

PROJECT THESIS

Server Code

```
package com.pgx.java.socket;

import java.net.*;
import java.io.*;
import java.awt.datatransfer.*;
import java.awt.Toolkit;

public class server extends Thread {

    private ServerSocket serverSocket;

    public server(int port) throws IOException {

        serverSocket = new ServerSocket(port);

    }

    @SuppressWarnings("deprecation")
    public void run() {

        while(true) {

            try {

                System.out.println("Waiting for client on port " +

                    serverSocket.getLocalPort() + "...");

                Socket server = serverSocket.accept();

                System.out.println("Just connected to " + server.getRemoteSocketAddress());

                DataInputStream in = new DataInputStream(server.getInputStream());
```

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Runtime runtime = Runtime.getRuntime(); //getting Runtime object

String a = in.readUTF();

try
{
    if(a.equals("0")) {

        System.out.println("launching chrome");

        String s[] = new String[] {"C:\\Program Files
(x86)\\Google\\Chrome\\Application\\chrome.exe"};

        runtime.exec(s);

    }

    else if(a.equals("1")) {

        System.out.println("launching dictionary");

        String s[] = new String[] {"C:\\Program Files (x86)\\WordWeb\\wwweb32.exe"};

        runtime.exec(s);

    }

    else if(a.equals("2")) {

        System.out.println("launching opera");

        String s[] = new String[] {"C:\\Program Files\\Opera\\launcher.exe"};

        runtime.exec(s);

    }

    else if(a.equals("3")) {

        System.out.println("launching powerpoint");

        String s[] = new String[] {"C:\\Program Files\\Microsoft
Office\\root\\Office16\\POWERPNT.EXE"};

        runtime.exec(s);

    }
}

```

```

else if(a.equals("4")) {

    System.out.println("launching photoshop");

    String s[] = new String[] {"C:\\Program Files\\Adobe\\Adobe Photoshop CC
2018\\Photoshop.exe"};

    runtime.exec(s);

}

else if(a.equals("5")) {

    System.out.println("launching teamviewer");

    String s[] = new String[] {"C:\\Program Files (x86)\\TeamViewer\\TeamViewer.exe"};

    runtime.exec(s);

}

else if(a.equals("6")) {

    System.out.println("launching video");

    String s[] = new String[] {"C:\\Program Files (x86)\\Windows Media
Player\\wmplayer.exe"};

    runtime.exec(s);

}

else if(a.equals("7")) {

    System.out.println("launching word");

    String s[] = new String[] {"C:\\Program Files\\Microsoft
Office\\root\\Office16\\WINWORD.EXE\\"};

    runtime.exec(s);

}

else {

    if(a.substring(0,1).equals("8")) {

        System.out.println("launching "+a.substring(1));

        String s = "C:\\Windows\\System32\\notepad.exe sample.txt";

        Process process = runtime.exec(s);

    }

}

```

```

else
{
    System.out.println(a+" is copied to clipboard");

    StringSelection stringSelection = new StringSelection(a);

    Clipboard clipboard = Toolkit.getDefaultToolkit().getSystemClipboard();

    clipboard.setContents(stringSelection, null);
}

}

//opens new notepad instance

//OR runtime.exec("notepad");
}
catch (IOException e)
{
    e.printStackTrace();
}

DataOutputStream out = new DataOutputStream(server.getOutputStream());
out.writeUTF("Thank you for connecting to " + server.getLocalSocketAddress()
+ "\nGoodbye!");
server.close();

} catch (SocketTimeoutException s) {

    System.out.println("Socket timed out!");

    break;
} catch (IOException e) {

    e.printStackTrace();

```

```

        break;
    }
}
}

public static void main(String [] args) {

    int port = 5555;

    try {

        Thread t = new server(port);

        t.start();

    } catch (IOException e) {

        e.printStackTrace();

    }

}
}

```

Android client code

```

package com.example.keshh.myapplication;

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.os.IBinder;
import android.support.annotation.Nullable;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.EditText;
import android.widget.GridView;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    EditText e1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        GridView gridView = (GridView) findViewById(R.id.gridview);
        gridView.setAdapter(new ImageAdapter(this));

        gridView.setOnItemClickListener(new AdapterView.OnItemClickListener() {

```

```

        public void onItemClick(AdapterView<?> parent, View v,
                                int position, long id) {
            MessageSender msg = new MessageSender();
            msg.execute(position+"");
        }
    });
}

public void send(View V){
    System.out.println("Sent");
    e1 = (EditText)findViewById(R.id.editText);
    MessageSender msg = new MessageSender();
    msg.execute(e1.getText().toString());
}

}

package com.example.keshh.myapplication;

import android.content.Context;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.ImageView;

public class ImageAdapter extends BaseAdapter {
    private Context mContext;

    public ImageAdapter(Context c) {
        mContext = c;
    }

    public int getCount() {
        return mThumbIds.length;
    }

    public Object getItem(int position) {
        return null;
    }

    public long getItemId(int position) {
        return 0;
    }

    // create a new ImageView for each item referenced by the Adapter
    public View getView(int position, View convertView, ViewGroup parent) {
        ImageView imageView;
        if (convertView == null) {
            // if it's not recycled, initialize some attributes
            imageView = new ImageView(mContext);
            imageView.setLayoutParams(new ViewGroup.LayoutParams(185, 185));
            imageView.setScaleType(ImageView.ScaleType.CENTER_CROP);
            imageView.setPadding(8, 8, 8, 8);
        } else {
            imageView = (ImageView) convertView;
        }

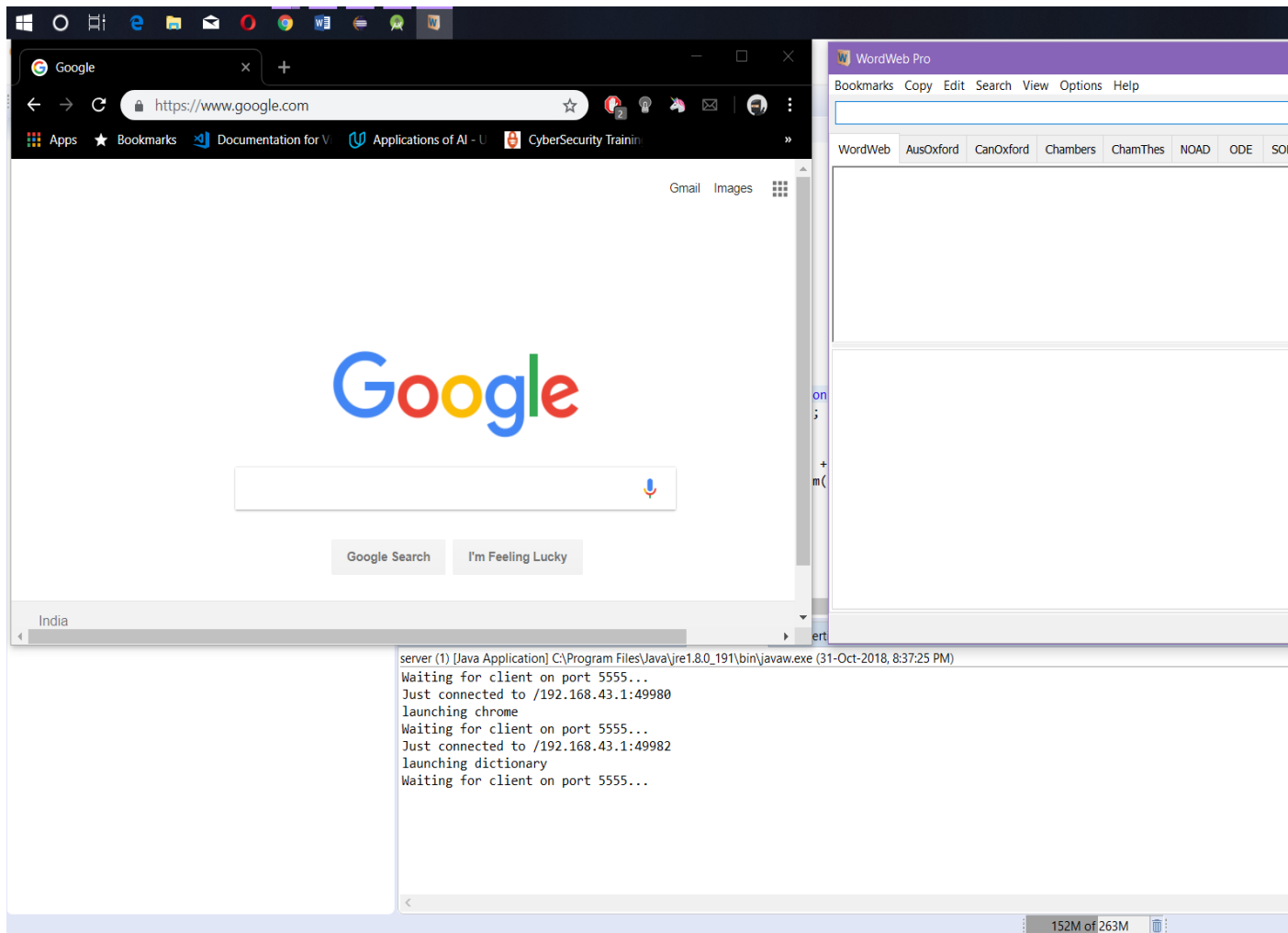
        imageView.setImageResource(mThumbIds[position]);
        return imageView;
    }

    // references to our images
    private Integer[] mThumbIds = {
        R.drawable.chrome, R.drawable.dict,
        R.drawable.opera, R.drawable.ppt,
        R.drawable.ps, R.drawable.team,
        R.drawable.video, R.drawable.word
    }
}

```

```
} ;  
}
```

Output



20:39

4G

Network and Comm Project



SEND