



A Project

Report On

BUG Detector System

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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;

```


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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:

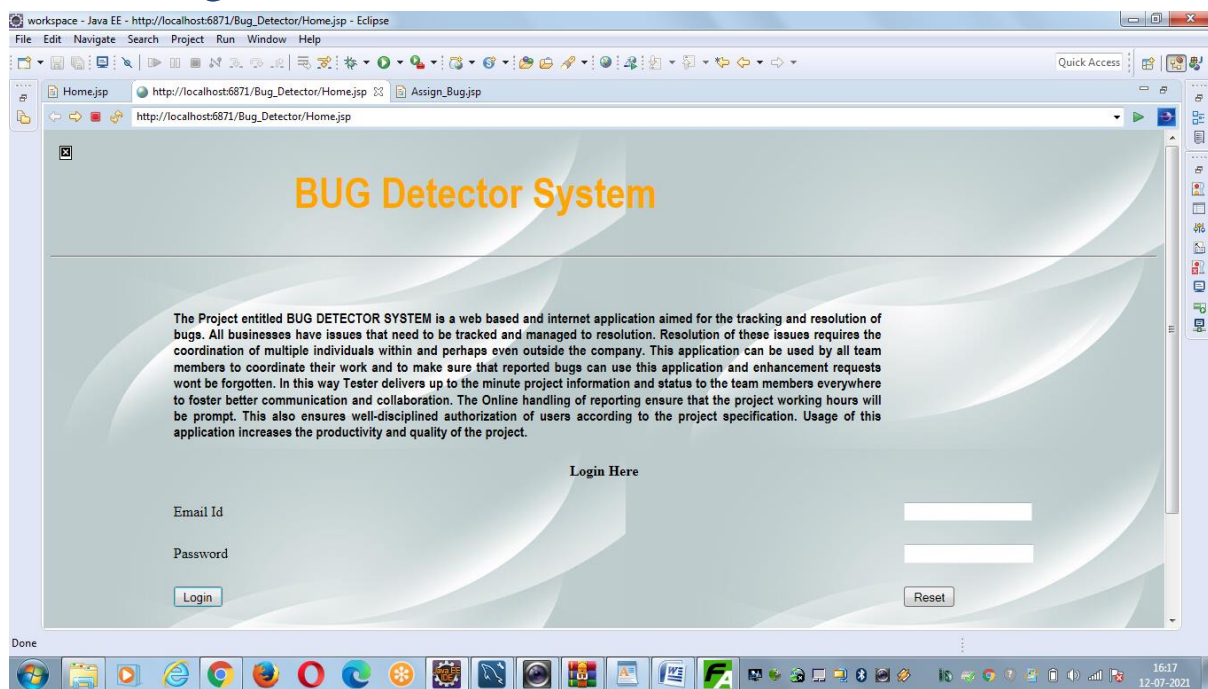
Processor : Pentium IV

RAM : 512MB RAM

Hard Disk : 10GB

Screen Shot Images:

Home Page:



Registration Form:

The screenshot shows a web browser window displaying a registration form titled "REGISTRATION FORM". The form is set against a green background. It contains various input fields for user registration, including text boxes for name, address, phone number, email, and date, as well as dropdown menus for gender, qualification, designation, marital status, and hint question. At the bottom of the form are "Register" and "Reset" buttons. The browser's address bar shows the URL "http://localhost:6871/Bug_Detector/Register.jsp".

| Field | Value |
|---------------|------------------------------|
| 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? |
| HintAnswer | Biryani |

Admin Page:

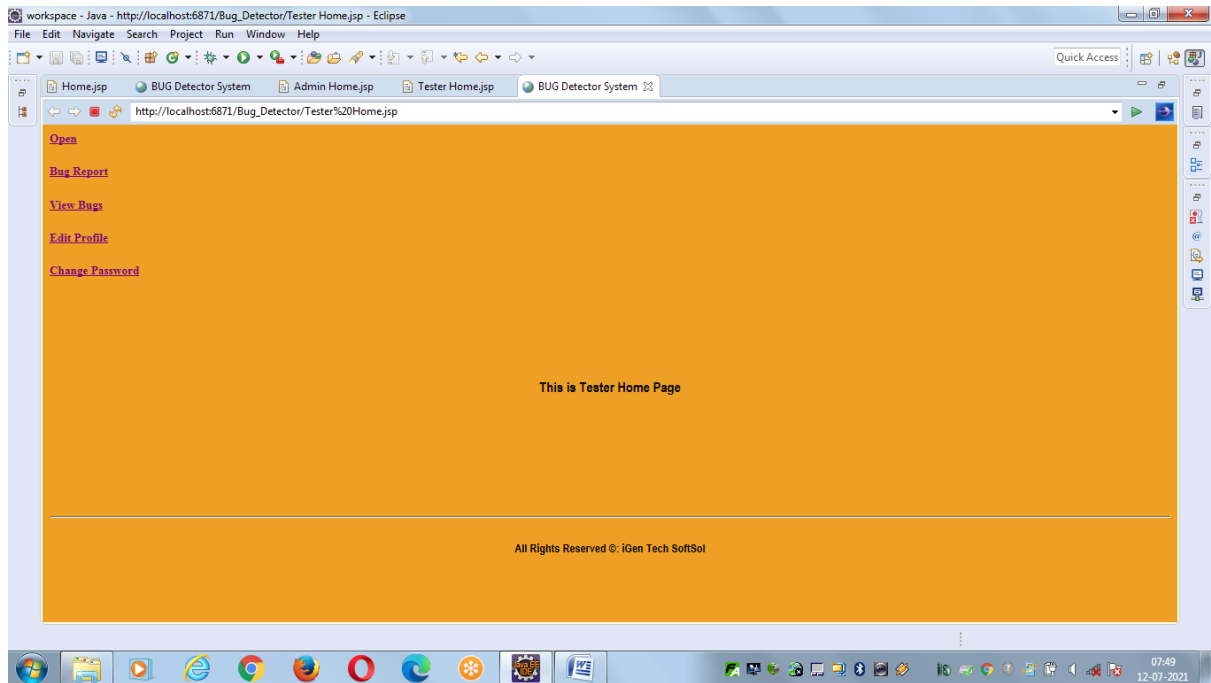
The screenshot shows a web browser window displaying the admin page of the "BUG Detector System". The page has a light blue background with a wavy pattern. On the left side, there is a list of links: "Department", "ViewDepartment", "Employee", "permission", "project", and "project details". In the center, the text "BUG Detector System" is displayed. At the bottom, a red text overlay reads "This is Admin Page". The browser's address bar shows the URL "http://localhost:8080/Bug_Detector/Admin%20Home.jsp".

BUG Detector System

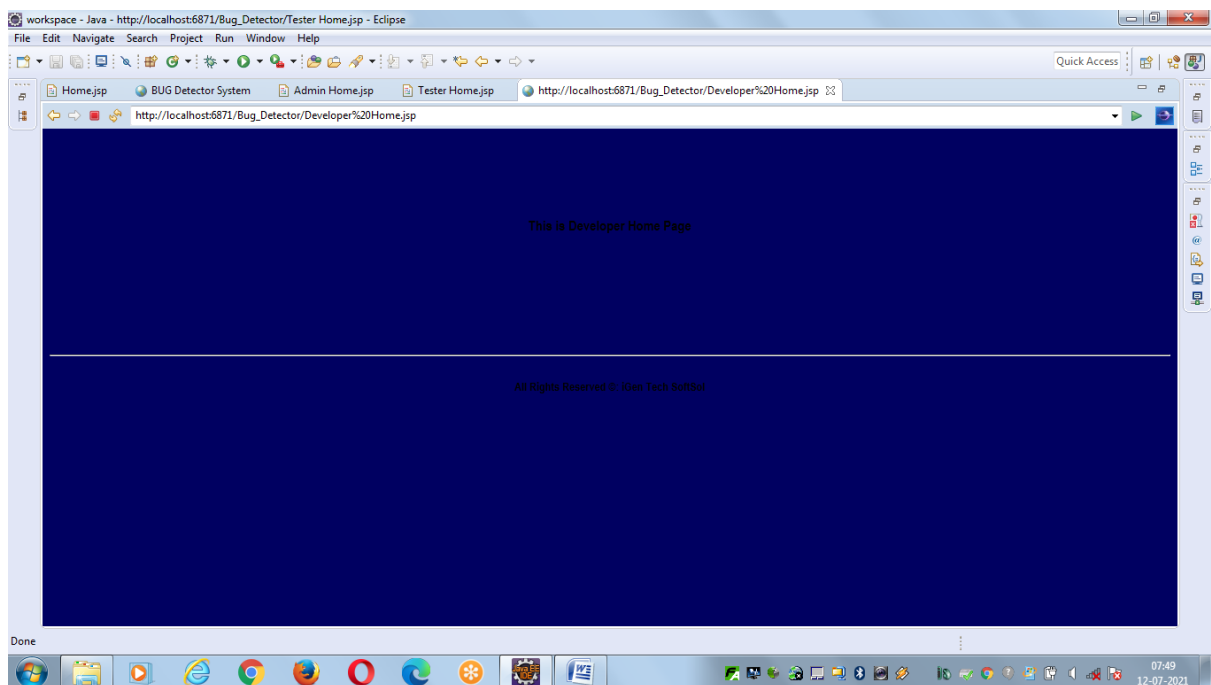
- Department
- ViewDepartment
- Employee
- permission
- project
- project details

This is Admin Page

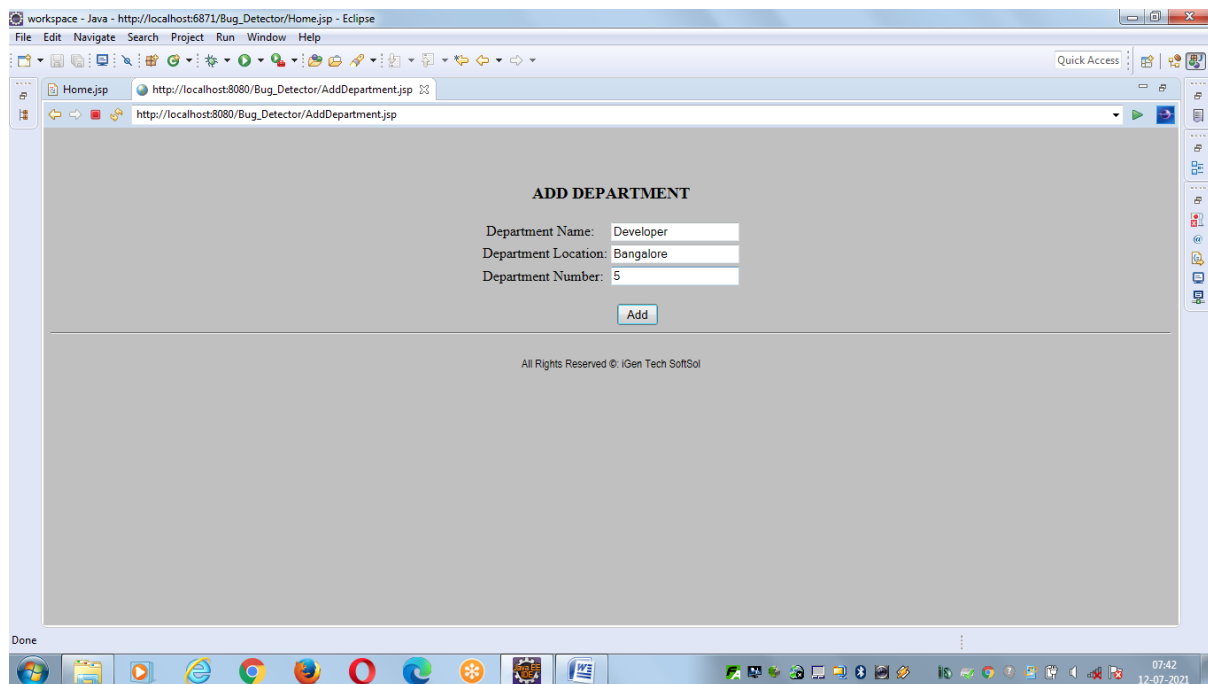
Tester Home Page:



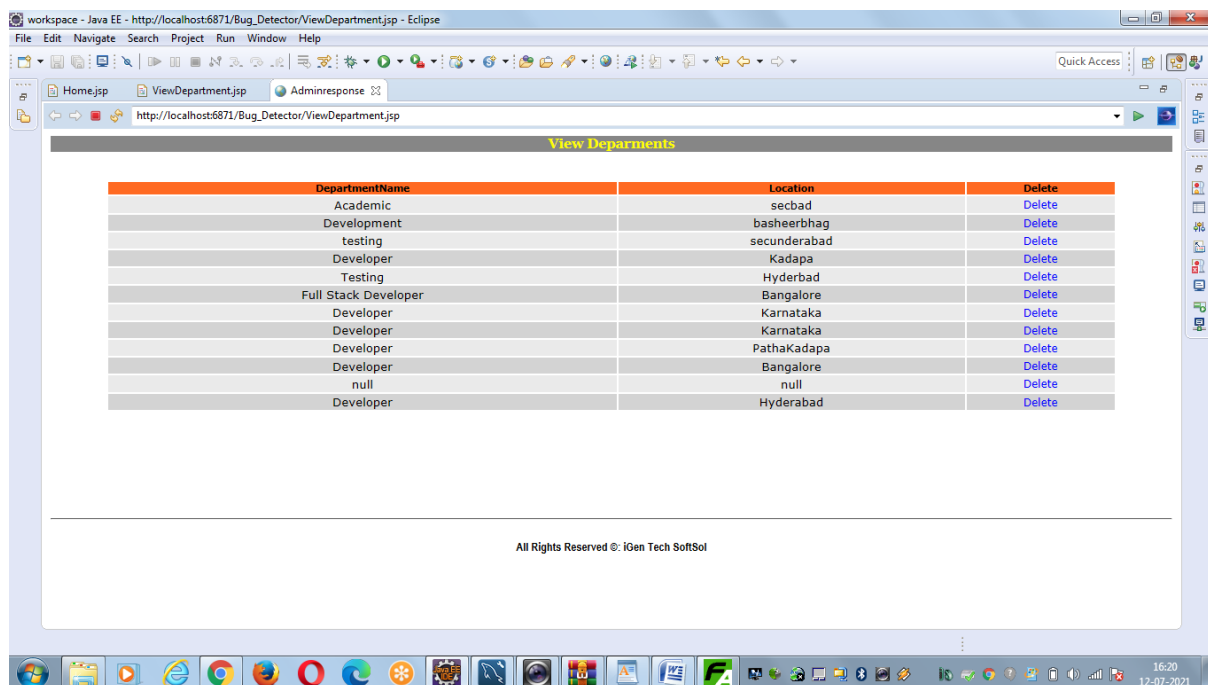
Developer Home Page:



Add Department:



View Department:



Admin View Employee:

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

File Edit Navigate Search Project Run Window Help

Home.jsp ViewDepartment.jsp Adminresponse ViewProject.jsp Adminresponse ViewEmployee.jsp Adminresponse

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

Employee Details

| 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 | sdhija | 787897 | Tester | Delete |
| venkataramana | Male | 12-02-1985 | mca | shdgkj | 65196257 | 9985959223 | sdhija | 2009-04-04 | Developer | Delete |
| lyothireddy | FeMale | 12-03-2009 | mca | sdfs | 3242 | dsfaf | dsfa | dsaf | Manager | Delete |
| hsdghhjsdg | 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 |
| harithahartha | 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:

workspace - Java - http://localhost:8080/Bug_Detector/Home.jsp - Eclipse

File Edit Navigate Search Project Run Window Help

Home.jsp http://localhost:8080/Bug_Detector/AddProject.jsp

Add Project

Date

Project Name: Bug Detector

Project Description: Its also a Defect Tracking System.

Submission Date: 14-07-2021

Duration: 7

Client Name: Jayanth

Client Address: Chennai

Phone No: 123456

EmailId: jayanth@gmail.com

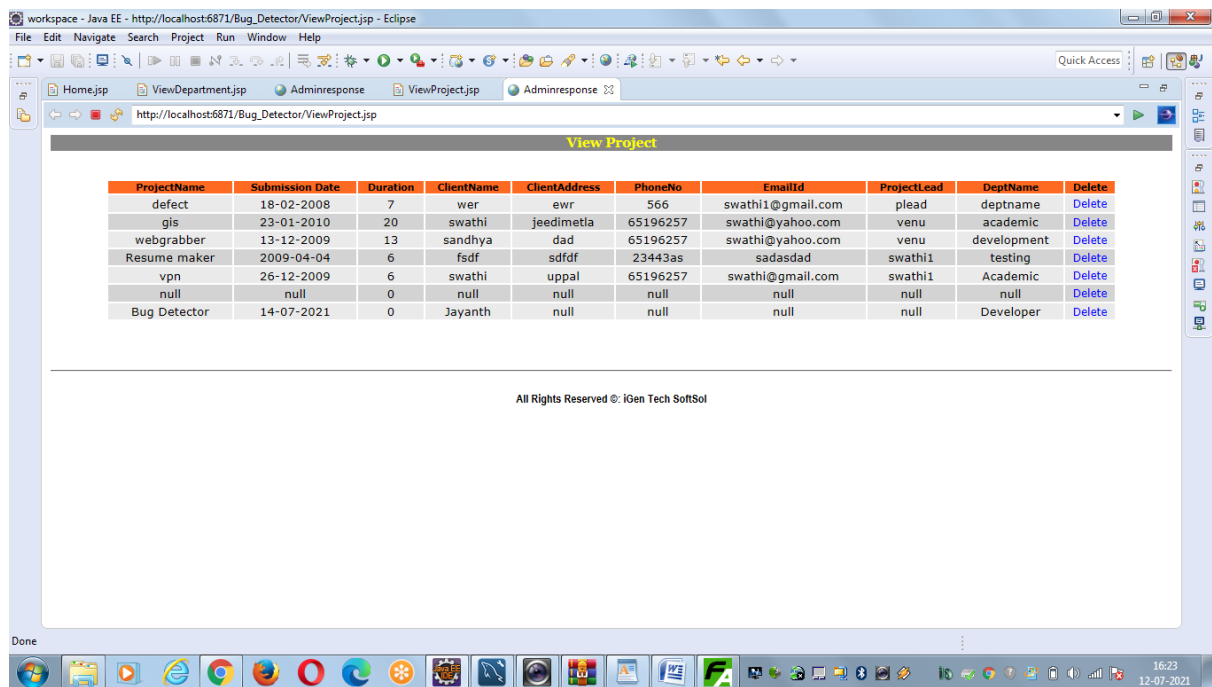
Department Name: Developer

Project Lead: ramana1

[login](#)

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View Project:

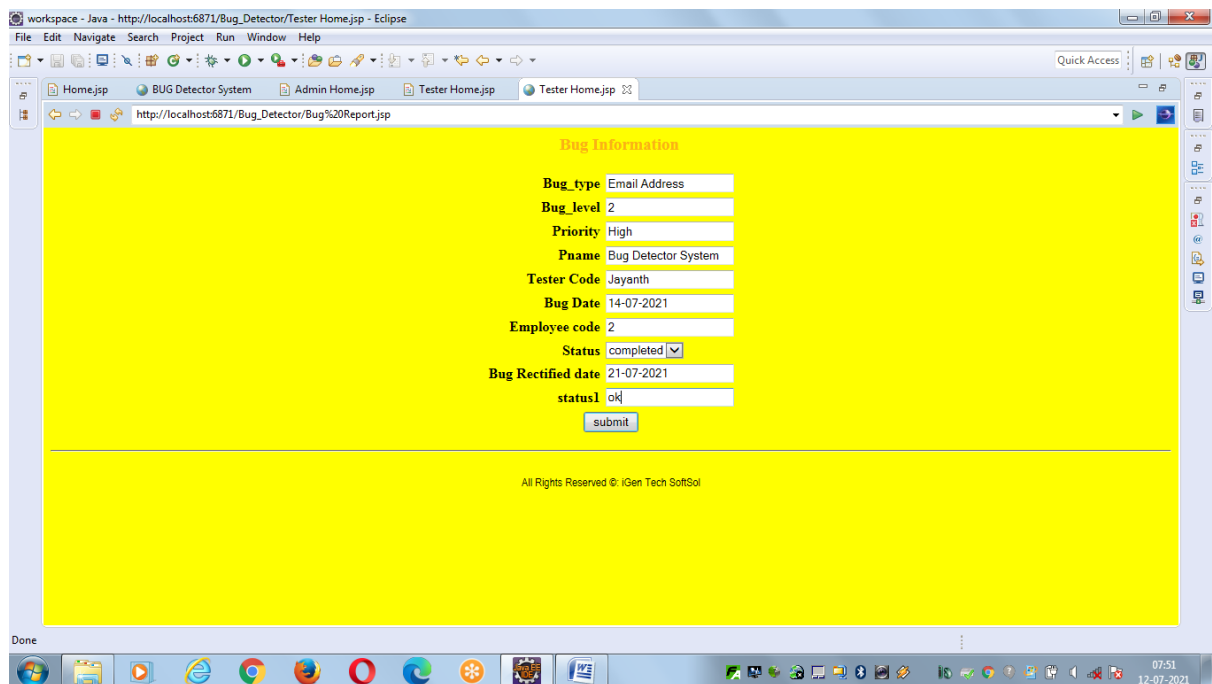


The screenshot shows the Eclipse IDE with the 'View Project' web application running in the browser. The browser address bar shows 'http://localhost:6871/Bug_Detector/ViewProject.jsp'. The page title is 'View Project'. The main content area displays a table with the following data:

| 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 |
| glis | 23-01-2010 | 20 | swathi | jeedimetla | 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 | uppai | 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 |

Below the table, the text 'All Rights Reserved ©: iGen Tech SoftSol' is displayed.

Developers Bug Information:



The screenshot shows the Eclipse IDE with the 'Bug Information' web application running in the browser. The browser address bar shows 'http://localhost:6871/Bug_Detector/Bug%20Report.jsp'. The page title is 'Bug Information'. The main content area displays a form with the following fields:

- 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 (dropdown menu)
- Bug Rectified date: 21-07-2021
- status1: ok

A 'submit' button is located below the form fields. Below the form, the text 'All Rights Reserved ©: iGen Tech SoftSol' is displayed.

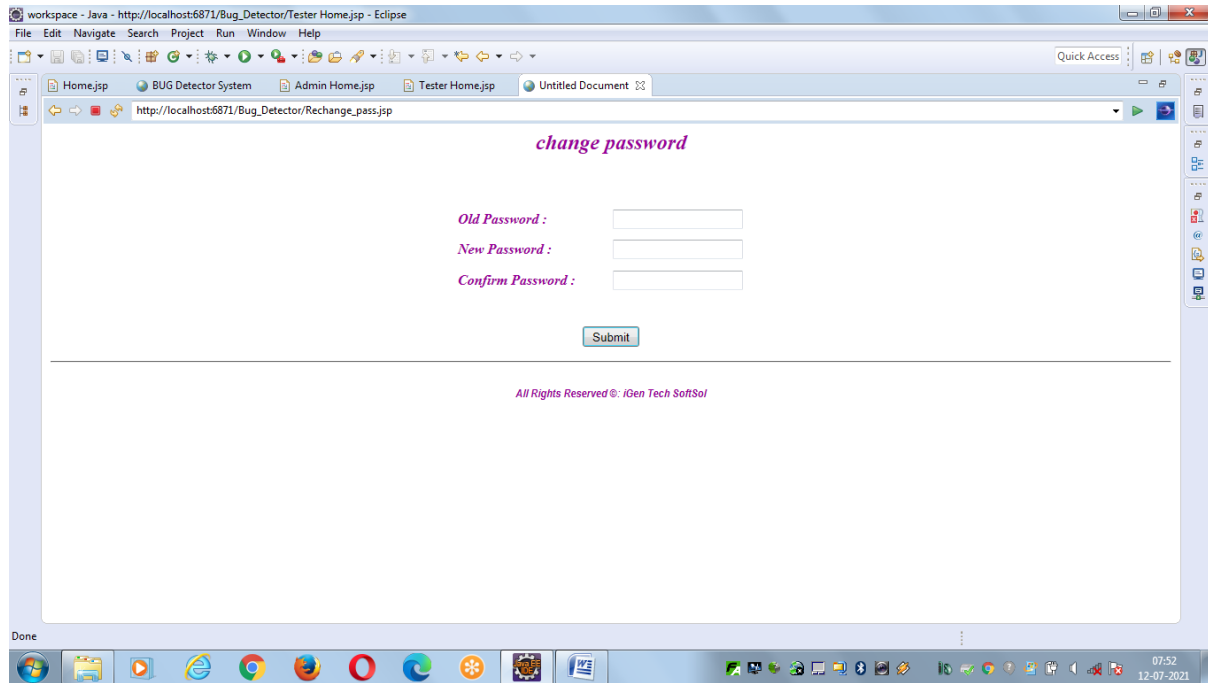
Assign Bug:

The screenshot displays a web browser window with the URL `http://localhost:6871/Bug_Detector/AssignBug.jsp`. The browser's address bar and tabs are visible at the top. The main content area shows a form titled "Assign Bug" in orange text. The form contains the following fields and controls:

- Bug_Name:** A text input field containing the value "Images".
- Bug_type:** A text input field containing the value "Error".
- Bug_level:** A text input field containing the value "2".
- Priority:** A text input field containing the value "High".
- Project Name:** A text input field that is currently empty.
- Status:** A dropdown menu with "open" selected.
- submit:** A button located below the Status dropdown.

Below the form fields, there is a horizontal line and a footer text: "All Rights Reserved ©: iGen Tech SoftSol". The browser window is part of an Eclipse IDE environment, as indicated by the menu bar and toolbar at the top. The Windows taskbar at the bottom shows various application icons and the system clock displaying "08:01 12-07-2021".

Employee Password Changes:



THANK YOU

