

Code Review / Debugging assignment

Code needs some corrections:

- User interface shows subscription, unsubscription, and image attachment in messages. But it actually does not communicate with the server. From the code inspection, no evidence of server communication could be found.
- Login screen could have been better. Home page alignment is good.
- Did not implement. It was not there in the demonstration video. I could not find it in code inspection as well.
- Voice-over could have been good. Subscription and unsubscription are shown. Message reading from the server is not understandable from the demonstration.

```
package Main;

import javafx.scene.media.MediaPlayer;
import org.json.simple.*; // required for JSON encoding and decoding

public class PublishRequest extends Request {
    // class name to be used as tag in JSON representation
    private static final String _class =
        PublishRequest.class.getSimpleName();

    private String identity;
    private Message message;

    // Constructor; throws NullPointerException if message is null.
    public PublishRequest(String identity, Message message) {
        // check for null
        if (identity == null)
            throw new NullPointerException();
        this.identity = identity;

        // check for null
        if (message == null)
            throw new NullPointerException();
        this.message = message;
    }

    Message getMessage() { return message; }
    // Serializes this object into a JSONObject
    @SuppressWarnings("unchecked")
    public Object toJSON() {
        JSONObject obj = new JSONObject();
        obj.put("_class", _class);
        obj.put("identity", identity);
        obj.put("message", message.toJSON());        return
        obj;
    }
}
```

```

package Main;

import org.json.simple.*; // required for JSON encoding and decoding

public class QuitRequest extends Request {
    // class name to be used as tag in JSON representation
    private static final String _class =
QuitRequest.class.getSimpleName();

    // Constructor; no arguments as there are no instance fields
    public QuitRequest() {}

    // Serializes this object into a JSONObject
    @SuppressWarnings("unchecked")
    public Object toJSON() {
        JSONObject obj = new JSONObject();
        obj.put("_class", _class);        return
obj;
    }

    // deserialize a QuitRequest instance from a JSONObject.
    public static QuitRequest fromJSON(Object val) {
try {
        JSONObject obj = (JSONObject)val;
        // check for _class field matching class name
        if (!_class.equals(obj.get("_class")))
return null;
        // construct the new object to return
return new QuitRequest();
    } catch (ClassCastException | NullPointerException e) {
return null;
    }
}
}
}

```