Increment – 1

Submitted by

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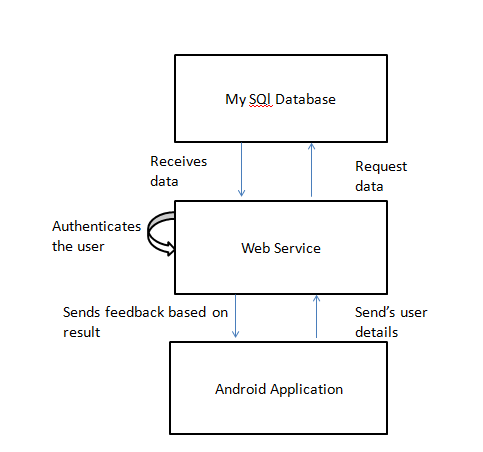
Sasya Malireddy(class id 31).

Created an android login page which uses My SQl database to store the data and a java web service to retrieve the data in order to authenticate the user.

Components required:

1. MySQL database
2. Webserver deployed on Tomcat
3. Android Studio to make app

Design of Mobile Client Interface :



1. Database:

Steps:

1. Created a database for android using MySQl command line client .

Query Used:

“ Create database Android; ”

1. Selecting the database

Query Used:

“ Use Android ; ”

1. Creating a user table in the database

Query Used:

“ create table User( UserName varchar(15), Password varchar(15)); ”

1. Entering some user information into database

Query Used:

“ Insert into User (UserName, Password) values (‘anvitha’, ‘Alliswell’); ”

1. Creating a Java webservice:

We created it using eclipse. First we configured Tomcat for eclipse, as we required development environment to create a java web service. A new server is created and started .Later created a web server using Axis2 in eclipse using SOAP engine. A JDBC connector is imported to project.

Java WebService Program:

“ public class Login{

 public String authentication(String UserName, String Password){

  String RetrieveUserName = "";

  String RetrievePassword = "";

  String Status = "";

  try{

   Class.forName("mysql.jdbc.Driver");

   Connection c = DriverManager.getConnection("jdbc:[mysql://localhost:8080/Android](mysql://localhost:3306/androidlogin)","SQL","Oracle");

   PreparedStatement statement =  c.prepareStatement("Select \* from user where UserName = '"+UserName+"'");

   ResultSet r = statement.executeQuery();

   while(r.next()){

    retrieveUserName = r.getString("UserName");

    retrievePassword = r.getString("Password");

    }

   if(retrieveUserName.equals(UserName)&&retrievePassword.equals(Password)){

    Status = "Login Success!!!!";

  }

   else{

    Status = "Incorrect Details!!!";

   }

  }

  catch(Exception e){

   e.printStackTrace();

System .out.println(e);

  }

  return Status;

 }

}

”

1. Android Login Page :

Mainactivity.java code:

“

public class AndroidLogin extends Main\_Activity {

 private final String name\_space = “<http://UserLogin.com>";

    private final String URL = "<http://101.263.126.12:8080/Android/services/Login?wsdl>";

    private final String soapACTION = "<http://UserLogin.com/Authentication>";

    private final String methodName = "Authentication";

        @Override

    public void onCreate(Bundle savedInstanceState)

{

SetContentView (R.layout.Activity\_main);

  super.onCreate (savedInstanceState);

        Button Login = (Button) findViewById (R.id.login1);

        Login.setOnClickListener (new View.OnClickListener ()

{

   public void onClick(View V) {

    loginAction();

    }

   });

     }

    private void loginAction(){

     SoapObject Req = new SoapObject(name\_space, method\_name);

        EditText UserName = (EditText) findViewById(R.id.UserName1);

        String userName1 = UserName.getText().toString();;

        EditText UserPassword = (EditText) findViewById(R.id.password1);

        String userPassword1 = UserPassword.getText().toString();

        PropertyInfo unameProp1 =new PropertyInfo();

        unameProp.setName("UserName");

        unameProp.setValue(userName1);

        unameProp.setType(String.class);

        request.addProperty(unameProp);

        PropertyInfo passwordProp =new PropertyInfo();

        passwordProp.setName("Password");

        passwordProp.setValue(userPassword1);

        passwordProp.setType(String.class);

        request.addProperty(passwordProp);

        SoapSerializationEnvelope e = new SoapSerializationEnvelope(SoapEnvelope.VER10);

        e.setOutputSoapObject(req);

        HttpTransportSE httpTransport = new HttpTransportSE(URL);

        try{

            httpTransport.call(SOAP\_ACTION, envelope);

               SoapPrimitive res = (SoapPrimitive) envelope.getResponse();

               TextView r = (TextView) findViewById(R.id.status);

               r.setText(res.toString());

        }

        Catch (Exception exp)

{

System.out.println(exp);

        }

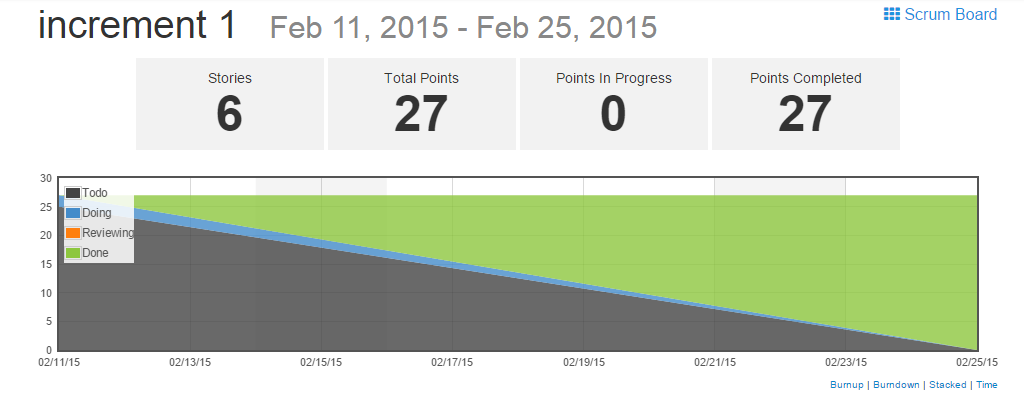
       }

}”

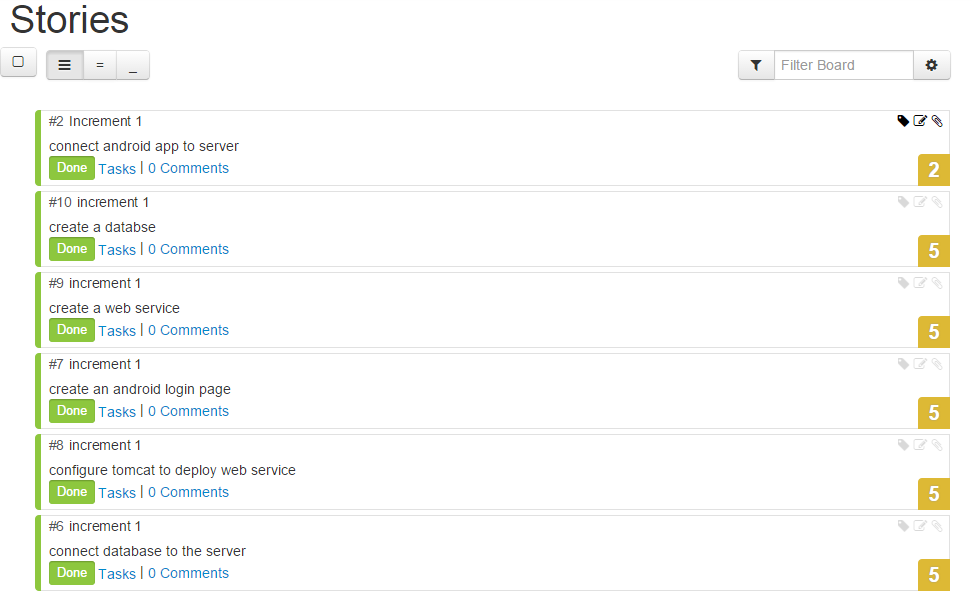
2) Need to add internet permission in manifest.xml file

ScrumDo:

Stories:

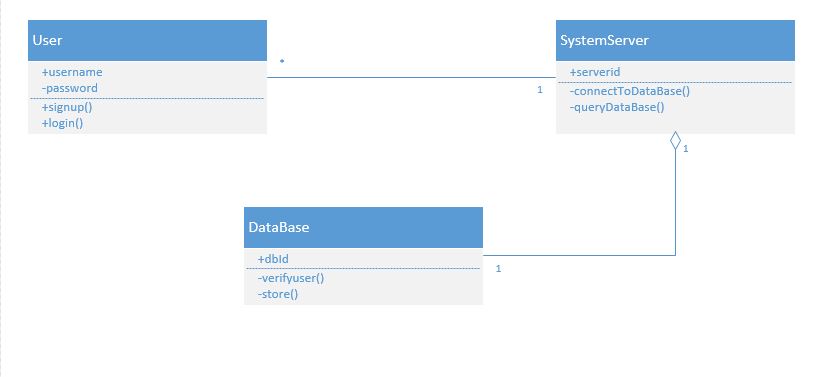


Stories in first increment:

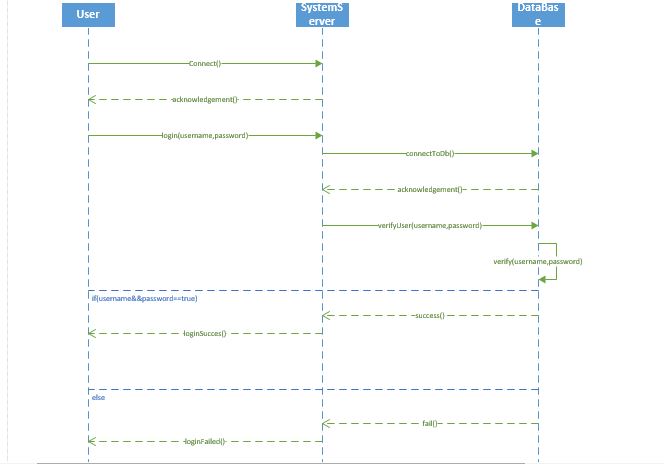


Service description: When user enters his credentials like username and password and clicks login the web services collects those details and reads the data from database and authenticates the user.

Class diagram:



Sequence Diagram:



REST service implemented:

When User clicked login the user details are posted to the server and got authenticated.

GitHub Link:

<https://github.com/anvithachowdarydhanekula/AndroidLogin>

ScrumDo link:

<https://www.scrumdo.com/projects/project/giveaway1/iteration/121750>