

BSc (Hons) in Computing Level 5



INDIVIDUAL ASSIGNMENT

**Module Code & Title: COSE50586
Web & Mobile Application Development - 1**

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TOTAL (%)		

Acknowledgement

I would like to Thank my Web & Mobile Application Development Lecturer Ms.Umanga to motivating and Helping around me to do this Task.

Executive summary

“Ministry of Education” is a website which will allow to complaint about the difficulties in school education system and problems in school premises. So, this Web application will allow the user to add complaints from anywhere in the country, This Web Application Developed MVC model architecture With Model, View, Controller.

Front End of this web application Implemented by HTML, JSP, CSS and DATA BASE

Back End of this web application Implemented by SERVLETS.

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01.Introduction

“Ministry of Education” helps people to add complaints about the issues that they are having in Schools. There are Four types of users.

- Visitor
- Complainer
- Complaint Handler
- Admin

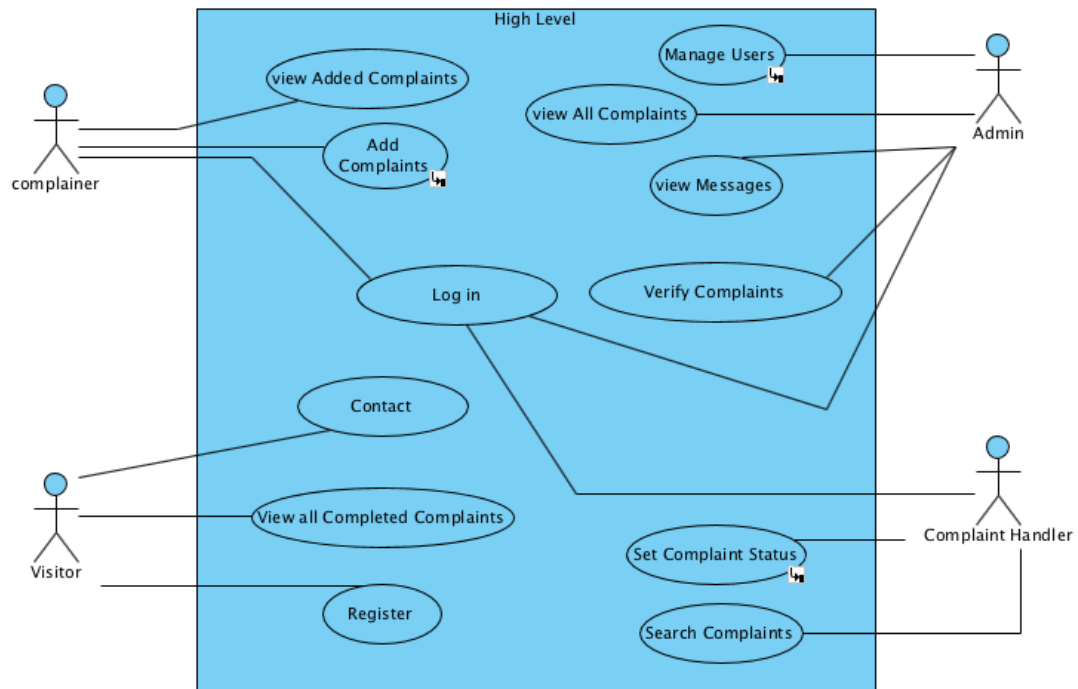
Visitor can view the completed Complaints and Contact the Admin. If visitor wants to add a complaint, Visitor have to Register to the system. After registering, Complainer can add complainer and view the added complaints. Admin will verify (Accept and Reject) the Complaints added complainer. Complaint Handler Will Take actions to the accepted complaints by Admin.

Functional Requirements: NetBeans 8.2, MySQL Workbench 8.0

02.Key Functionality

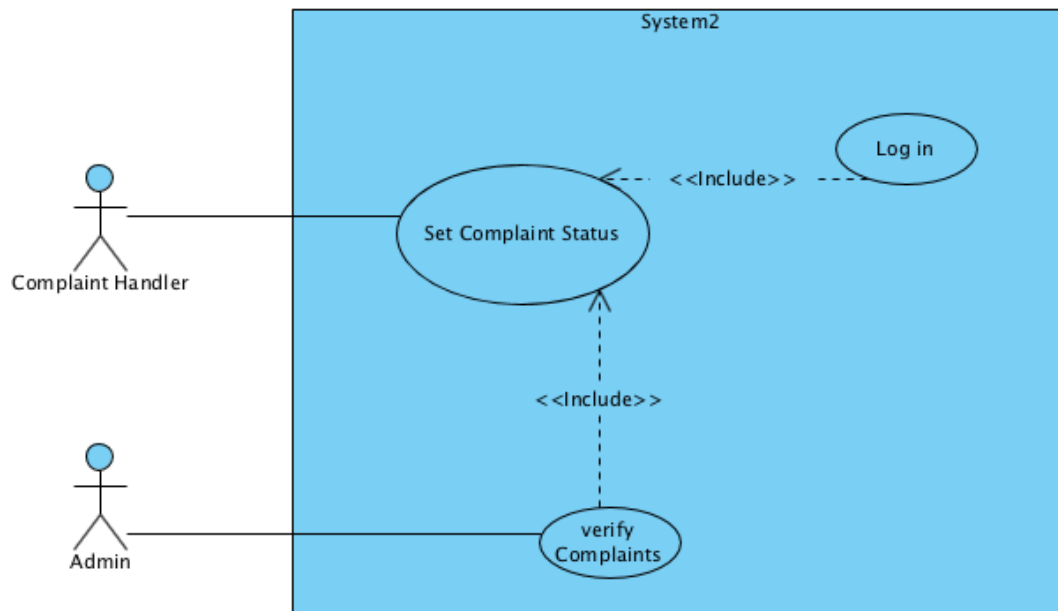
2.1 Design

2.1.1 High Level Diagram (Use Case Diagram)

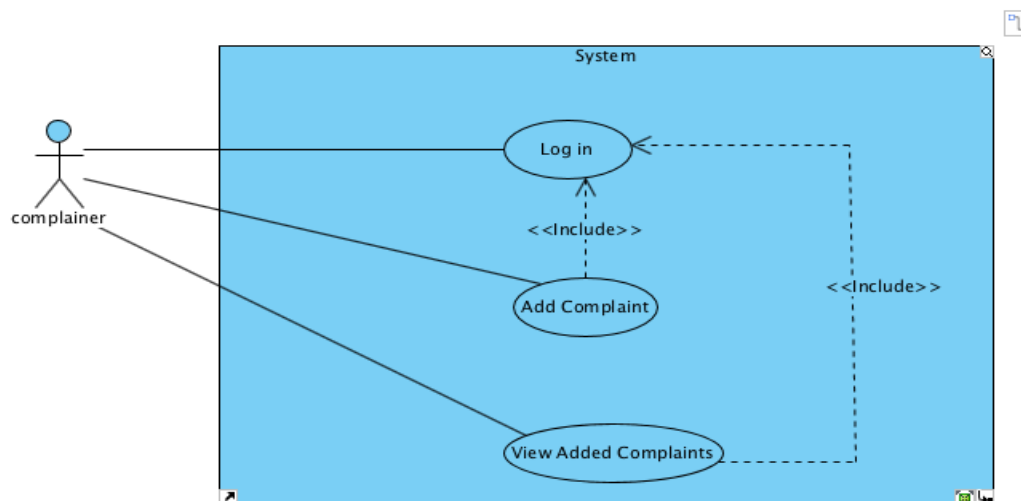


2.1.2 Sub use case diagrams

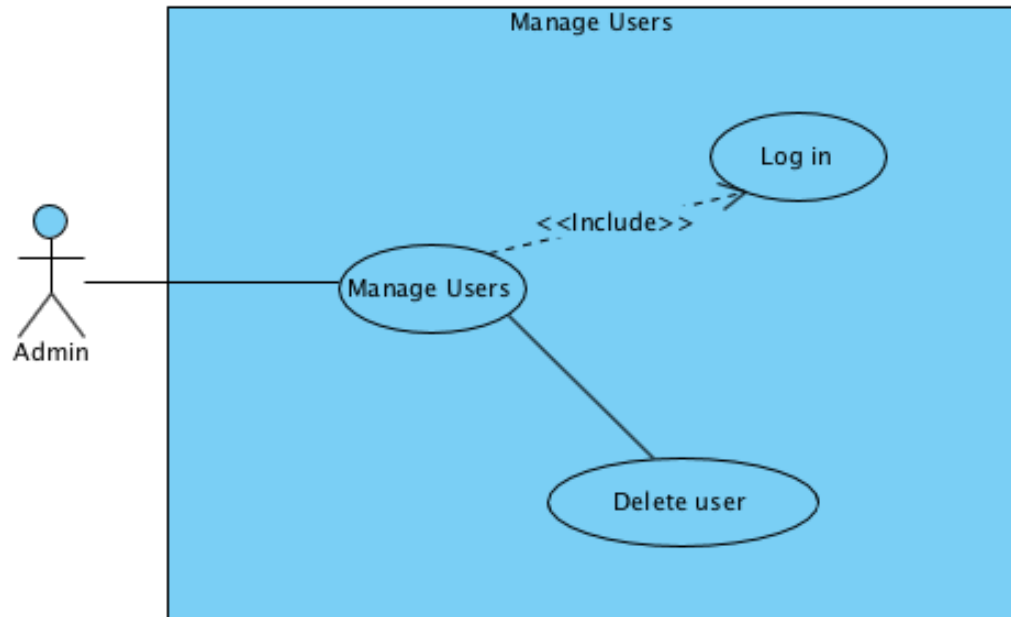
2.1.2.1 Set Complaint Status



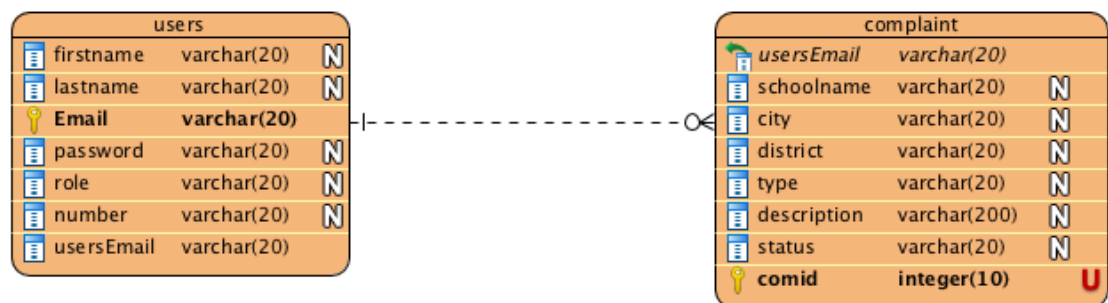
2.1.2.2 Add Complaints



2.1.2.3 Manage Users

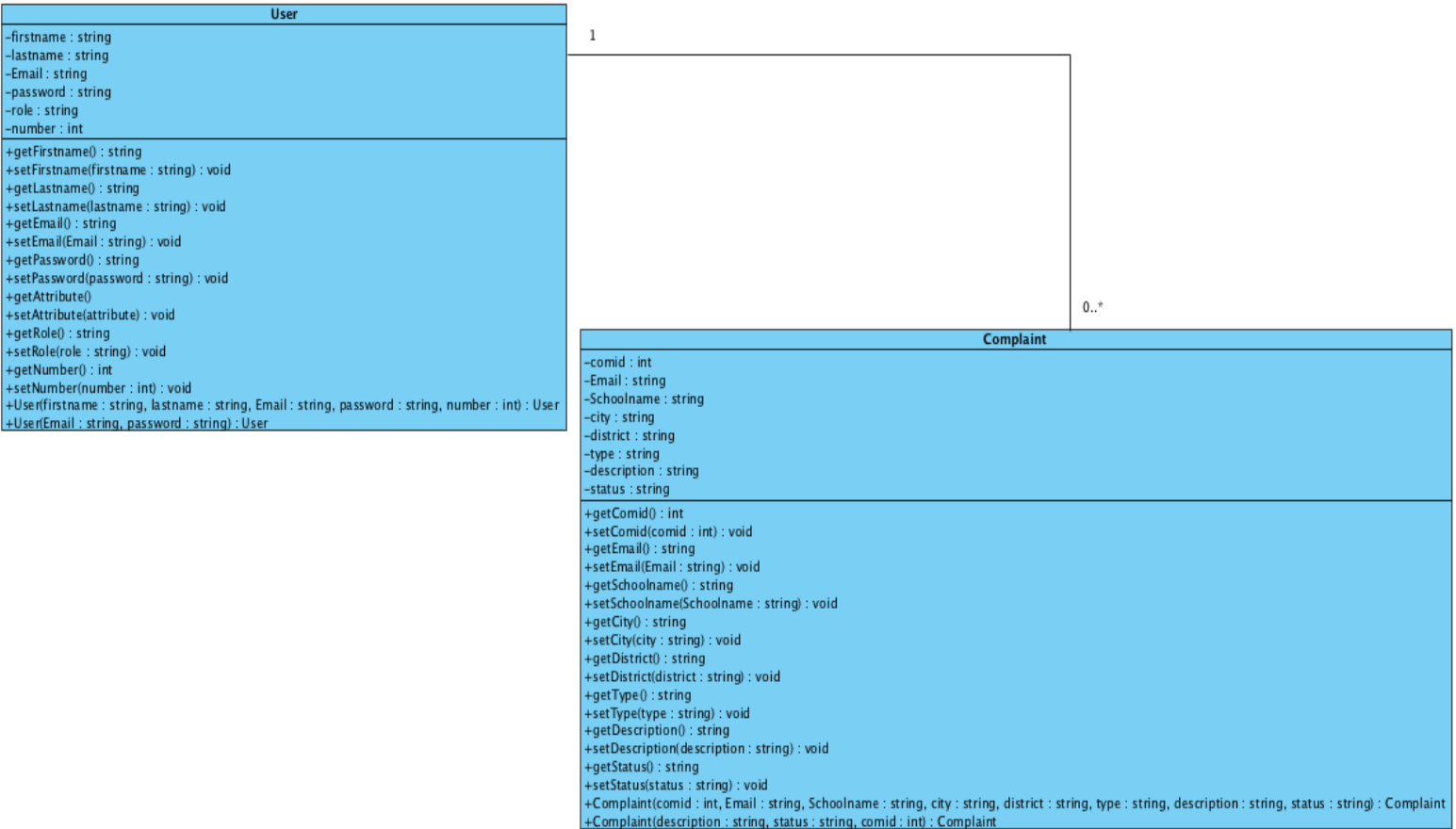


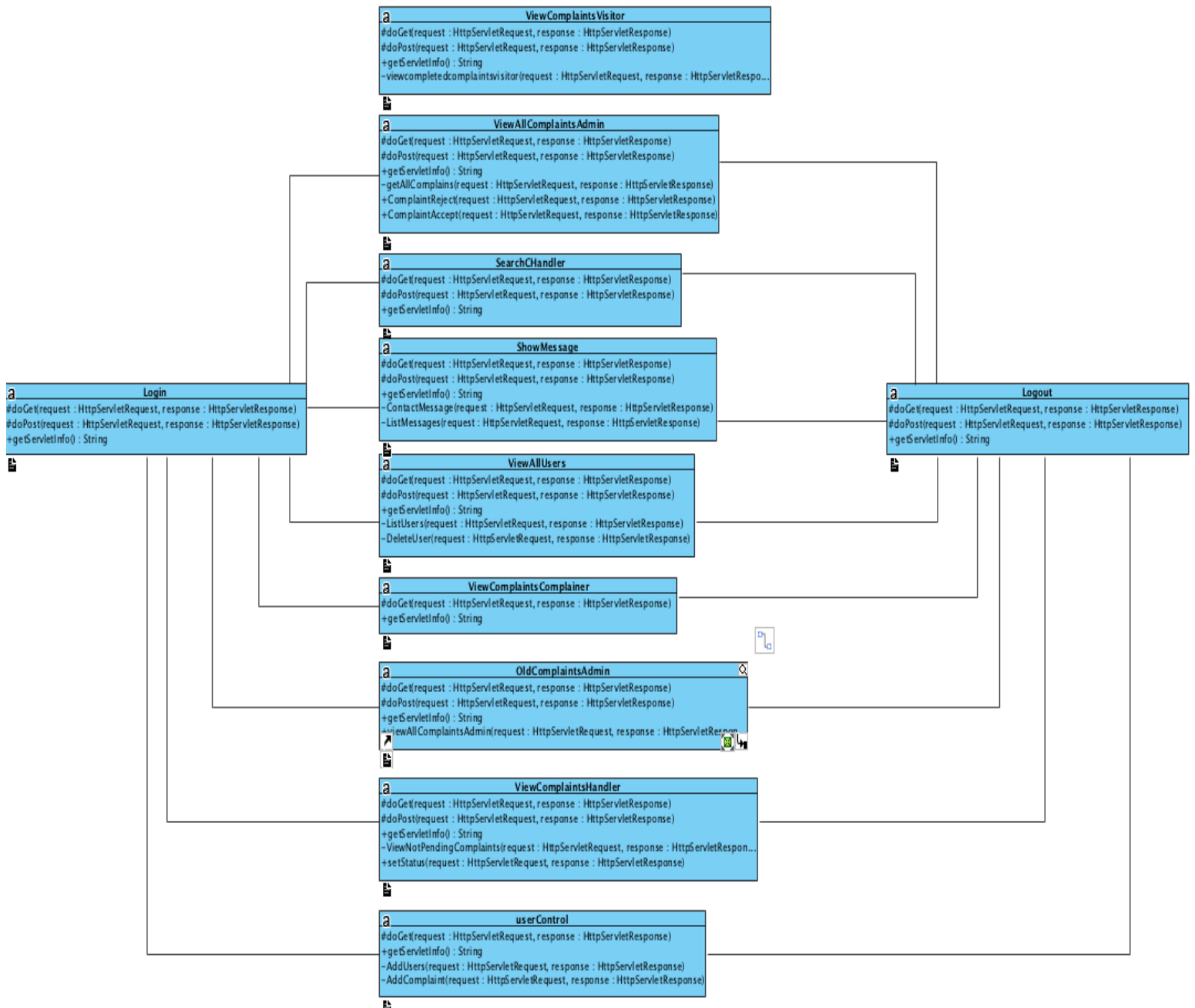
2.1.3 Entity Relationship Diagram



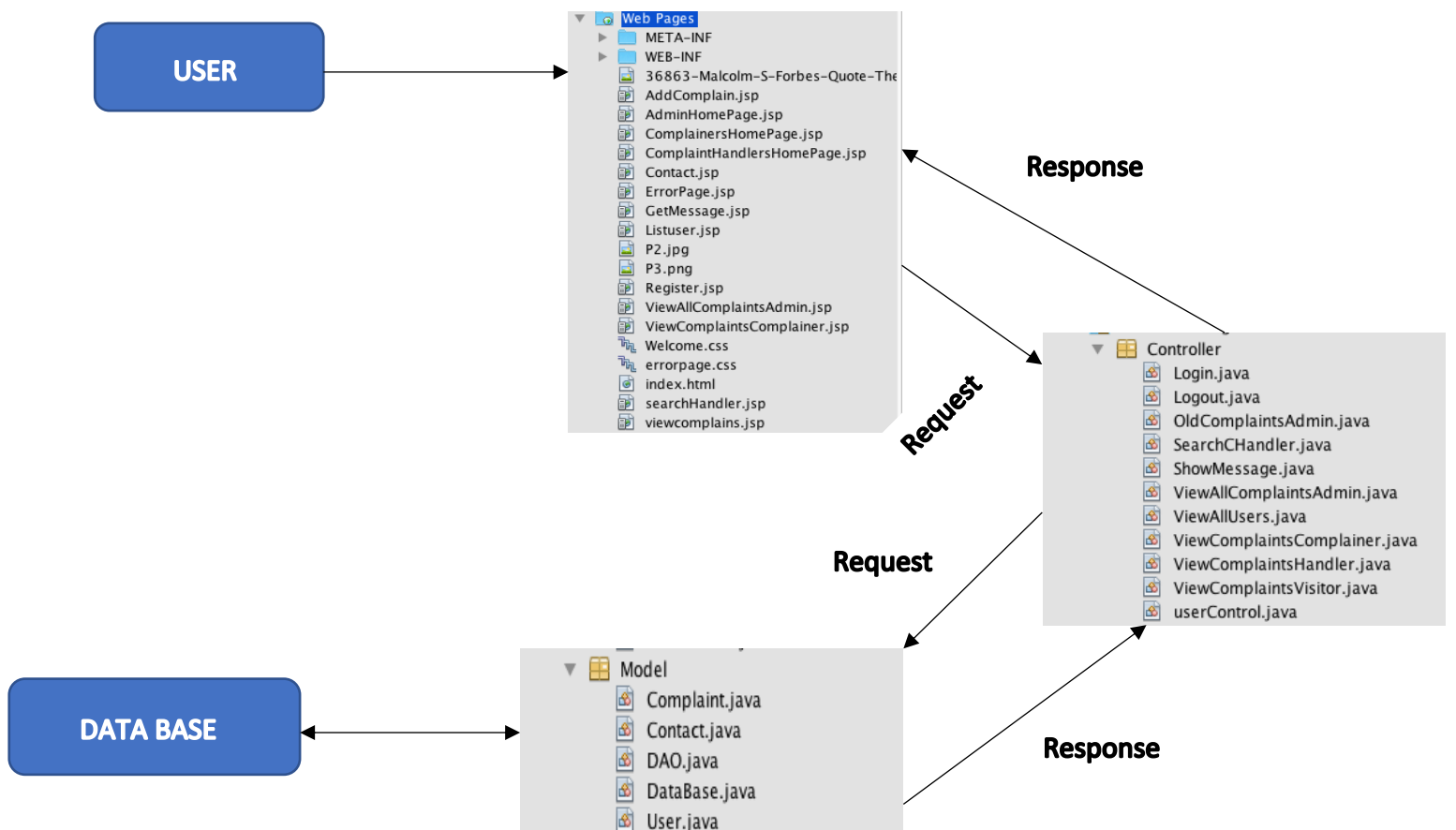
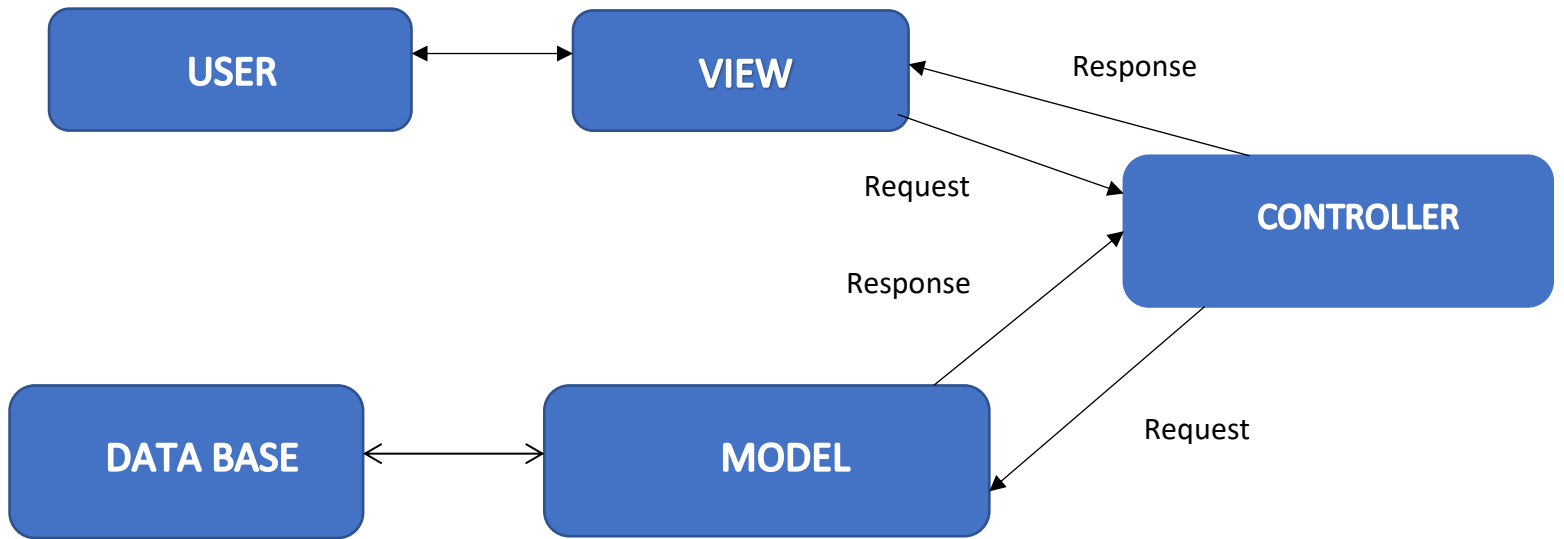
- User can have Many Complaints, Many Complaints Can Have One User.

2.1.4 Entity Class Diagram






2.2 MVC



2.3 Implementation

2.3.1 Home Page(Interface)

Ministry of Education	
HOME CONTACT VIEW COMPLAINS	
username:	
Email	
password:	
password	
Log in	
Don't have an Account? Register	
WELCOME TO THE EDUCATION DEPARTMENT	
YOU CAN ADD COMPLAINTS ABOUT SCHOOLS RESOURCES AND ISSUES.WE HEAR TO THEM AND WE WILL HELP AND TAKE ACTION TO SOLVE THEM	
 <p>The purpose of education is to replace an empty mind with an open one.</p> <p>Malcolm S. Forbes</p> <p>quote fancy</p>	

2.3.2 View Complaints for Visitor

After Clicking “VIEW COMPLAINTS”, Visitor can view the Completed Complaints by Complaint Handler.

Ministry of Education					
HOME CONTACT VIEW COMPLAINTS					
Complainer	School Name	City	District	Type	Complaint Details
leo	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME
leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	need another IT building
leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME
tony	AMAL INTERNATIONAL	COLOMBO	COLOMBO	student's discipline	STUDENTS CALL PRINCIPLE "PINA".....
leo	ZAHIRA COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHERS TALK TO MUCH
tony	AMAL INTERNATIONAL	COLOMBO	COLOMBO	facilities	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME
khalid	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME

“ViewComplaintsVisitor” Servlet

```
public class ViewComplaintsVisitor extends HttpServlet
{
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
    {
        try {
            String command = request.getParameter("command");
            if(command == null)
            {
                command="DONE_COM";
            }

            switch(command)
            {
                case "DONE_COM":viewcompletedcomplaintsvisitor(request,response);
                default:
            }
        } catch (Exception ex) {
            Logger.getLogger(userControl.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
}
```

```

private void viewcompletedcomplaintsvisor(HttpServletRequest request, HttpServletResponse response)
throws Exception
{
    DAO dao= new DAO();

    List<Complaint> complains=dao.getAllCompletedComplaintsVisitor();
    request.setAttribute("DONE_COM",complains);

    RequestDispatcher dispatcher=request.getRequestDispatcher("viewcomplains.jsp");
    dispatcher.forward(request, response);

}

```

“DAO” Method

```

public List<Complaint> getAllCompletedComplaintsVisitor()
{
    List<Complaint> complains = new ArrayList<Complaint>();
    try{
        PreparedStatement ps = connection.prepareStatement("SELECT * FROM complaint WHERE status='COMPLETED'");
        ResultSet rs = ps.executeQuery();

        while(rs.next())
        {
            int comid=rs.getInt("comid");
            String Email = rs.getString("Email");
            String Schoolname=rs.getString("schoolname");
            String city=rs.getString("city");
            String district=rs.getString("district");
            String type=rs.getString("type");
            String description=rs.getString("description");
            String status=rs.getString("status");
            Complaint allcomplains = new Complaint(comid,Email,Schoolname,city,district,type,description,status);
            complains.add(allcomplains);
        }
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
    return complains;
}

```

“getAllCompletedComplaintsVisitor” Method in DAO class will get all the Complaints in “complaints” table where status is “COMPLETED”.

2.3.3 Contact(Visitor)

Ministry of Education

[HOME](#) [CONTACT](#) [VIEW COMPLAINS](#)

Contact

Full Name:

Email:

subject:

Leave a message:

Submit

After filling the form and clicking “Submit” Data will store in “Contact” table.

“DAO” Method

```
public void Contact(Contact contact)
{
    PreparedStatement ps;
    try
    {
        ps=connection.prepareStatement("INSERT INTO Contact(fullname,Email,subject,message) VALUES(?,?,?,?)");
        ps.setString(1,contact.getFullname());
        ps.setString(2,contact.getEmail());
        ps.setString(3,contact.getSubject());
        ps.setString(4,contact.getMessage());
        ps.executeUpdate();
    }
    catch(SQLException ex)
    {
        Logger.getLogger(DAO.class.getName()).log(Level.SEVERE,null,ex);
    }
}
```

“ShowMessage” Servlet

```
private void ContactMessage(HttpServletRequest request, HttpServletResponse response)
throws Exception
{
    DAO dao= new DAO();

    String fullname=request.getParameter("fullname");
    String Email=request.getParameter("Email");
    String subject=request.getParameter("subject");
    String message=request.getParameter("message");

    Model.Contact contact=new Model.Contact(fullname,Email,subject,message);
    dao.Contact(contact);

    response.sendRedirect("Contact.jsp");
}
```

2.3.4 Register

If visitor wants to add complaints, then visitor have to register to the system. After clicking “Register” visitor have to fill the Register form and click “Submit”. After registering filled data will stored in “users” table and Visitors “role” becomes “Complainer”.

Ministry of Education	
HOME CONTACT VIEW COMPLAINS	
Create a New Account	
First Name:	
<input type="text" value="Enter First Name"/>	
Last Name:	
<input type="text" value="Enter Last Name"/>	
Email:	
<input type="text" value="example@email.com"/>	
password:	
<input type="text" value="set a password"/>	
Contact Number: +94	
<input type="text" value="717777777"/>	
<input type="submit" value="Submit"/>	

“DAO” Method

```
public void addUsers(User user)
{
    try
    {
        PreparedStatement preparedStatement = connection.prepareStatement("INSERT INTO users(firstname,lastname,Email,password,role,number) VALUES(?, ?, ?, ?, ?, ?)");
        preparedStatement.setString(1, user.getFirstname());
        preparedStatement.setString(2, user.getLastname());
        preparedStatement.setString(3, user.getEmail());
        preparedStatement.setString(4, user.getPassword());
        preparedStatement.setString(5, user.getRole());
        preparedStatement.setInt(6, user.getNumber());
        preparedStatement.executeUpdate();
    } catch (SQLException ex)
    {
        Logger.getLogger(DAO.class.getName()).log(Level.SEVERE, null, ex);
    }
}
```

“userControl” Servlet

```
private void AddUsers(HttpServletRequest request, HttpServletResponse response)
    throws Exception{
    DAO dao = new DAO();

    String firstname = request.getParameter("firstname");
    String lastname=request.getParameter("lastname");
    String Email = request.getParameter("Email");
    String password= request.getParameter("password");
    String role = "complainer";
    int number= Integer.parseInt(request.getParameter("Number"));

    User newusers = new User (firstname,lastname,Email,password,role,number);
    dao.addUsers(newusers);

    RequestDispatcher dispatcher=request.getRequestDispatcher("index.html");
    dispatcher.forward(request, response);
}
```

2.3.5 Log in

Once registered, user can access the account. “admin” and “complaintHandler” are entered to the database manually.

Ministry of Education	
HOME CONTACT VIEW COMPLAINS	
username:	
<input type="text"/>	
password:	
<input type="password"/>	
<input type="button" value="Log in"/>	
Don't have an Account? Register	

“DAO” Method

```
public String authenticUser(User user) throws SQLException
{
    String Email=user.getEmail();
    String password=user.getPassword();

    try
    {
        PreparedStatement ps=connection.prepareStatement("select Email,password,role from users ");
        ResultSet rs=ps.executeQuery();
        while(rs.next())
        {
            String email=rs.getString("Email");
            String Password=rs.getString("password");
            String role=rs.getString("role");

            if(Email.equals(email)&& password.equals(Password)&& role.equals("admin"))
                return "admin";
            else if(Email.equals(email)&& password.equals(Password)&& role.equals("complaintHandler"))
                return "complaintHandler";
            else if(Email.equals(email)&& password.equals(Password)&& role.equals("complainer"))
                return "complainer";
        }
    }
    catch(Exception ex)
    {
        ex.printStackTrace();
    }
    return "invalid";
}
```

```

public boolean checkkUsers(String Email)
{
    boolean st=false;
    try
    {
        PreparedStatement ps=connection.prepareStatement("SELECT Email FROM users WHERE Email=? ");
        ps.setString(1, Email);
        ResultSet rs=ps.executeQuery();
        st=rs.next();
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
    return st;
}

```

“Login” Servlet

```

protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException
{
    response.setContentType("text/html");
    PrintWriter out=response.getWriter();

    String Email=request.getParameter("Email");
    String Password=request.getParameter("password");

    User user= new User(Email,Password);

    DAO dao= new DAO();
    String role=null;

    try
    {
        role=dao.authenticUser(user);
    }
    catch(SQLException ex)
    {
        Logger.getLogger(Login.class.getName()).log(Level.SEVERE,null,ex);
    }
    switch(role)
    {
        case "admin":
        {
            HttpSession session=request.getSession();
            session.setAttribute("Email", Email);
            response.sendRedirect("ViewAllComplaintsAdmin");
            break;
        }
        case "complaintHandler":
        {
            HttpSession session=request.getSession();
            session.setAttribute("Email", Email);
            response.sendRedirect("ViewComplaintsHandler");
            break;
        }
        case "complainer":
        {
            HttpSession session=request.getSession();
            session.setAttribute("Email", Email);
            response.sendRedirect("ViewComplaintsComplainer");
            break;
        }
        default:
        {
            out.println("Sorry,Invalid username or Password");
            request.getRequestDispatcher("index.html").include(request, response);
        }
    }
}
}

```

2.3.6 Log out

you are successfully Logged Out

Ministry of Education	
HOME CONTACT VIEW COMPLAINS	
username:	
	Email
password:	

“Logout” Servlet

```
public class Logout extends HttpServlet
{
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
    {
        response.setContentType("text/html");
        PrintWriter out=response.getWriter();
        out.print("you are successfully Logged Out");
        request.getRequestDispatcher("index.html").include(request, response);

        Cookie ck=new Cookie("name","");

        ck.setMaxAge(0);
        response.addCookie(ck);

    }
}
```

2.3.7 Add Complaint(Complainer)

Ministry of Education

HOME ADD COMPLAINT LOG OUT

Welcome leo

Add a Complaint



After clicking “Add a Complaint” button, system will direct to the complaint adding form.

Ministry of Education

HOME ADD COMPLAINT LOG OUT

Add your Complaint

Enter School Name:

Enter City:

Enter District:

Select Complaint Type:

Facilities

Enter the Complaint(Details):

SUBMIT

[Home Page](#)

“userControl” Servlet

```
private void AddComplaint(HttpServletRequest request, HttpServletResponse response)
throws Exception
{
    DAO dao= new DAO();
    int comid=0;
    String Email=request.getParameter("Email");
    String schoolname=request.getParameter("Schoolname");
    String city=request.getParameter("city");
    String district=request.getParameter("district");
    String type=request.getParameter("Complaint Regarding?");
    String description=request.getParameter("description");
    String status="PENDING";

    Complaint complaint= new Complaint(comid,Email,schoolname,city,district,type,description,status);
    dao.addComplain(complaint);

    response.sendRedirect("ComplainersHomePage.jsp");
}
```

“DAO” Method

```
public void addComplain(Complaint complaint)
{
    try
    {
        PreparedStatement preparedStatement= connection.prepareStatement("INSERT INTO complaint(Email,schoolname,city,district,type,description,status,comid)
        +\" values(?,?,?,?,?,?,?,?)\"");

        preparedStatement.setString(1, complaint.getEmail());
        preparedStatement.setString(2, complaint.getSchoolname());
        preparedStatement.setString(3, complaint.getCity());
        preparedStatement.setString(4, complaint.getDistrict());
        preparedStatement.setString(5, complaint.getType());
        preparedStatement.setString(6, complaint.getDescription());
        preparedStatement.setString(7, complaint.getStatus());
        preparedStatement.setInt(8, complaint.getComid());
        preparedStatement.executeUpdate();
    }
    catch (SQLException ex)
    {
        Logger.getLogger(DAO.class.getName()).log(Level.SEVERE,null,ex);
    }
}
```

2.3.8 View Added Complaints(Complainer)

Ministry of Education		
HOME ADD COMPLAINT LOG OUT		
View Complaints		
Complaint ID	Added Complains	Complain Status
1	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED
3	NEED A GOOD DRAINAGE SYSTEM	IN-PROGRESS
7	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	OUT OF SCOPE
8	need another IT building	COMPLETED
9	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	OUT OF SCOPE
10	NEED A GOOD DRAINAGE SYSTEM	OUT OF SCOPE
12	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED
14	TEACHERS TALK TO MUCH	COMPLETED

“DAO” Method

```
public List<Complaint> getComplaintDescriptionforcomplainer(String email)
{
    List<Complaint> getdescription = new ArrayList<Complaint>();
    try
    {
        PreparedStatement ps = connection.prepareStatement("SELECT comid,description,status FROM complaint WHERE Email=?");
        ps.setString(1, email);
        ResultSet rs = ps.executeQuery();

        while(rs.next())
        {
            int comid=rs.getInt("comid");
            String description = rs.getString("description");
            String status=rs.getString("status");

            Complaint allDescription = new Complaint(description,status,comid);
            getdescription.add(allDescription);
        }
    }
    catch(Exception ex)
    {
        ex.printStackTrace();
    }

    return getdescription;
}
```

“ViewComplaintsComplainer” Servlet

```
public class ViewComplaintsComplainer extends HttpServlet
{
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
    {
        DAO dao= new DAO();
        String email=request.getParameter("Email");

        List<Complaint> getdescription=dao.getComplaintDescriptionforcomplainer(email);
        request.setAttribute("GET_DES",getdescription);
        RequestDispatcher dispatcher=request.getRequestDispatcher("ViewComplaintsComplainer.jsp");
        dispatcher.forward(request, response);
    }
}
```

2.3.9 View Complaints Status where “PENDING” for admin

Once a complaint added by Complainer, it will display in Admin homepage. Status will be “PENDING”.

Ministry of Education

HOME VIEW ALL COMPLAINTS VIEW ALL USERS MESSAGES LOG OUT

Welcome ashif

ID	Complainer	School Name	City	District	Type	Complaint Details	Status	Action
20	kili	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	PENDING	ACCEPT REJECT

“ViewAllComplaintAdmin” Servlet

```
private void getAllComplains(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException
{
    DAO dao= new DAO();
    List<Complaint> complains=dao.getAllComplains();
    request.setAttribute("COM_LIST",complains);

    RequestDispatcher dispatcher=request.getRequestDispatcher("AdminHomePage.jsp");
    dispatcher.forward(request, response);
}
```


“DAO” Method

```
public List<Complaint> getAllComplains()
{
    List<Complaint> complains = new ArrayList<Complaint>();
    try{
        PreparedStatement ps = connection.prepareStatement("SELECT * FROM complaint WHERE status='PENDING'");
        ResultSet rs = ps.executeQuery();

        while(rs.next())
        {
            int comid=rs.getInt("comid");
            String Email = rs.getString("Email");
            String Schoolname=rs.getString("schoolname");
            String city=rs.getString("city");
            String district=rs.getString("district");
            String type=rs.getString("type");
            String description=rs.getString("description");
            String status=rs.getString("status");
            Complaint allcomplains = new Complaint(comid,Email,Schoolname,city,district,type,description,status);
            complains.add(allcomplains);
        }
    } catch (Exception e)
    {
        e.printStackTrace();
    }
    return complains;
}
```

2.3.10 Accept/Reject Complaints by Admin

Admin can accept and reject added complaints. If Admin accepted the complaint it will make “status” as null. If rejected, complaint will be remove from “complaint” table.

Ministry of Education								
HOME VIEW ALL COMPLAINTS VIEW ALL USERS MESSAGES LOG OUT								
Welcome ashif								
ID	Complainer	School Name	City	District	Type	Complaint Details	Status	Action
20	kili	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	PENDING	ACCEPT REJECT

“DAO” Method

```
public void RejectComplaint(String comid)
{
    try
    {
        PreparedStatement ps = connection.prepareStatement("DELETE FROM complaint WHERE comid=?");
        ps.setString(1, comid);
        ps.executeUpdate();
    }
    catch(SQLException ex)
    {
        Logger.getLogger(DAO.class.getName()).log(Level.SEVERE, null, ex);
    }
}

public void AcceptComplaint(String comid)
{
    try
    {
        PreparedStatement ps=connection.prepareStatement("UPDATE complaint SET status=? WHERE comid=?");
        ps.setString(1, "");
        ps.setString(2, comid);
        ps.executeUpdate();
    }
    catch(SQLException ex)
    {
        Logger.getLogger(DAO.class.getName()).log(Level.SEVERE, null, ex);
    }
}
```

“ViewAllComplaintAdmin” Servlet

```
public void ComplaintReject(HttpServletRequest request, HttpServletResponse response) throws Exception
{
    DAO dao = new DAO();

    String comid = request.getParameter("comid");

    dao.RejectComplaint(comid);

    RequestDispatcher dispatcher = request.getRequestDispatcher("AdminHomePage.jsp");
    dispatcher.forward(request, response);
    getAllComplains(request, response);
}

public void ComplaintAccept(HttpServletRequest request, HttpServletResponse response) throws Exception
{
    DAO dao = new DAO();

    String comid = request.getParameter("comID");

    dao.AcceptComplaint(comid);

    RequestDispatcher dispatcher = request.getRequestDispatcher("AdminHomePage.jsp");
    dispatcher.forward(request, response);
    getAllComplains(request, response);
}
```

2.3.11 Manage users(Admin)

Admin can view and delete all the users including complaint handlers.

Ministry of Education						
HOME VIEW ALL COMPLAINTS VIEW ALL USERS MESSAGES LOG OUT						
First Name	Last Name	Email	Password	Role	Number	Action
afiq	aizath	afiq	123	complainer	714842136	DELETE USER
ashif	shakib	ashif	123	admin	714842136	DELETE USER
Matthew	Clinton	kili	123	complainer	714842136	DELETE USER
leo	messi	leo	123	complainer	714842136	DELETE USER
sanju	dev	sanju	123	complaintHandler	713561835	DELETE USER
tony	padilla	tony	123	complainer	714842136	DELETE USER

“DAO” Method

```
public List<User> getAllUsers()
{
    List<User> users = new ArrayList<User>();
    try{
        PreparedStatement ps = connection.prepareStatement("SELECT * FROM users");
        ResultSet rs = ps.executeQuery();

        while(rs.next()){
            String firstname= rs.getString("firstname");
            String lastname= rs.getString("lastname");
            String Email = rs.getString("Email");
            String password = rs.getString("password");
            String role=rs.getString("role");
            int number = rs.getInt("number");
            User myUser = new User(firstname,lastname,Email,password,role,number);
            users.add(myUser);
        }
    }catch (Exception e)
    {
        e.printStackTrace();
    }
    return users;
}
```

“ViewAllUsers” Servlet

```
private void ListUsers(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException
{
    DAO dao = new DAO();

    List<User> users = dao.getAllUsers();
    request.setAttribute("USER_LIST", users);

    RequestDispatcher dispatcher = request.getRequestDispatcher("Listuser.jsp");
    dispatcher.forward(request, response);

    response.sendRedirect("AdminHomePage.jsp");
}

private void DeleteUser(HttpServletRequest request, HttpServletResponse response)
    throws Exception
{
    DAO dao = new DAO();

    String Email = request.getParameter("Email");

    dao.deleteUser(Email);
    ListUsers(request, response);
}
```

2.3.12 View Messages

Admin can view the messages which visitors sent using contact.

Ministry of Education			
HOME	VIEW ALL COMPLAINTS	VIEW ALL USERS	MESSAGES LOG OUT
Welcome null			
Full Name	Email	Subject	Message
ashif	ashif@gmail.com	teaching	will i get a job
ashif	ashif@gmail.com	teaching	will i get a job
ashif	ashif@gmail.com	teaching	will i get a job
leo messi	leomessi@gmail.com	about soccer unit	we need a soccer field
leo messi	leomessi@gmail.com	about soccer unit	will i get a job
Luis	Suarez	About Soccer File	need a good maintenance of the soccer field

“DAO” Method

```
public List<Contact> getAllMessages()
{
    List<Contact> contact = new ArrayList<Contact>();
    try{
        PreparedStatement ps = connection.prepareStatement("SELECT * FROM Contact");
        ResultSet rs = ps.executeQuery();

        while(rs.next())
        {
            String fullname = rs.getString("fullname");
            String Email=rs.getString("Email");
            String subject=rs.getString("subject");
            String message=rs.getString("message");

            Contact allmessages = new Contact(fullname,Email,subject,message);
            contact.add(allmessages);
        }
    }
    catch (Exception e)
    {
        e.printStackTrace();
    }
    return contact;
}
```

“ShowMessage” Servlet

```
private void ListMessages(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException
{
    DAO dao= new DAO();
    List<Contact> contact=dao.getAllMessages();
    request.setAttribute("M_LIST",contact);

    RequestDispatcher dispatcher=request.getRequestDispatcher("GetMessage.jsp");
    dispatcher.forward(request, response);
}
```

2.3.13 View All complaints (Previous complaints)

Ministry of Education							
HOME VIEW ALL COMPLAINTS VIEW ALL USERS MESSAGES LOG OUT							
ID	Complainer	School Name	City	District	Type	Complaint Details	Status
1	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED
3	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	NEED A GOOD DRAINAGE SYSTEM	IN-PROGRESS
7	leo	ROYAL COLLEGE	anuradhapura	anuradhapura	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	OUT OF SCOPE
8	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	need another IT building	COMPLETED
9	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	OUT OF SCOPE
10	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	NEED A GOOD DRAINAGE SYSTEM	OUT OF SCOPE
12	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED
13	tony	AMAL INTERNATIONAL	COLOMBO	COLOMBO	student's discipline	STUDENTS CALL PRINCIPLE "PINA".....	COMPLETED
14	leo	ZAHIRA COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHERS TALK TO MUCH	COMPLETED
16	tony	AMAL INTERNATIONAL	COLOMBO	COLOMBO	facilities	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED
18	khalid	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED
20	kili	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	PENDING

“DAO” Method

```
public List<Complaint> getAllCompletedComplaintsForAdmin()
{
    List<Complaint> complains = new ArrayList<Complaint>();
    try{
        PreparedStatement ps = connection.prepareStatement("SELECT * FROM complaint");
        ResultSet rs = ps.executeQuery();

        while(rs.next())
        {
            int comid=rs.getInt("comid");
            String Email = rs.getString("Email");
            String Schoolname=rs.getString("schoolname");
            String city=rs.getString("city");
            String district=rs.getString("district");
            String type=rs.getString("type");
            String description=rs.getString("description");
            String status=rs.getString("status");
            Complaint allcomplaints = new Complaint(comid,Email,Schoolname,city,district,type,description,status);
            complains.add(allcomplaints);
        }
    }
    catch (Exception e)
    {
        e.printStackTrace();
    }
    return complains;
}
```

“OldComplaintsAdmin” Servlet

```
public void viewAllComplaintsAdmin(HttpServletRequest request, HttpServletResponse response) throws Exception
{
    DAO dao= new DAO();
    List<Complaint> complains=dao.getAllCompletedComplaintsForAdmin();
    request.setAttribute("ALL_COM", complains);

    RequestDispatcher dispatcher=request.getRequestDispatcher("ViewAllComplaintsAdmin.jsp");
    dispatcher.forward(request, response);
}
```

2.3.14 Set complaint Status (Complaint Handler)

After Admin accepting complaint, it will direct to Complaint handler. So, complaint handler can set the status to “COMPLETED”, “IN-PROGRESS” or “OUT OF SCOPE”. After admin accepting complaint status changes from “PENDING” to null. Then after complaint can set the status.

Ministry of Education								
HOME SEARCH COMPLAINTS LOG OUT								
Welcome sanju								
ID	Complainer	School Name	City	District	Type	Complaint Details	Action	Status
1	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> <input type="button" value="submit"/>	COMPLETED
3	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	NEED A GOOD DRAINAGE SYSTEM	COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> <input type="button" value="submit"/>	IN-PROGRESS
7	leo	ROYAL COLLEGE	anuradhapura	anuradhapura	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> <input type="button" value="submit"/>	OUT OF SCOPE
8	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	need another IT building	COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> <input type="button" value="submit"/>	COMPLETED

“DAO” Method

```
public void ChangeStatus(String comid,String status)
{
    try
    {
        PreparedStatement ps=connection.prepareStatement("UPDATE complaint SET status=? WHERE comid=?");
        ps.setString(1, status);
        ps.setString(2, comid);
        ps.executeUpdate();
    }
    catch(SQLException ex)
    {
        Logger.getLogger(DAO.class.getName()).log(Level.SEVERE,null,ex);
    }
}
```

```

public List<Complaint> getNotPendingComplaints()
{
    List<Complaint>complaints=new ArrayList<Complaint>();

    try
    {
        PreparedStatement ps=connection.prepareStatement("SELECT * FROM complaint WHERE status!='PENDING'");
        ResultSet rs=ps.executeQuery();
        while(rs.next())
        {
            int comid=rs.getInt("comid");
            String Email=rs.getString("Email");
            String Schoolname=rs.getString("schoolname");
            String city=rs.getString("city");
            String district=rs.getString("district");
            String type=rs.getString("type");
            String description=rs.getString("description");
            String status=rs.getString("status");
            Complaint notpending=new Complaint(comid,Email,Schoolname,city,district,type,description,status);
            complaints.add(notpending);
        }
    }
}

```

“ViewComplaintHandler” Servlet

```

public void setStatus (HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException
{
    DAO dao= new DAO();

    String comid=request.getParameter("comid");
    String status=request.getParameter("status");

    switch(status)
    {
        case "1":
        {
            status="COMPLETED";
            dao.ChangeStatus(comid, status);
            break;
        }
        case "2":
        {
            status="IN-PROGRESS";
            dao.ChangeStatus(comid, status);
            break;
        }
        case "3":
        {
            status="OUT OF SCOPE";
            dao.ChangeStatus(comid, status);
            break;
        }
        default:
        {
            break;
        }
    }
    ViewNotPendingComplaints(request,response);
}

```

```

private void ViewNotPendingComplaints (HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException
{
    DAO dao= new DAO();

    List<Complaint>complaints=dao.getNotPendingComplaints();

    request.setAttribute("COMH_LIST", complaints);
    RequestDispatcher dispatcher=request.getRequestDispatcher("ComplaintHandlersHomePage.jsp");
    dispatcher.forward(request, response);
}

```


2.3.15 Search Complaints (Complaint Handler)

Complaint Handler can search complaints using Complaint ID (comid).

Ministry of Education							
HOME SEARCH COMPLAINTS LOG OUT							
<input type="text" value="Enter Complaint ID"/>							
<input type="button" value="Submit"/>							
ID	Complainer	School Name	City	District	Type	Complaint Details	Status

“SearchCHandler” Servlet

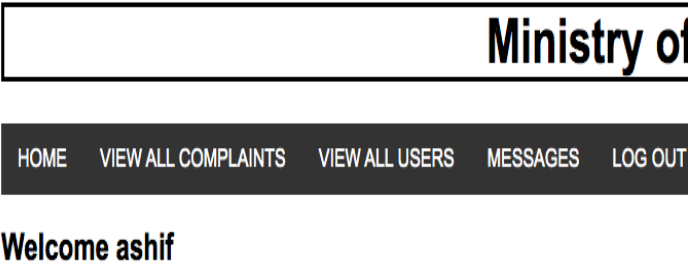
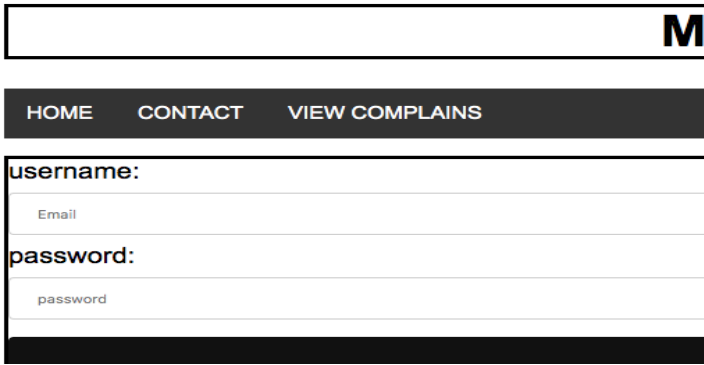
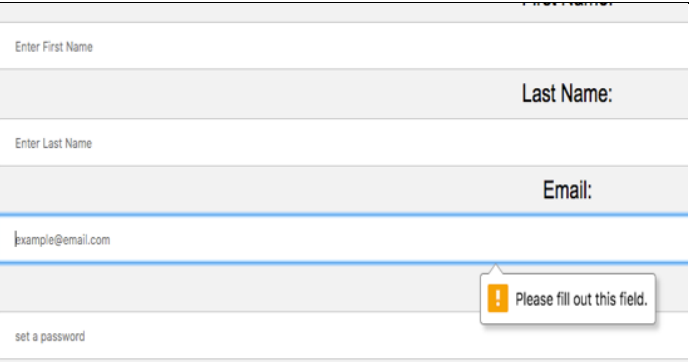
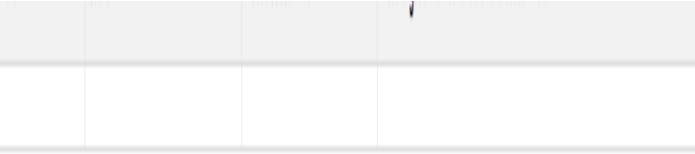
```
public class SearchCHandler extends HttpServlet
{
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException
    {
        try {
            DAO dao= new DAO();
            String Comid=request.getParameter("comid");
            List<Complaint> complains;
            complains = dao.SearchComplaintsComplaintHandler(Comid);
            request.setAttribute("SEARCH", complains);
            RequestDispatcher dispatcher=request.getRequestDispatcher("searchHandler.jsp");
            dispatcher.forward(request, response);
        } catch (SQLException ex) {
            Logger.getLogger(SearchCHandler.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
}
```

“DAO” Method

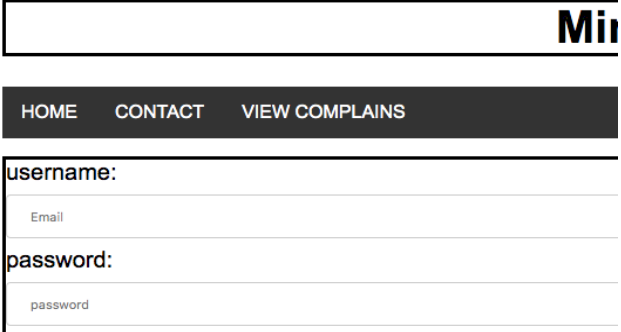
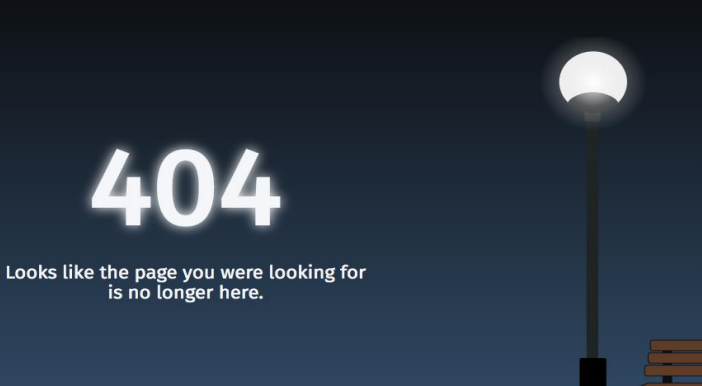
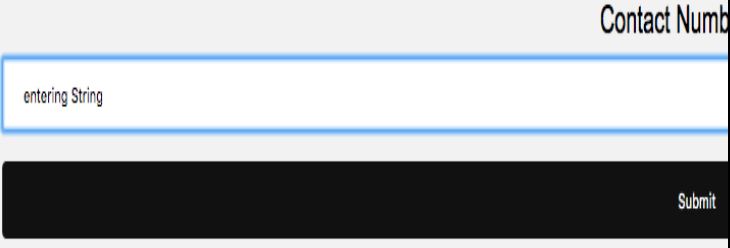
```
public List<Complaint> SearchComplaintsComplaintHandler(String Comid) throws SQLException
{
    List<Complaint> complains = new ArrayList<Complaint>();
    try
    {
        PreparedStatement ps = connection.prepareStatement("SELECT * FROM complaint WHERE comid=?");
        ps.setString(1, Comid);
        ResultSet rs=ps.executeQuery();

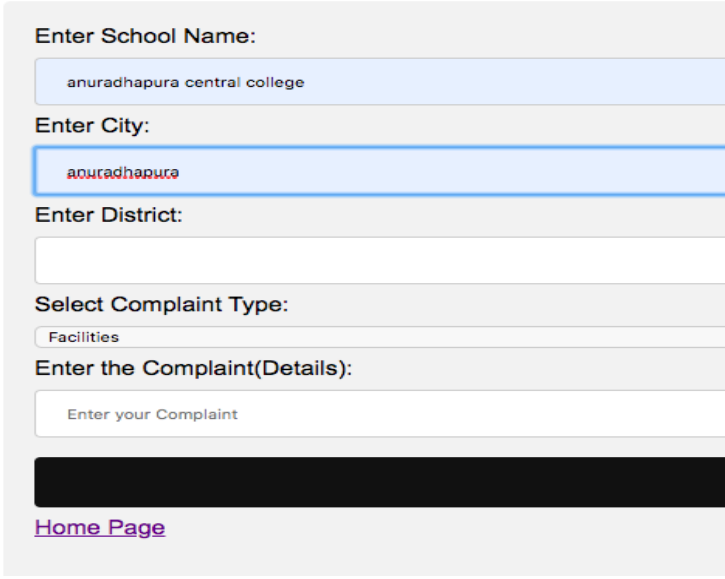
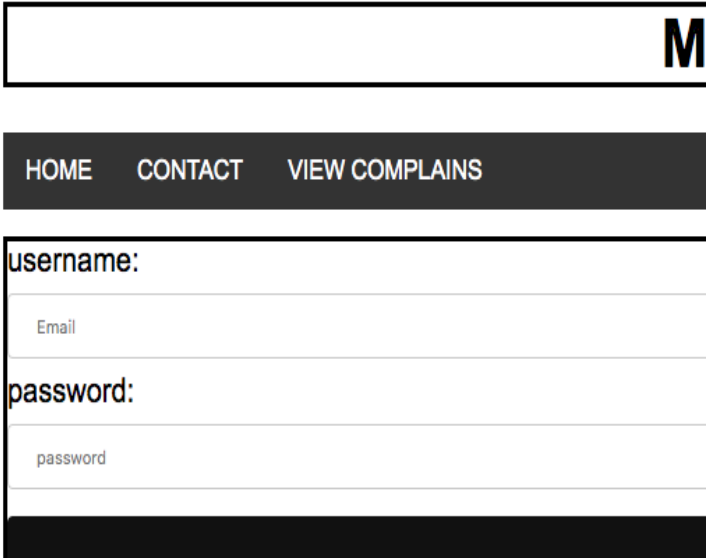
        while(rs.next())
        {
            int comid=rs.getInt("comid");
            String Email = rs.getString("Email");
            String Schoolname=rs.getString("schoolname");
            String city=rs.getString("city");
            String district=rs.getString("district");
            String type=rs.getString("type");
            String description=rs.getString("description");
            String status=rs.getString("status");
            Complaint allcomplains = new Complaint(comid,Email,Schoolname,city,district,type,description,status);
            complains.add(allcomplains);
        }
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
    return complains;
}
```

2.4 Testing

Test Case ID	Purpose	Prerequisites	Steps	Expected Result	Actual Result	Result
TC 001	Log in	System is up and Running	1. Enter valid Email & Password 2. click "Login"	Successful log in		Pass
TC 002	Log in with invalid Credentials	System is up and Running	1. Enter invalid Email & Password 2. click "Login"	Error Message		Pass
TC 003	Clicking Register form without filling anything.	System is up and Running	1. Click Register 2. Click Submit	"Please fill out this field" Message		Pass
TC 004	Sending null message to Admin	System is up and Running	1. Click contact 2. submit with	Null messages will not display		Fail

	using contact		ut filling anything	y for admin		
TC 005	Admin accepts complaint	System is up and Running	1. Accept pending complaint	Status of complaint will be null	(2 nd column) Status become null TEACHER MOSTLY USING PHONE DURIN...	Pas s
TC 006	Admin Deletes Complaint	System is up and Running	1. delete pending complaint	Complaint will have removed from the database	Deleted from complaint table	Pas s
TC 006	Admin Deleted Users	System is up and Running	1. click "delete user"	1. User details will have removed from Database	Deleted from "users" Table	Pas s
TC 007	Register to the system	System is up and Running	1. click Register 2. fill the form 3. submit	1. user details will save in "users" table	User details saved in the "users" Table	pas s

TC 008	Log out	System is up and Running	1.click log out	1.user s will be logge d out from the accou nt	<p>you are successfully Logged Out</p> 	Pas s
TC 009	Error page	System is up and Running	1.chan ge the URL to invali d path	1.Syst em direct s to Error page		Pas s
TC 010	Enteri ng String value to Phone numb er in Regist er	System is up and Running	1.Ente r String in Phone numb er	1. Error messa ge	<p>Registered with String value</p> 	Fai l

TC 011	Entering null values for Complaint form	System is up and Running	1. Enter null for complaint form	1. error message	<p>Submitted with null values</p> 	Fail
TC 012	Entering null to Username and password	System is up and Running	1. Enter null to login credentials 2. click login	1. error message	<p>Sorry, Invalid username or Password</p> 	Pass

TC 013	Enter string in search com id bar	System is up and Runnin g	1.ente r string 2.clic k “subm it”	1.erro r messa ge	<div><div>Ministry of Education</div><div>HOME SEARCH COMPLAINTS LOG OUT</div><div><input type="text" value="string1"/></div><div>Submit</div><table><tr><th>ID</th><th>Complainer</th><th>School Name</th><th>City</th><th>District</th></tr></table></div>	ID	Complainer	School Name	City	District	Fails																																																	
ID	Complainer	School Name	City	District																																																								
TC 014	Change status of already changed complaint	System is up and Runnin g	1.select status type	1.status will change	Status changed from the previous status	Pas s																																																						
TC 015	View completed complaints for visitor	System is up and Runnin g	1.click view complaints	View complaints	<div><div>Ministry of Education</div><div>HOME CONTACT VIEW COMPLAINTS</div><table><tr><th>Complainer</th><th>School Name</th><th>City</th><th>District</th><th>Type</th><th>Complainant</th></tr><tr><td>leo</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHER</td></tr><tr><td>leo</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>facilities</td><td>need another</td></tr><tr><td>leo</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHER</td></tr><tr><td>tony</td><td>AMAL INTERNATIONAL</td><td>COLOMBO</td><td>COLOMBO</td><td>student's discipline</td><td>STUDENT'S</td></tr><tr><td>leo</td><td>ZAHIRA COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHER'S</td></tr><tr><td>tony</td><td>AMAL INTERNATIONAL</td><td>COLOMBO</td><td>COLOMBO</td><td>facilities</td><td>TEACHER</td></tr><tr><td>khalid</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHER</td></tr><tr><td>kili</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHER</td></tr></table></div>	Complainer	School Name	City	District	Type	Complainant	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	need another	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER	tony	AMAL INTERNATIONAL	COLOMBO	COLOMBO	student's discipline	STUDENT'S	leo	ZAHIRA COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER'S	tony	AMAL INTERNATIONAL	COLOMBO	COLOMBO	facilities	TEACHER	khalid	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER	kili	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER	Pas s
Complainer	School Name	City	District	Type	Complainant																																																							
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leo	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER																																																							
tony	AMAL INTERNATIONAL	COLOMBO	COLOMBO	student's discipline	STUDENT'S																																																							
leo	ZAHIRA COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER'S																																																							
tony	AMAL INTERNATIONAL	COLOMBO	COLOMBO	facilities	TEACHER																																																							
khalid	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER																																																							
kili	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER																																																							

TC 016	View added complaints for complainer	System is up and Running	1.click added complaints	View complaints	<div>View Complaints</div> <table><tr><th>Complaint ID</th><th>Added Complaints</th><th>Complain Status</th></tr><tr><td>1</td><td>TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME</td><td>COMPLETED</td></tr><tr><td>3</td><td>NEED A GOOD DRAINAGE SYSTEM</td><td>IN-PROGRESS</td></tr><tr><td>7</td><td>TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME</td><td>OUT OF SCOPE</td></tr><tr><td>8</td><td>need another IT building</td><td>COMPLETED</td></tr><tr><td>9</td><td>TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME</td><td>COMPLETED</td></tr><tr><td>10</td><td>NEED A GOOD DRAINAGE SYSTEM</td><td>OUT OF SCOPE</td></tr><tr><td>12</td><td>TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME</td><td>IN-PROGRESS</td></tr><tr><td>14</td><td>TEACHERS TALK TO MUCH</td><td>COMPLETED</td></tr></table>	Complaint ID	Added Complaints	Complain Status	1	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED	3	NEED A GOOD DRAINAGE SYSTEM	IN-PROGRESS	7	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	OUT OF SCOPE	8	need another IT building	COMPLETED	9	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED	10	NEED A GOOD DRAINAGE SYSTEM	OUT OF SCOPE	12	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	IN-PROGRESS	14	TEACHERS TALK TO MUCH	COMPLETED	Pas s																																																																																					
Complaint ID	Added Complaints	Complain Status																																																																																																																				
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12	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	IN-PROGRESS																																																																																																																				
14	TEACHERS TALK TO MUCH	COMPLETED																																																																																																																				
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23	clayjenson@gmail.com	ROYAL COLLEGE	COLOMBO	COLOMBO	bribery	Mushin rape girls	COMPLETED																																																																																																															
TC 018	View all users for admin	System is up and Running	1.click view all users	Viewing all users	<div>HOME VIEW ALL COMPLAINTS VIEW ALL USERS MESSAGES LOG OUT</div> <table><tr><th>First Name</th><th>Last Name</th><th>Email</th><th>Password</th><th>Role</th><th>Number</th><th>Action</th></tr><tr><td>afiq</td><td>alazath</td><td>afiq</td><td>123</td><td>complainer</td><td>714842136</td><td>DELETE USER</td></tr><tr><td>asif</td><td>shakib</td><td>asif</td><td>123</td><td>admin</td><td>714842136</td><td>DELETE USER</td></tr><tr><td>bryce</td><td>walker</td><td>bryce@gmail.com</td><td>123</td><td>admin</td><td>714842136</td><td>DELETE USER</td></tr><tr><td>clay</td><td>jenson</td><td>clayjenson@gmail.com</td><td>123</td><td>complainer</td><td>714842136</td><td>DELETE USER</td></tr><tr><td>justin</td><td>foley</td><td>justin@gmail.com</td><td>123</td><td>complainer</td><td>714842136</td><td>DELETE USER</td></tr><tr><td>leo</td><td>messi</td><td>leo</td><td>123</td><td>complainer</td><td>714842136</td><td>DELETE USER</td></tr><tr><td>sanju</td><td>dev</td><td>sanju</td><td>123</td><td>complaintHandler</td><td>713561835</td><td>DELETE USER</td></tr><tr><td>tony</td><td>padilla</td><td>tony</td><td>123</td><td>complainer</td><td>714842136</td><td>DELETE USER</td></tr></table>	First Name	Last Name	Email	Password	Role	Number	Action	afiq	alazath	afiq	123	complainer	714842136	DELETE USER	asif	shakib	asif	123	admin	714842136	DELETE USER	bryce	walker	bryce@gmail.com	123	admin	714842136	DELETE USER	clay	jenson	clayjenson@gmail.com	123	complainer	714842136	DELETE USER	justin	foley	justin@gmail.com	123	complainer	714842136	DELETE USER	leo	messi	leo	123	complainer	714842136	DELETE USER	sanju	dev	sanju	123	complaintHandler	713561835	DELETE USER	tony	padilla	tony	123	complainer	714842136	DELETE USER	Pas s																																																	
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clay	jenson	clayjenson@gmail.com	123	complainer	714842136	DELETE USER																																																																																																																
justin	foley	justin@gmail.com	123	complainer	714842136	DELETE USER																																																																																																																
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tony	padilla	tony	123	complainer	714842136	DELETE USER																																																																																																																

TC 019	View visitor messages for admin	System is up and Running	1.click messages	View messages	<div><div>Ministry of Education</div><div>HOMEVIEW ALL COMPLAINTSVIEW ALL USERSMESSAGESLOG OUT</div><div>Welcome null</div><table><tr><th>Full Name</th><th>Email</th><th>Subject</th><th>Message</th></tr><tr><td>ashif</td><td>ashif@gmail.com</td><td>teaching</td><td>will i get a job</td></tr><tr><td>ashif</td><td>ashif@gmail.com</td><td>teaching</td><td>will i get a job</td></tr><tr><td>ashif</td><td>ashif@gmail.com</td><td>teaching</td><td>will i get a job</td></tr><tr><td>leo messi</td><td>leomessi@gmail.com</td><td>about soccer unit</td><td>we need a soccer field</td></tr><tr><td>leo messi</td><td>leomessi@gmail.com</td><td>about soccer unit</td><td>will i get a job</td></tr><tr><td>Luis</td><td>Suarez</td><td>About Soccer File</td><td>need a good maintenance of the soccer field</td></tr></table></div>	Full Name	Email	Subject	Message	ashif	ashif@gmail.com	teaching	will i get a job	ashif	ashif@gmail.com	teaching	will i get a job	ashif	ashif@gmail.com	teaching	will i get a job	leo messi	leomessi@gmail.com	about soccer unit	we need a soccer field	leo messi	leomessi@gmail.com	about soccer unit	will i get a job	Luis	Suarez	About Soccer File	need a good maintenance of the soccer field	Pas s																	
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Luis	Suarez	About Soccer File	need a good maintenance of the soccer field																																																
TC 020	View accepted complaints for Complaint handler	System is up and Running	1.log in as complaint handler	View accepted complaints	<div><div>Ministry of Education</div><div>HOMESEARCH COMPLAINTSLOG OUT</div><div>Welcome sanju</div><table><tr><th>ID</th><th>Complainer</th><th>School Name</th><th>City</th><th>District</th><th>Type</th><th>Complaint Details</th><th>Action</th><th>Status</th></tr><tr><td>1</td><td>leo</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME</td><td>COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> submit</td><td>COMPLETED</td></tr><tr><td>3</td><td>leo</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>facilities</td><td>NEED A GOOD DRAINAGE SYSTEM</td><td>COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> submit</td><td>IN-PROGRESS</td></tr><tr><td>7</td><td>leo</td><td>ROYAL COLLEGE</td><td>anuradhapura</td><td>anuradhapura</td><td>teacher's discipline</td><td>TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME</td><td>COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> submit</td><td>OUT OF SCOPE</td></tr><tr><td>8</td><td>leo</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>facilities</td><td>need another IT building</td><td>COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> submit</td><td>COMPLETED</td></tr></table></div>	ID	Complainer	School Name	City	District	Type	Complaint Details	Action	Status	1	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> submit	COMPLETED	3	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	NEED A GOOD DRAINAGE SYSTEM	COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> submit	IN-PROGRESS	7	leo	ROYAL COLLEGE	anuradhapura	anuradhapura	teacher's discipline	TEACHER MOSTLY USING PHONE DURING THE LECTURE TIME	COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> submit	OUT OF SCOPE	8	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	need another IT building	COMPLETED: <input type="checkbox"/> IN-PROGRESS: <input type="checkbox"/> OUT OF SCOPE: <input type="checkbox"/> submit	COMPLETED	Pas s
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TC 021	View list select complaint type	System is up and Running	1.select drop list of select complaint Type	View drop list	<div>Select Complaint Type:</div> <div><div>✓ Facilities</div><div>Safety</div><div>Monitory</div><div>Student's Discipline</div><div>Teacher's Discipline</div><div>Harassment</div><div>Bribery</div><div>Other</div></div>	Pas s																																													

TC 022	View add complaint form	System is up and Running	1.click “add c complaint”	View form	<div>Add your Complaint</div> <div><div>Enter School Name:</div><div></div></div> <div><div>Enter City:</div><div></div></div> <div><div>Enter District:</div><div></div></div> <div><div>Select Complaint Type:</div><div>Facilities</div></div> <div><div>Enter the Complaint(Details):</div><div>Enter your Complaint</div></div> <div>SUBMIT</div> <div>Home Page</div>	Pas s																																																						
TC 023	View contact form for visitor	System is up and Running	Click contact	View form	<div>Contact</div> <div><div>Full Name:</div><div>Full Name</div></div> <div><div>Email:</div><div>Subject</div></div> <div><div>subject:</div><div>message about?</div></div> <div><div>Leave a message:</div><div>Message</div></div> <div>Submit</div>	Pas s																																																						
TC 024	Complaint directs to visitor after complaint Handler adding status	System is up and Running	Click view complaints	View complaints	<div><div>Ministry of Education</div><div><div>HOME</div><div>CONTACT</div><div>VIEW COMPLAINTS</div></div><div><table><tr><th>Complainer</th><th>School Name</th><th>City</th><th>District</th><th>Type</th><th>Complain</th></tr><tr><td>leo</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHER</td></tr><tr><td>leo</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>facilities</td><td>need anot</td></tr><tr><td>leo</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHER</td></tr><tr><td>tony</td><td>AMAL INTERNATIONAL</td><td>COLOMBO</td><td>COLOMBO</td><td>student's discipline</td><td>STUDENTS</td></tr><tr><td>leo</td><td>ZAHIRA COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHERS</td></tr><tr><td>tony</td><td>AMAL INTERNATIONAL</td><td>COLOMBO</td><td>COLOMBO</td><td>facilities</td><td>TEACHER</td></tr><tr><td>khalid</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHER</td></tr><tr><td>kili</td><td>ROYAL COLLEGE</td><td>COLOMBO</td><td>COLOMBO</td><td>teacher's discipline</td><td>TEACHER</td></tr></table></div></div>	Complainer	School Name	City	District	Type	Complain	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	facilities	need anot	leo	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER	tony	AMAL INTERNATIONAL	COLOMBO	COLOMBO	student's discipline	STUDENTS	leo	ZAHIRA COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHERS	tony	AMAL INTERNATIONAL	COLOMBO	COLOMBO	facilities	TEACHER	khalid	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER	kili	ROYAL COLLEGE	COLOMBO	COLOMBO	teacher's discipline	TEACHER	Pas s
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0.3 Conclusion

3.1 Reflection

This project is based on to solve the student educational issues. so, by adding complaints government can take actions to their issues. I gathered useful knowledge about Handling JSP, JSTL and CSS.

3.2 Strengths and Weaknesses

Strengths	Weaknesses
Helps students to complaint about their Education issues directly.	Can't verify the added complaints accurate or not.
Eye catching Graphical frontend	No Firewall protection

3.3 Future Enhancement

Future of this Project directs to verify the adding complaint method more accurate.