean"%>
<%@page import="Bean.IRTableBean"%>
<%@page import="Bean.ProblemsUpByCABean"%>
<%@page import="java.util.ListIterator"%>

<%@page import="java.util.List"%>
<%@page import="java.sql.ResultSet"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-compatible" content = "IE-edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" type="text/css" href="bootstrap.min.css">

<script src="jquery-3.3.1.min.js"></script>

<script type = text/javascript src="bootstrap.min.js"></script>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.2.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
```

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.6/umd/popper.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.2.1/js/bootstrap.min.js"></script>

<jsp:include page="title.jsp" />

<link rel=stylesheet type = text/css href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">

<!--<link rel="stylesheet" type="text/css" href="https://cdn.datatables.net/1.10.19/css/jquery.dataTables.css">

<script type="text/javascript" charset="utf8" src="https://cdn.datatables.net/1.10.19/js/jquery.dataTables.js"></script>

-->

<link rel="stylesheet" type="text/css" href="http://ajax.aspnetcdn.com/ajax/jquery.dataTables/1.9.4/css/jquery.dataTables.css">

<script type="text/javascript" src="http://ajax.aspnetcdn.com/ajax/jQuery/jquery-1.8.2.min.js"></script>

<script type="text/javascript" src="http://ajax.aspnetcdn.com/ajax/jquery.dataTables/1.9.4/jquery.dataTables.min.js"></script>

<style>

```
#frame_size{
    width: 500px;
    height: 500px;
```

```
}

.uploaded_problems_sticky{

    position:sticky;

    top:0;


}

</style>


<style>


.collapsible_button1{

    background-color:#112d32;

    color:white

}

.active, .collapsible_button1:hover {

    background-color: #1b474f;

    // color: lightgreen;

}


.collapsible_button1:after{

    content: '\002B';

    font-size:60px;

    color:white;

}
```

```
.active:after{
  content: "\2212";
}

@media screen and (max-width:1600px){
  div.card_width{
    width:90%;
  }
  div.font_size{
    font-size:20px;
  }
  table.table_fontsize{
    font-size:3vw;
  }
}

@media screen and (min-width:1601px){
  div.card_width{
    width:60%;
  }
  div.font_size{
    font-size:30px;
  }
  table.table_fontsize{
    font-size:1vw;
  }
}

</style>
```

</head>

<body>

<%

response.setHeader("Cache-Control","no-cache,no-store,must-revalidate");

if(session.getAttribute("aadharidFromStudentHome")!=null &&
session.getAttribute("passwordFromStudentHome")!=null){

%>

<jsp:include page="studentNavbar.jsp" />

<div class="container-fluid" style = "margin-top : 95px;" >

<div class="row" >

<div class="col-lg-12" style="height:899px;background-color: #88bdbc;overflow-y:scroll;padding:0px;">

<div class="uploaded_problems_sticky" style="z-index:1;margin-top:40px;margin-bottom:40px;width:100%;" >


```
<div class="card shadow-lg" style="background-color:rgba(23,67,88,0.5);color:white;padding:40px;" >
```

```
<h2 align="center"><i>All Students</i></h2>
```

```
</div>
```

```
</div>
```

```
<%
```

```
MethodDeclarations md=new MethodOperation();
```

```
List lisacapwirt = md.selectAllStudents();
```

```
if (lisacapwirt != null) {
```

```
    ListIterator lit = lisacapwirt.listIterator();
```

```
    while (lit.hasNext()) {
```

```
        ShowAllStudentsBean sasb = (ShowAllStudentsBean) lit.next();
```

```
%>
```

```
<!--
```

```
<button data-toggle="collapse" data-target="#demo" >
```

</button>

-->

<div align="center">

<div class="card shadow-lg card_width" align="center" style="background-color:#f3f8f8;padding-left:20px;padding-right:0px;font-size:20px;margin-top:30px;border:none;padding-top:0px;padding-bottom:0px;" >

<div class="card-body " >

<table align="left" width="60%">

<tr><td ></td><td ><div align="center" class="font_size"><%=sasb.getUsername()%>
<%=sasb.getCollege()%></div> </td></tr>

</table>

<div class="card collapsible_button1 rounded-square" style="width:10%;cursor:pointer;max-height:100px;margin-top:70px;" data-toggle="collapse" data-target="#IndividualStudent<%=sasb.getAadharid()%>" ></div>

</div>

</div>

<div class="collapse" id="IndividualStudent<%=sasb.getAadharid()%>">

<div class="card card_width" align="center" style="background-color:#f3f8f8;padding-left:20px;padding-right:20px;font-size:20px;min-height:450px;margin-bottom:40px;border:none;" >

<div class="card-body">

<div class="row">

<table style="margin-top:0px;width:90%" align="center" class="table_fontsize">

<tr><td><hr>Second Member</td><td><hr><%=sasb.getSecond_m()%></td></tr>

<tr><td>Third Member</td><td><%=sasb.getThird_m()%></td></tr>

<tr><td>Institute
Representative</td><td><%=md.getUserName(sasb.getReferenceid())%></td></tr>

<tr><td>Email Address</td><td><%=sasb.getEmailadd()%></td></tr>

<tr><td>Contact No.</td><td><%=sasb.getContactno()%></td></tr>

<tr><td>Address</td><td><%=sasb.getAddress()%></td></tr>

<tr><td>City</td><td><%=sasb.getCity()%></td></tr>

```
<tr><td>State</td><td><%=sasb.getState()%></td></tr>
```

```
</table>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<%
```

```
}
```

```
}else if(lisacapwirt==null){
```

```
%>
```

```
<div align="center">
```

```
<div class="card shadow-lg" align="center" style="background-color:white;padding-left:20px;padding-right:20px;font-size:20px;min-height:450px;width:80%;margin-top:80px;" >
```

```
<div class="card-body">
```

```
<span ><i class="fa fa-folder-open fa-10x " style="color:lightgrey;margin-top:60px;"></i></span>
```

```
<h1 align="center" style="color:lightgrey;"> No students to show !! </h1>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<%
```

```
}
```

```
%>
```

```
<script>
```

```
var coll = document.getElementsByClassName("collapsible_button1");
```

```
var i;
```

```
for (i = 0; i < coll.length; i++) {
```

```
  coll[i].addEventListener("click", function() {
```

```
    this.classList.toggle("active");
```

```
    var content = this.nextElementSibling;
```

```
    if (content.style.maxHeight){
```

```
      content.style.maxHeight = null;
```

```
    } else {
```

```
      content.style.maxHeight = content.scrollHeight + "px";
```

```
    }
```

```
  });
```

```
}
```

```
</script>
```

```
</div>
```

</div>

</div>

<%

}else{

response.sendRedirect("StudentLogin.jsp?value=0");

}

%>

</body>

</html>

Chapter VI

USER MANUAL

6.1 Software Requirement:

➤ **Java Language :**

Java is a general-purpose programming language that is class-based, object-oriented, and specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "write once, run anywhere" (WORA), meaning that compiled Java code can run on all platforms that support Java without the need for recompilation. Java applications are typically compiled to "bytecode" that can run on any Java virtual machine (JVM) regardless of the underlying computer architecture. The syntax of Java is similar to C and C++, but it has fewer low-level facilities than either of them. As of 2018, Java was according to GitHub one of the most popular programming languages in use, particularly for client-server web applications, with a reported 9 million developers.

Java was originally developed by James Gosling at Sun Microsystems (which has since been acquired by Oracle) and released in 1995 as a core component of Sun Microsystems' Java platform. The original and reference implementation Java compilers, virtual machines, and class libraries were originally released by Sun under proprietary licenses. As of May 2007, in compliance with the specifications of the Java Community Process, Sun had relicensed most of its Java technologies under the GNU General Public License. Meanwhile, others have developed alternative implementations of these Sun technologies, such as the GNU Compiler for Java (bytecode compiler), GNU Classpath (standard libraries), and IcedTea-Web (browser plugin for applets).

The latest version is Java SE 12, released in March 2019. Since Java 9 is no longer supported, Oracle advises its users to "immediately transition" to Java 12. Oracle released the last public update for the legacy Java 8 LTS, which is free for commercial use, in January 2019. Java 8 will be supported with public updates for personal use up to at least December 2020. Oracle and others "highly recommend that you uninstall older versions of Java" because of serious risks due to unresolved security issues. Oracle extended support for Java 6 ended in December 2018.

➤ **Net Beans IDE 7.0.1:**

The NetBeans IDE is an award-winning integrated development environment available for Windows, Mac, Linux, and Solaris. The NetBeans project consists of an open-source IDE and an application platform that enable developers to rapidly create web, enterprise, desktop, and mobile applications using the Java platform, as well as PHP, JavaScript and Ajax, Groovy and Grails, and C/C++.

➤ **MySQL Server:**

MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founders Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language.

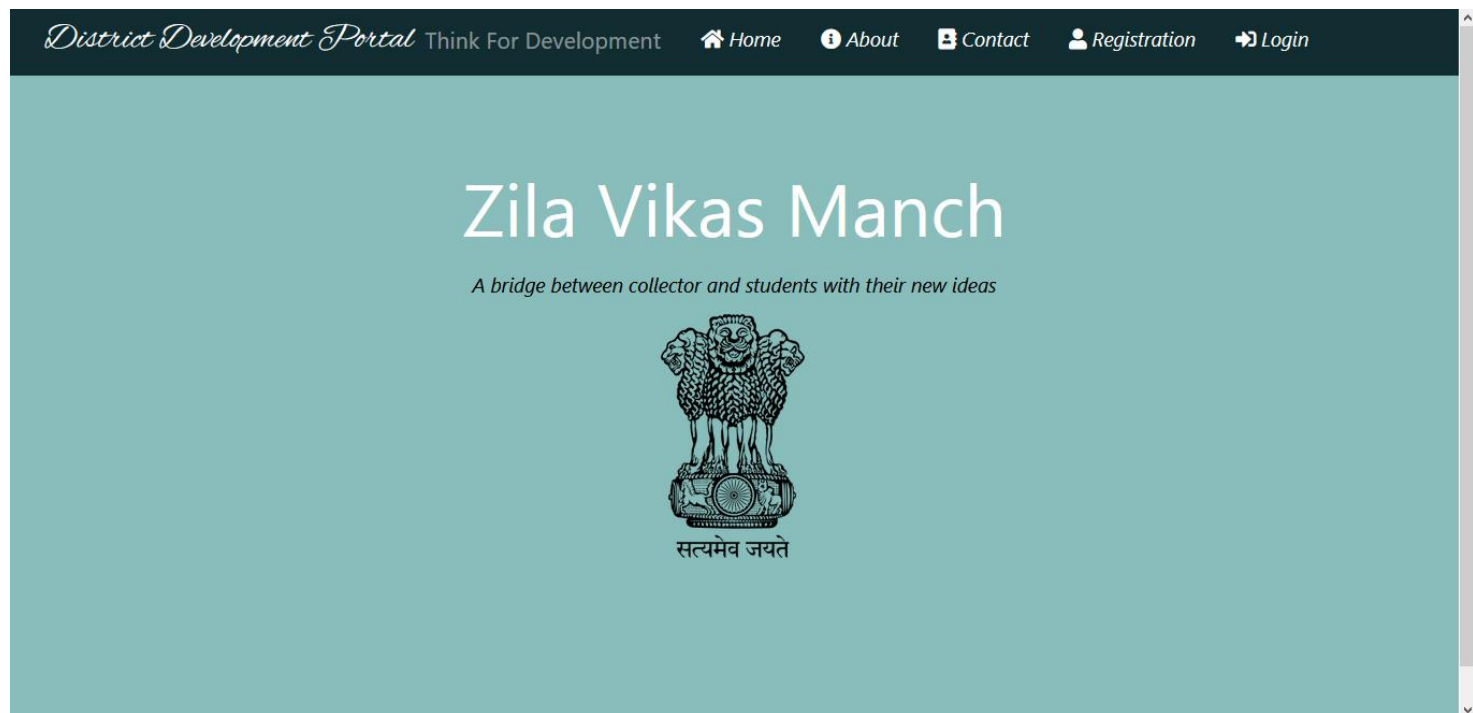
MySQL is free and open-source software under the terms of the GNU General Public License, and is also available under a variety of proprietary licenses. MySQL was owned and sponsored by the Swedish company MySQL AB, which was bought by Sun Microsystems (now Oracle Corporation). In 2010, when Oracle acquired Sun, Widenius forked the open-source MySQL project to create MariaDB.

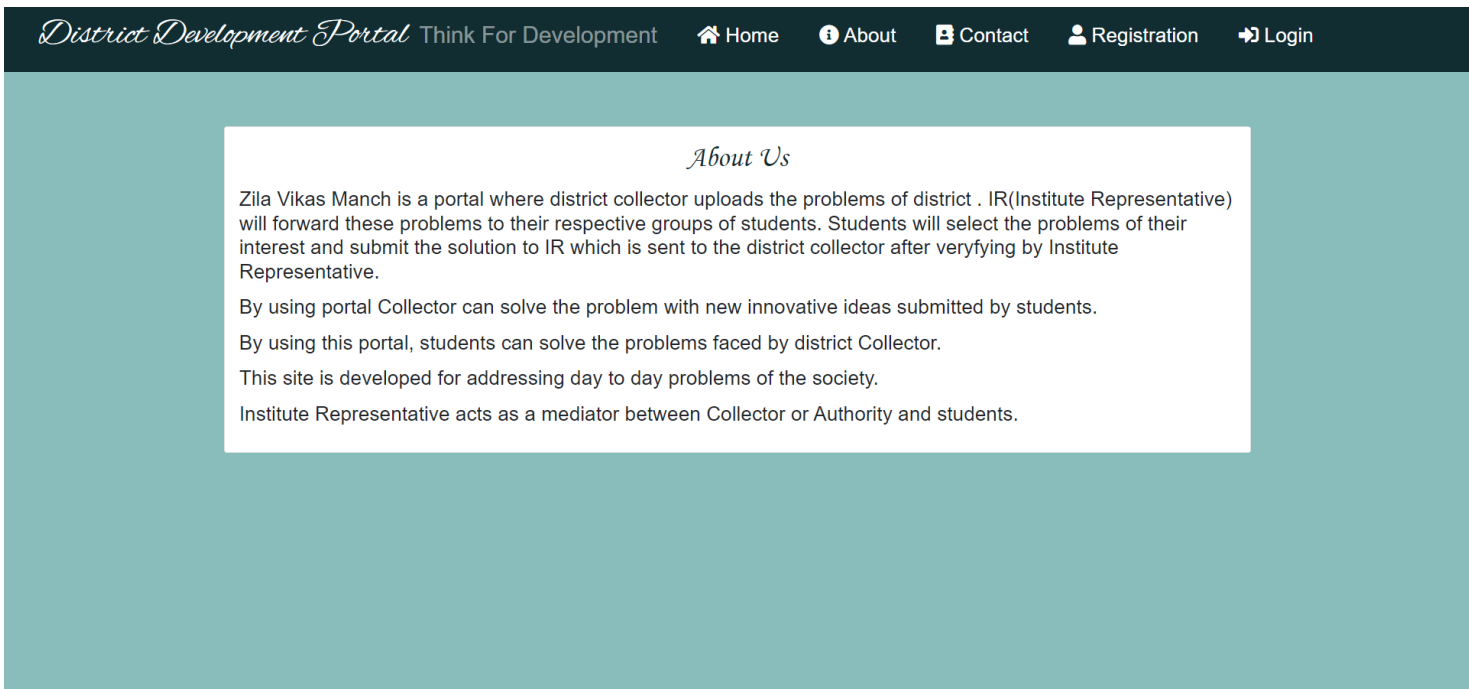
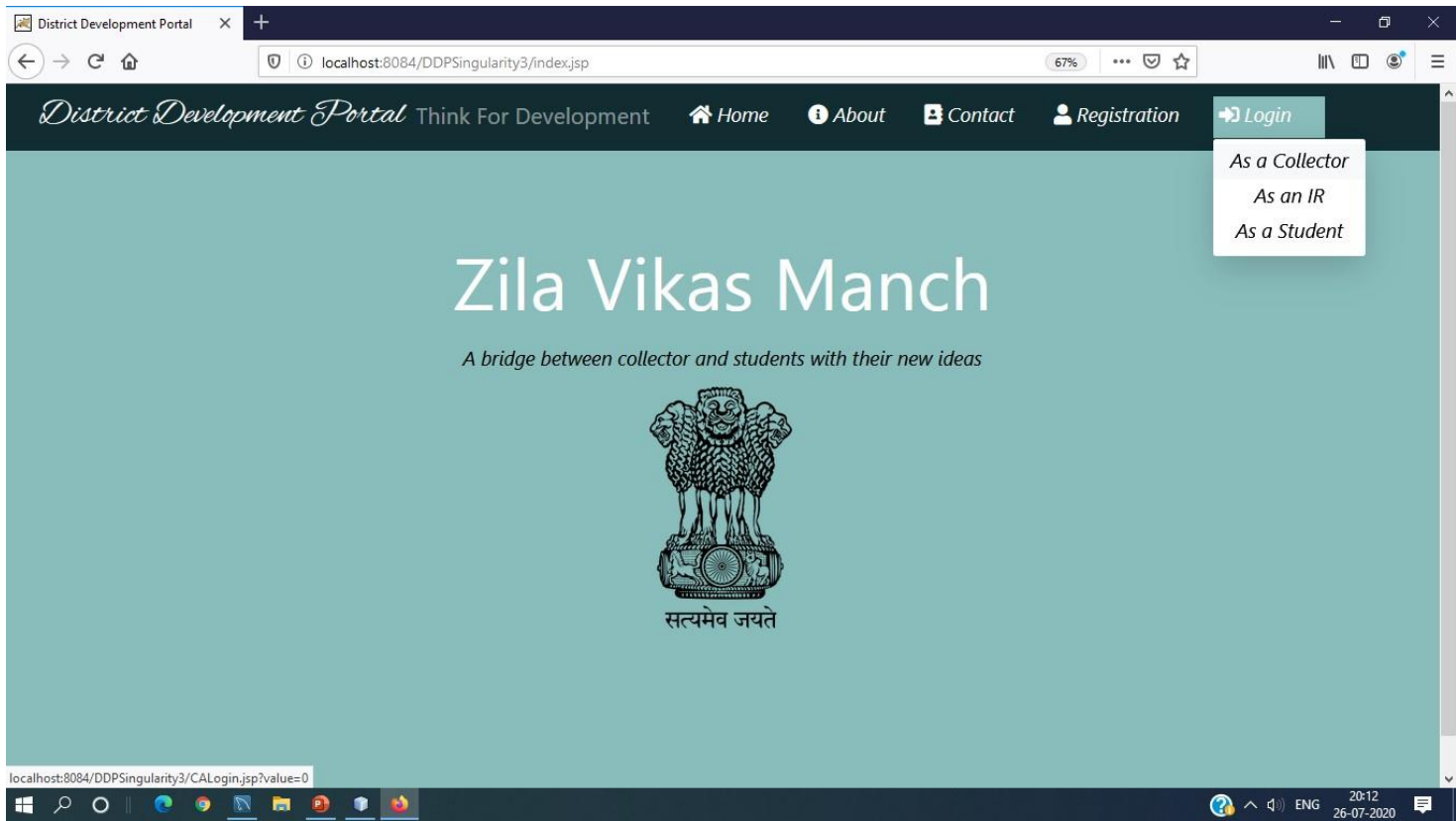
MySQL is a component of the LAMP web application software stack (and others), which is an acronym for Linux, Apache, MySQL, Perl/PHP/Python. MySQL is used by many database-driven web applications, including Drupal, Joomla, phpBB, and WordPress. MySQL is also used by many popular websites, including Facebook.

6.2 Hardware Requirement:

- ❖ Operating System : Windows 10
- ❖ Hard disk : 40GB
- ❖ RAM : 256 MB
- ❖ Processor : Intel Core i3

6.3 Steps to RUN the project:





SignUp

Aadhar Number *

200000000000

Username*

Prof. Amit Saxena

Designation *

Head of CS and IT Department

Email ID *

amitsaxena333@gmail.com

Contact Number *

9988200000

College *

TIEIT

Address *

Lalqabati

City *

Bhopal

State *

Madhya Pradesh

Password*

Confirm Password*

City *

Bhopal

State *

Madhya Pradesh

Password*

Amit123

Confirm Password*

Amit123



Upload Photo

Submit



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Chapter VII

CONCLUTION & FUTURE SCOPE

7.1 Conclusion:

The proposed system is designed to provide fast response serving ,to solve real time problems the improvement of the efficiency and design cost was considered . Using this system design the efficiency can be easily enhanced for many applications .Complexity reductions that involves with the time and space increase the efficiency of the overall system used .

It would be fruitul for collector and would help in making decision for district development better. And students can take part in district development.