



A Project

Report On

BUG Detector System

By

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B.TECH

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EduBridge

(School of coding)

ABSTRACT

Bug-Detector System mechanism is employed only in some of the large software development houses. Most of the others never bothered with bug tracking at all, and instead simply relied on shared lists and email to monitor the status of defects. This procedure is error-prone and tends to cause those bugs judged least significant by developers to be dropped or ignored.

Bug-Tracking System is an ideal solution to track the bugs of a product, solution or an application. Bug Tracking System allows individual or groups of developers to keep track of outstanding bugs in their product effectively. This can also be called as Defect Tracking System.

The Bug Tracking System can dramatically increase the productivity and accountability of individual employees by providing a documented work flow and positive feedback for good performance.

Features:

- Product and Component based
- Creating & Changing Bugs at ease
- Query Bug List to any depth
- Reporting & Charting in more comprehensive way
- User Accounts to control the access and maintain security
- Simple Status & Resolutions
- Multi-level Priorities & Severities
- Targets & Milestones for guiding the programmers
- Attachments & Additional Comments for more information
- Robust database back-end.

I developed this Application in Java, JSP, Servlets and My SQL. It's a web-based project so I have used HTML, CSS.

Software Requirements:

Front End: Java/J2EE Technologies (Servlet, JSP), HTML, CSS.

Back End: My SQL workbench 5.6.23

Middleware/Server: Apache Tomcat v 7.0 IDE: Eclipse IDE for Java EE Developer

Browser: Best result on Google Chrome

Operating System: Windows 7.

Data Base:

Create database bts;

Use bts;

DROP TABLE IF EXISTS `adminresponse`;

CREATE TABLE `adminresponse` (

`f1` varchar (45) NOT NULL default "",

`Message` varchar (45) default NULL,

`Reassignto` varchar (45) default NULL,

`New status` varchar (45) default NULL,

`Tested` varchar (45) default NULL,

PRIMARY KEY (`f1`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

ALTER TABLE `adminresponse` DISABLE KEYS;

```
.  
  
CREATE TABLE `assign_project` (  
  `Sno` int (10) unsigned NOT NULL auto_increment,  
  `Project name` varchar (45) NOT NULL default '',  
  `Userid` varchar (45) NOT NULL default '',  
  `Role` varchar (45) NOT NULL default '',  
  PRIMARY KEY (`sno`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `bug_report` (  
  `bugno` int(10) unsigned NOT NULL auto_increment,  
  `bug_name` varchar (45) NOT NULL default '',  
  `bug_type` varchar (45) NOT NULL default '',  
  `bug_level` varchar (45) NOT NULL default '',  
  `Priority` varchar (45) NOT NULL default '',  
  `Pname` varchar (45) NOT NULL default '',  
  `Tester code` varchar (45) NOT NULL default '',  
  `Bugdate` varchar (45) NOT NULL default '',  
  `e_code` varchar (45) NOT NULL default '',  
  `Status` varchar (45) NOT NULL default '',  
  `bug_rectifieddate` varchar (45) NOT NULL default '',  
  `status1` varchar (45) NOT NULL default '',  
  PRIMARY KEY (`bugno`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `bug_solution` (  
  `Bugno` int (10) unsigned NOT NULL default '0',  
  `e_code` varchar (45) NOT NULL default '',
```

```
.  
  
`Solution` varchar (100) NOT NULL default "",  
`Date` varchar (45) NOT NULL default ""  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
DROP TABLE IF EXISTS `department_details`;  
CREATE TABLE `department_details` (  
  `dept_no` int (10) unsigned NOT NULL auto_increment,  
  `dept_name` varchar (45) NOT NULL default "",  
  `dept_loc` varchar (45) NOT NULL default "",  
  PRIMARY KEY (`dept_no`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
DROP TABLE IF EXISTS `employee`;  
CREATE TABLE `employee` (  
  `Username` varchar (45) NOT NULL default "",  
  `Userid` varchar (45) default NULL,  
  `Password` varchar (45) default NULL,  
  `Email` varchar (45) default NULL,  
  `Address` varchar (45) default NULL,  
  `Phno` varchar (45) default NULL,  
  `Status` varchar (45) default NULL,  
  PRIMARY KEY (`username`)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
-- Dumping data for table `employee`
```

```
--
```

```
UNLOCK TABLES;
```

```
ALTER TABLE `employee` ENABLE KEYS
```

```

DROP TABLE IF EXISTS `employee_details`;

CREATE TABLE `employee_details` (
  `UserID` int (10) unsigned NOT NULL auto_increment,
  `Fame` varchar (45) NOT NULL default "",
  `Lname` varchar (45) NOT NULL default "",
  `Gender` varchar (45) NOT NULL default "",
  `DOB` varchar (45) NOT NULL default "",
  `Qualification` varchar (45) NOT NULL default "",
  `Address` varchar (45) NOT NULL default "",
  `Phoneno` varchar (45) NOT NULL default '0',
  `Mobilenno` varchar (45) NOT NULL default '0',
  `Emailid` varchar (45) NOT NULL default "",
  `Doj` varchar (45) NOT NULL default "",
  `Designation` varchar (45) NOT NULL default "",
  `Marital Status` varchar (45) NOT NULL default "",
  `Password` varchar (45) NOT NULL default "",
  `Hint question` varchar (45) NOT NULL default "",
  `Hint answer` varchar (45) NOT NULL default "",
  PRIMARY KEY (`UserID`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```

```

DROP TABLE IF EXISTS `employee request`;

CREATE TABLE `employee request` (
  `f1` varchar (45) NOT NULL default "",
  `To` varchar (45) default NULL,
  `From` varchar (45) default NULL,
  `Subject` varchar (45) default NULL,

```

`Message` varchar (45) default NULL,
`Tested` varchar (45) default NULL,
PRIMARY KEY (`f1`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

DROP TABLE IF EXISTS `project_details`;
CREATE TABLE `project_details` (
`project_no` int (10) unsigned NOT NULL auto_increment,
`project_name` varchar (45) NOT NULL default "",
`project_description` varchar (1000) NOT NULL default "",
`Sdate` varchar (45) NOT NULL default "",
`Duration` int (10) unsigned NOT NULL default "",
`Client name` varchar (45) NOT NULL default "",
`Client address` varchar (45) NOT NULL default "",
`Clientphone` varchar (45) NOT NULL default "",
`Client email` varchar (45) NOT NULL default "",
`Project lead` varchar (45) NOT NULL default "",
`Deptname` varchar (45) NOT NULL default "",
PRIMARY KEY (`project_no`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

DELETE FROM project_details WHERE project_no=18;
UNLOCK TABLES;
ALTER TABLE `project_details` ENABLE KEYS;
DROP TABLE IF EXISTS `Edit_profile`;

CREATE TABLE `Edit_profile` (

```

`UserID` int (10) unsigned NOT NULL auto_increment,
`Fname` varchar (45) NOT NULL default '',
`Lname` varchar (45) NOT NULL default '',
`Gender` varchar (45) NOT NULL default '',
`DOB` varchar (45) NOT NULL default '',
`Qualification` varchar (45) NOT NULL default '',
`Address` varchar (45) NOT NULL default '',
`Phoneno` varchar (45) NOT NULL default '0',
`Mobilenno` varchar (45) NOT NULL default '0',
`Emailed` varchar (45) NOT NULL default '',
`Doj` varchar (45) NOT NULL default '',
`Designation` varchar (45) NOT NULL default '',
`Marital Status` varchar (45) NOT NULL default '',
`Password` varchar (45) NOT NULL default '',
`Hint question` varchar (45) NOT NULL default '',
`Hintanswer` varchar (45) NOT NULL default '',
PRIMARY KEY (`UserID`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--

-- Dumping data for table `Edit_profile`

--

ALTER TABLE `Edit__profile` DISABLE KEYS ;
LOCK TABLES `Edit_profile` WRITE;

Select*from bts.Edit_profile;

ALTER TABLE `Edit profile` ENABLE KEYS;

```


Select*from bts.Edit_profile;

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Tester Home Page

Developer home Page

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Admin View Department

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1. Introduction

1.1 Purpose

The main objective of this system is develop flawless system, which is access real time information from anywhere in the world, 24 hours a day 365 days in a year. Another aim is that manage hundred of projects in multiple locations or just a few. The another main objective of this system is track the all the defects or bugs in the project and make the project user friendly and bugs free system.

1.2 Existing System

In any software development bugs are inevitable. Let it be in any kind of product bugs arise at any phase of development. One has to take a great care in the proper maintenance and resolution of the bugs. In the Existing system the bugs are not properly maintained and they are simply relied on shared lists and email to monitor the bugs.

In this type of system it becomes difficult to track a bug if a bug is over looked then it may cause tremendous errors in the next phase and can improve the cost of project whatever necessary effort spent on the bug maintenance may not be worthy. So bug history has to be maintained properly. And there is no efficient search technique.

One has to search the whole database for the details of particular bug which might have occurred sometime earlier. It is both time consuming and error prone. And it is very difficult to share the bug among several users as there is no proper maintenance of the bugs. In order to have an efficient product bugs must be maintained properly and should be resolved in time both to reduce time and money spent on the development.

1.3 Proposed System

- This system maintains the products, Bugs and bug tracking. It has advantage of maintaining bug history it stores all the details from bug origin to bug resolution.
- Each product can have versions for easy maintenance of the product and all the user of the product is stored in the database. It provides the advantage of maintaining users to the bugs and resolutions provided by them.
- Our System provides the searching based on status, priority, and operating system.
- It provides with user and bug hierarchy, which would be helpful in knowing the relation between bugs and users allotted to the bug.
- It is provided with a fully authenticated system with password encryption. And has the facility for storing attachments for a bug.

- One can keep a track of the bug in a product with much lower cost and effort.
- The most advantage of this system is maintaining log records which are helpful in knowing any errors or misuse of the system by other users.

2. Software and Hardware Requirements

2.1 Software Requirements

A set of programs associated with the operation of a computer is called software. Software is the part of the computer system which enables the user to interact with several physical hardware devices.

The minimum software requirement specifications for developing this project are as follows:

Designing frontend	:	JSP and Servlets
Backend	:	My SQL
Scripting	:	Java Script
UML	:	Rational Rose
IDE	:	My Eclipse
Web Server	:	Tomcat

2.2 Hardware Requirement Specification

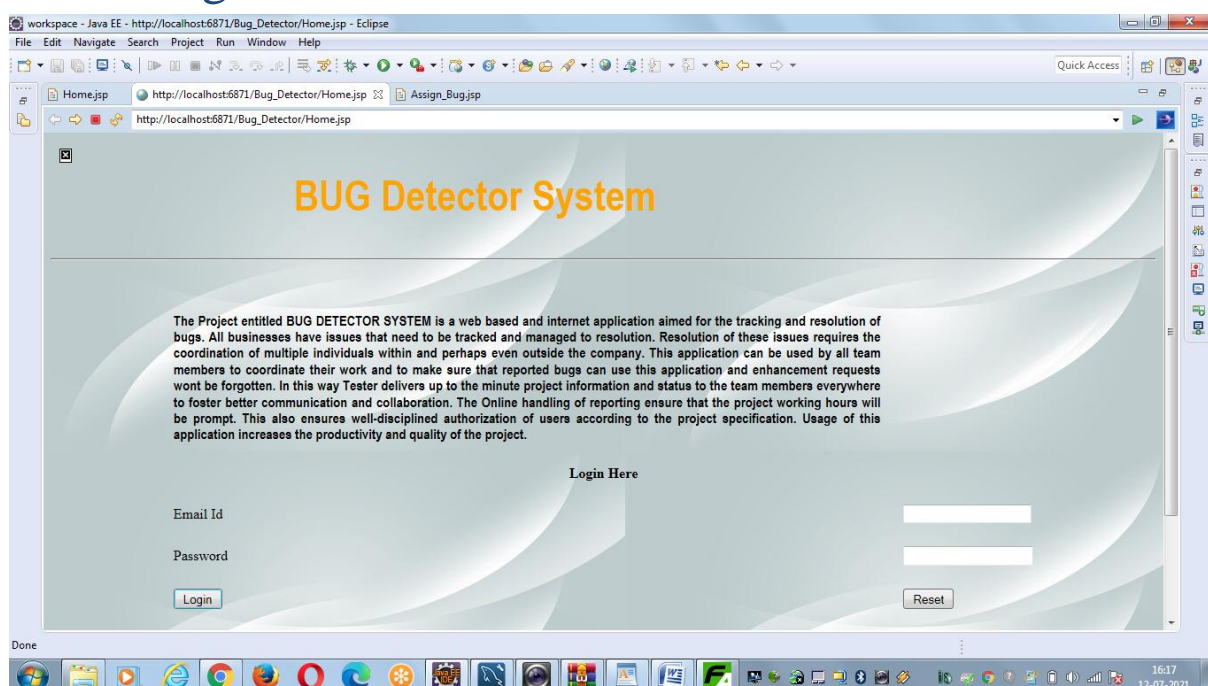
The Collection of internal electronic circuits and external physical devices used in building a computer is called Hardware.

The minimum hardware requirement specification for developing this project is as follows:

Processor	:	Pentium IV
RAM	:	512MB RAM
Hard Disk	:	10GB

Screen Shot Images:

Home Page:



Registration Form:

workspace - Java - http://localhost:6871/Bug_Detector/Home.jsp - Eclipse

File Edit Navigate Search Project Run Window Help

Home.jsp http://localhost:6871/Bug_Detector/Register.jsp

REGISTRATION FORM

UserID* 4

Fname* Sanjay

Lname* Yadav

Gender: Male

DOB 10-04-2021

Qualification B.Tech

Address Kadapa

PhoneNo 123456

MobileNo 7981933898

EmailID sanjay@gmail.com

DOJ 16-07-2021

Designation Developer

MaritalStatus Unmarried

Password *****

Hint Question What is your favourite food?

Hint Answer Biryani

Register Reset

Admin Page:

workspace - Java - http://localhost:6871/Bug_Detector/Home.jsp - Eclipse

File Edit Navigate Search Project Run Window Help

Home.jsp http://localhost:8080/Bug_Detector/Admin%20Home.jsp

BUG Detector System

[Department](#)

[ViewDepartment](#)

[Employee](#)

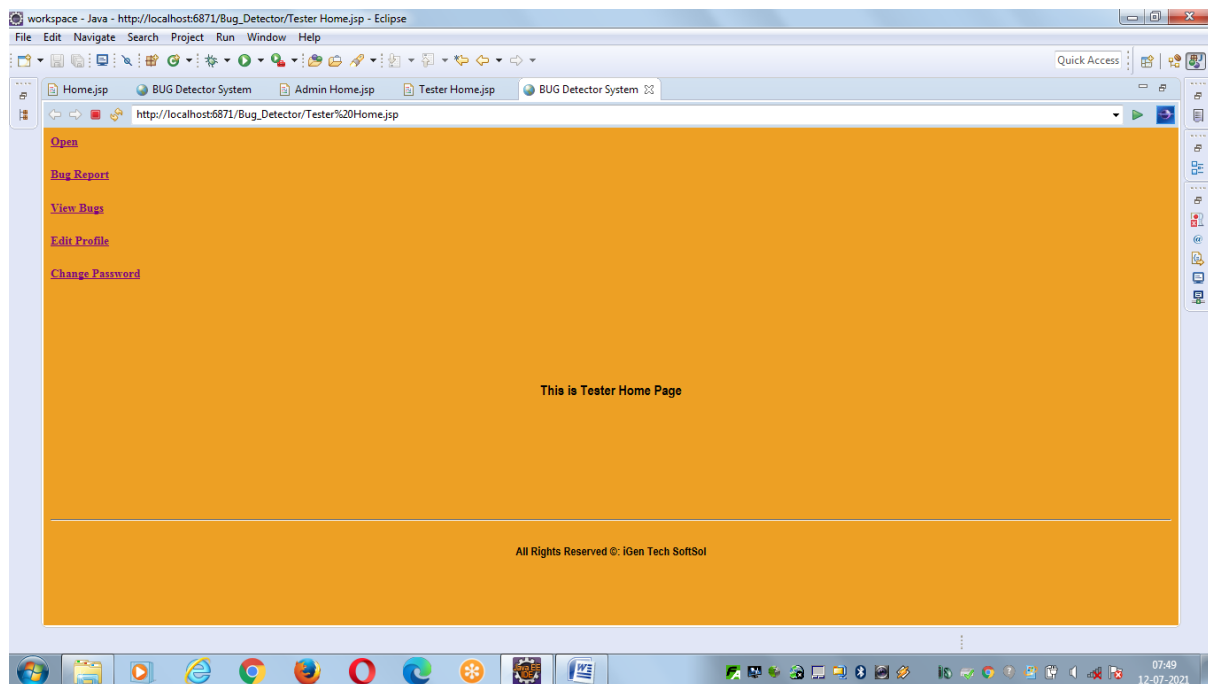
[permission](#)

[project](#)

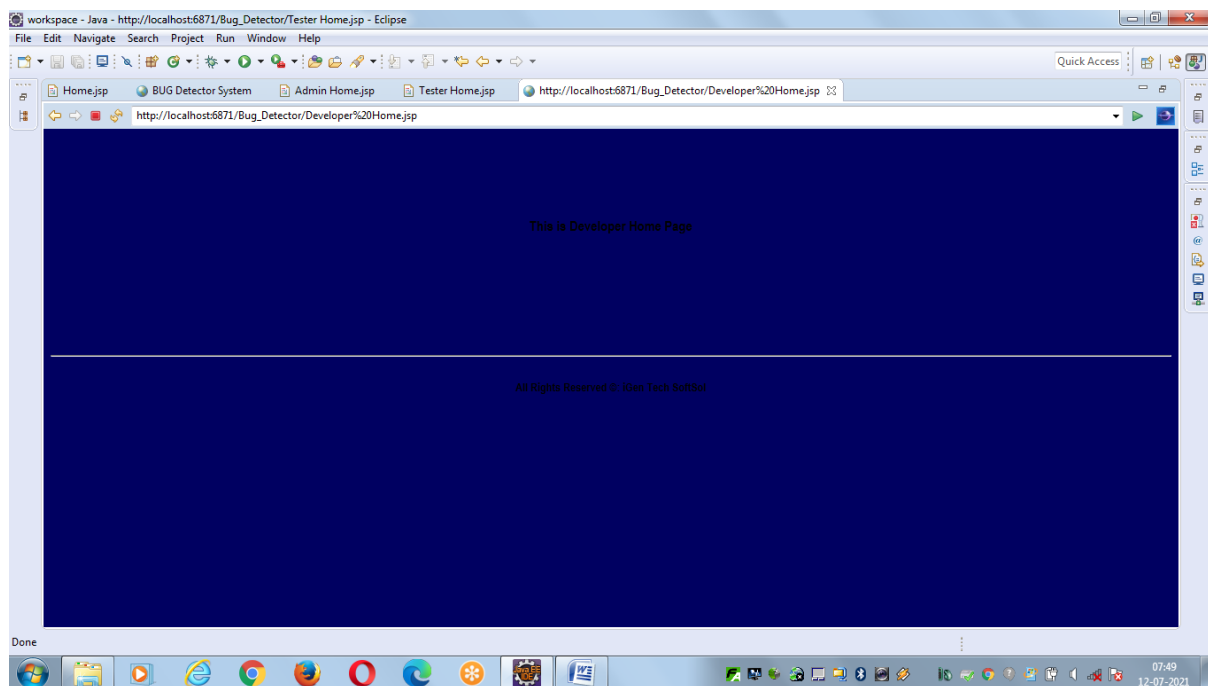
[project details](#)

This is Admin Page

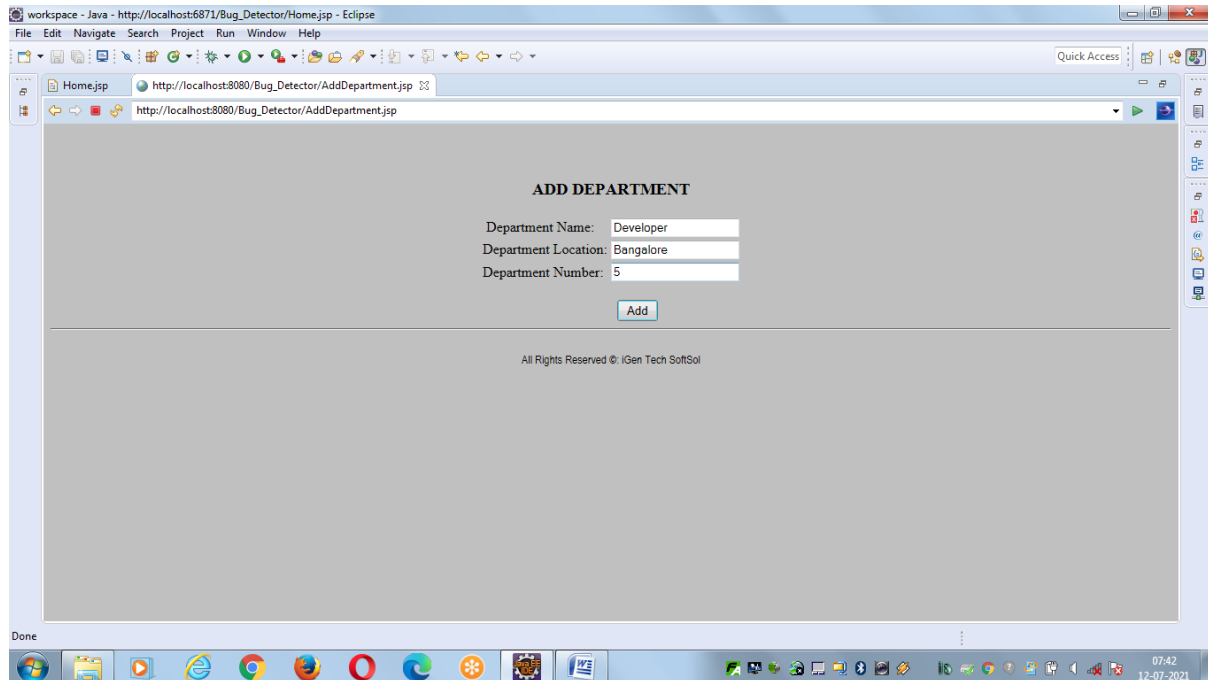
Tester Home Page:



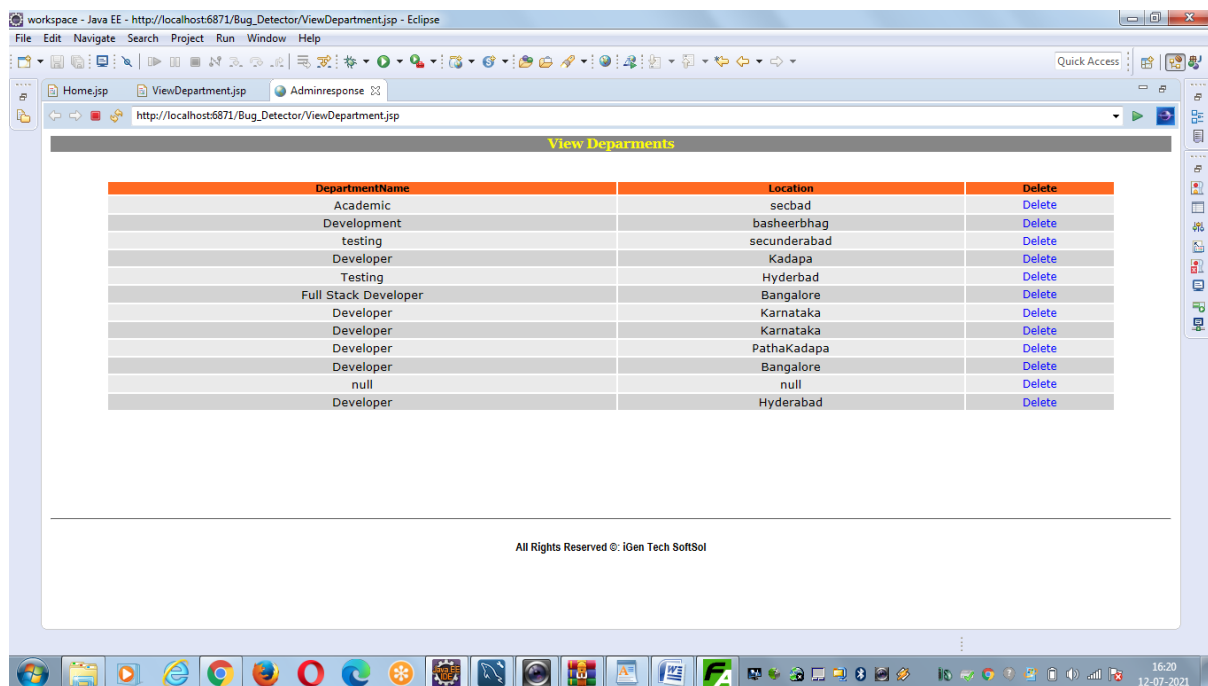
Developer Home Page:



Add Department:



View Department:



Admin View Employee:

EmployeeName	Gender	Date Of Birth	Qualification	Address	PhoneNo	MobileNo	EmailId	Date Of Joining	Role	Delete
mariswathi	FeMale	16-01-1985	mca	Suraram Colony	65196257	9985959223	swathi@yahoo.com	16-02-2009	Developer	Delete
mariRam	Male	14-07-1982	misca	jeedimetla	65196257	93901235219	reddiram14@gmail.com	16-02-2009	Developer	Delete
vankaviswanath	Male	19-04-1981	mca	jeedimetla	65196257	9247365652	haskj	17-02-2009	Developer	Delete
marivenu	Male	12-06-1986	bca	jeedimetla	65196257	9985959223	venu@yahoo.com	23-02-2009	Developer	Delete
venkataramana	Male	12-02-1985	mca	shdgkj	65196257	9985959223	sdhjjaj	787897	Tester	Delete
venkataramana	Male	12-02-1985	mca	shdgkj	65196257	9985959223	sdhjjaj	2009-04-04	Developer	Delete
jyothireddy	FeMale	12-03-2009	mca	sdfs	3242	dsfaf	dsfa	dsaf	Manager	Delete
hsdghjjsdg	FeMale	29-5-2009	adfgdg	fdg	1234	1234	gjsq	30-5-2009	Manager	Delete
phanipani	Male	19-5-2009	sdfs	sdf	787263487	718972319	kjhdakh	2-5-2009	Developer	Delete
harithaharitha	Male	28-5-2009	sgdhjg	grhgr	654646	4535465	sfgsf	14-5-2009	Developer	Delete
sahasraReddy	FeMale	19-4-1984	mca	Secunderabad	65196257	9985959223	sahasra@gmail.com	1-6-2009	Developer	Delete
SanjeevaRayudu		10-05-1999	B.Tech	Kadapa	123456	7981933898	sanjeevrp99@gmail.com	12-04-2015		Delete
SureshBabu		12-06-1987	MCA	Kadapa	123456	7981933898	suresh@gmail.com	20-04-2000		Delete
SureshBabu		12-06-1987	MCA	Kadapa	123456	7981933898	suresh@gmail.com	20-04-2000		Delete
SureshBabu		10-05-1999	MCA	Kadapa	123456	7981933898	suresh@gmail.com	12-05-2016		Delete
SanjayYadav		10-04-2021	B.Tech	Kadapa	123456	7981933898	sanjay@gmail.com	16-07-2021		Delete
SanjayKumar		10-05-1999	B.Tech	Kadapa	123456	7981933898	sanjay@123	14-07-2021		Delete
SureshKumar		10-05-1999	B.Tech	Kadapa	123456	7981933898	suresh	14-07-2021		Delete

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Add Project:

Add Project

Project Name:

Project Description:

Submission Date:

Duration:

Client Name:

Client Address:

Phone No:

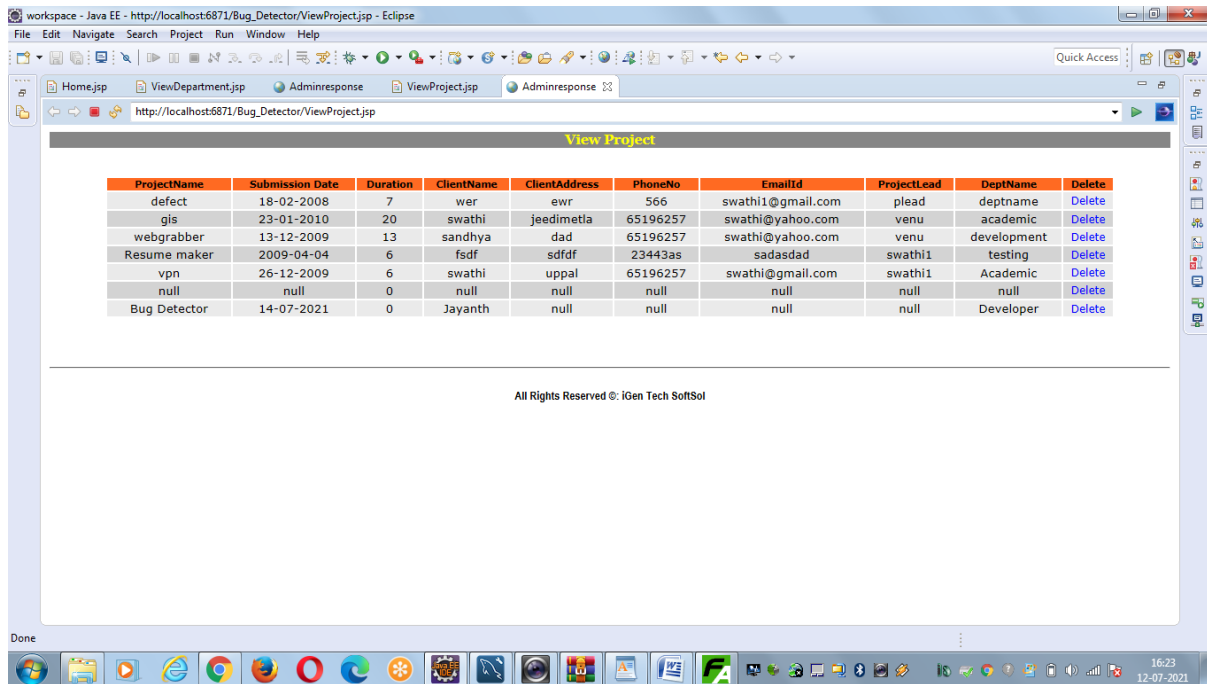
EmailId:

Department Name:

Project Lead:

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View Project:



workspace - Java EE - http://localhost:6871/Bug_Detector/ViewProject.jsp - Eclipse

File Edit Navigate Search Project Run Window Help

Home.jsp ViewDepartment.jsp Adminresponse ViewProject.jsp Adminresponse

http://localhost:6871/Bug_Detector/ViewProject.jsp

View Project

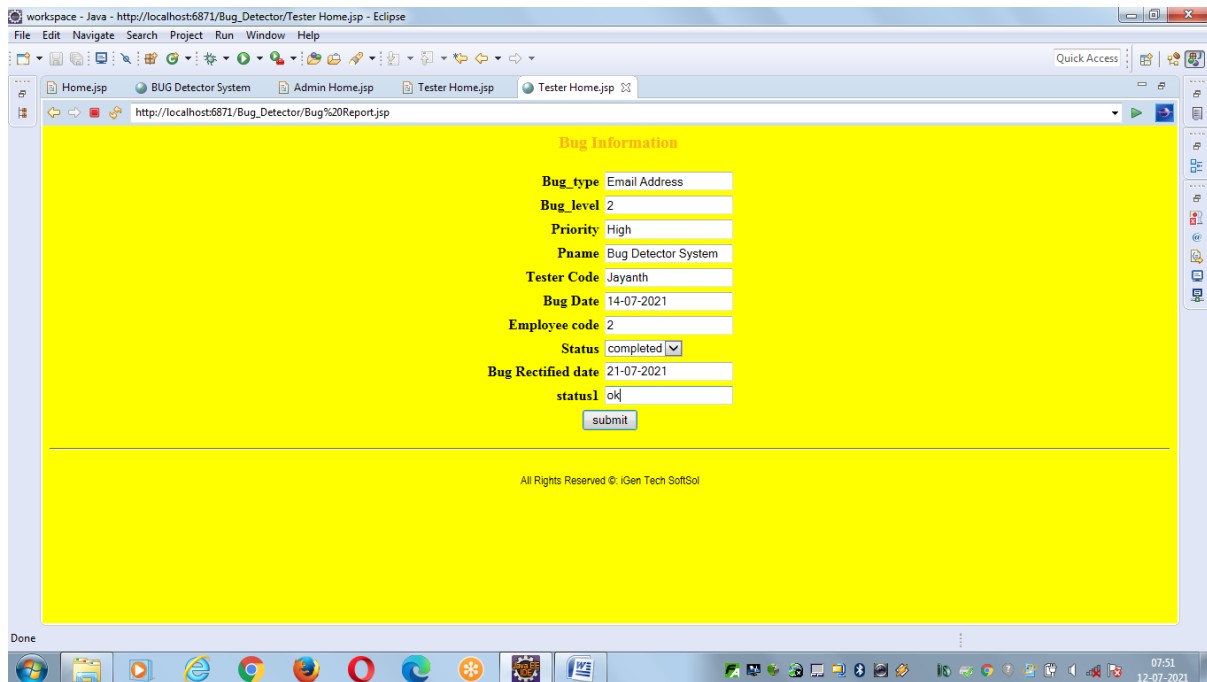
ProjectName	Submission Date	Duration	ClientName	ClientAddress	PhoneNo	EmailId	ProjectLead	DeptName	Delete
defect	18-02-2008	7	wer	ewr	566	swathi1@gmail.com	plead	deptname	Delete
gis	23-01-2010	20	swathi	jeedimetia	65196257	swathi@yahoo.com	venu	academic	Delete
webgrabber	13-12-2009	13	sandhya	dad	65196257	swathi@yahoo.com	venu	development	Delete
Resume maker	2009-04-04	6	fsdf	sdfff	23443as	sadasdad	swathi1	testing	Delete
vpn	26-12-2009	6	swathi	uppal	65196257	swathi@gmail.com	swathi1	Academic	Delete
null	null	0	null	null	null	null	null	null	Delete
Bug Detector	14-07-2021	0	Jayanth	null	null	null	null	Developer	Delete

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Done

16:23 12-07-2021

Developers Bug Information:



workspace - Java - http://localhost:6871/Bug_Detector/Tester Home.jsp - Eclipse

File Edit Navigate Search Project Run Window Help

Home.jsp BUG Detector System Admin Home.jsp Tester Home.jsp Tester Home.jsp

http://localhost:6871/Bug_Detector/Bug%20Report.jsp

Bug Information

Bug_type Email Address

Bug_level 2

Priority High

Pname Bug Detector System

Tester Code Jayanth

Bug Date 14-07-2021

Employee code 2

Status completed

Bug Rectified date 21-07-2021

status1 ok

submit

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Done

07:51 12-07-2021

Assign Bug:

workspace - Java - http://localhost:6871/Bug_Detector/Assign Bug.jsp - Eclipse

File Edit Navigate Search Project Run Window Help

Adminresponse Adminrespon... Admin response Adminrespon... Adminresponse Adminstrati... http://local... Assign Bug.jsp Login.html

http://localhost:6871/Bug_Detector/Assign%20Bug.jsp

Assign Bug

Bug_Name Images

Bug_type Error

Bug_level 2

Priority High

Project Name

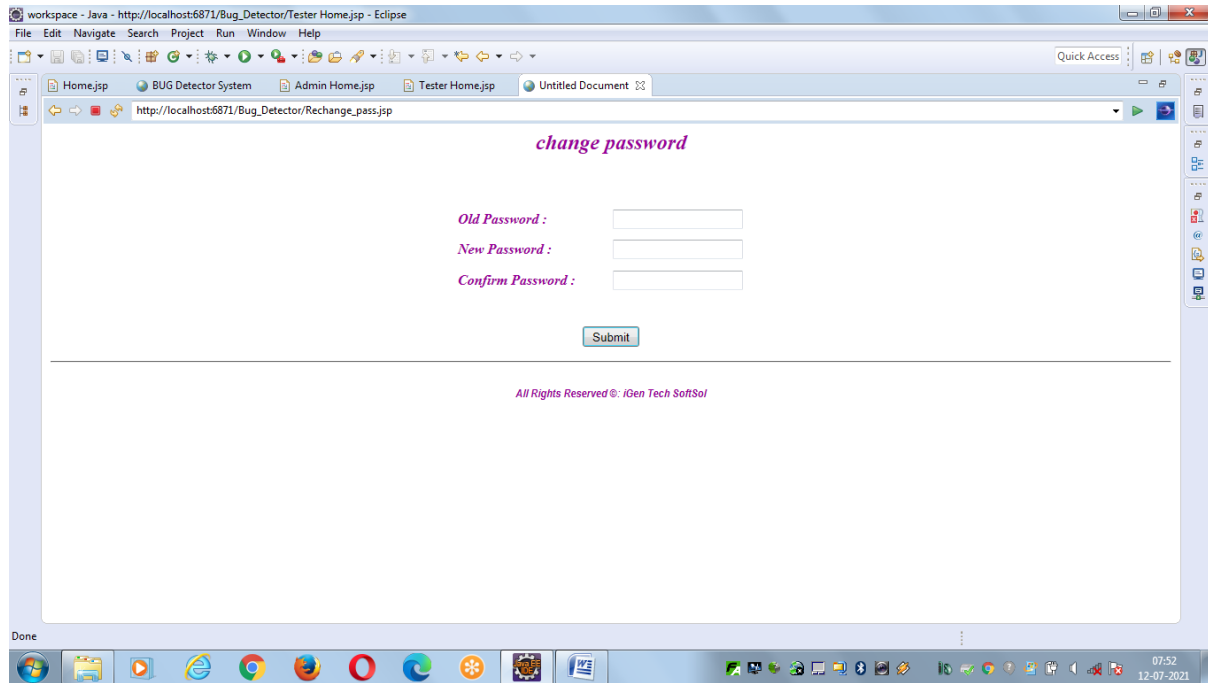
Status open

submit

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08:01 12-07-2021

Employee Password Changes:



THANK YOU

