

## CECS 277 – Lecture 23 – Reading Web Pages

Applets and Applications can be used to render web documents and retrieve files from the internet. Two components are necessary, someplace to type in the web address, and someplace to display the retrieved HTML document. A JTextField allows the user to type in an address and a JEditorPane is used to display the HTML document. A URL object is used to retrieve the HTML document from the web server given an address.

**Example:** A Web Browser.

```
import java.awt.*;
import java.awt.event.*;
import java.net.*;
import javax.swing.*;

public class WebBrowser extends JFrame implements ActionListener{
    JEditorPane window;
    JTextField address;

    public WebBrowser() {
        super("Innernet Explorers");
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setSize(900,600);
        setLayout(new FlowLayout());
        address = new JTextField("http://", 35);
        address.addActionListener(this);
        add(address);

        window = new JEditorPane();
        window.setEditable(false);
        add(window, BorderLayout.CENTER);
        setVisible(true);
    }

    public void actionPerformed(ActionEvent a) {
        try {
            URL url = new URL(a.getActionCommand());
            window.setPage(url);
        } catch (Exception e) {
            System.out.println("Error");
        }
    }

    public static void main(String[] args) {
        new WebBrowser();
    }
}
```