CS 522—Mobile Systems and Applications
Assignment Seven—Cloud Chat App

10: App registration: generate a UUID and save it in shared preferences.

10: ServiceHelper class used by UI to access Web services

10: RequestService (extending IntentService) for performing Web service requests on background thread (serializing service requests through the service handler thread).

10: RequestProcessor provides business logic for Web service request processing.

15: RestMethod provides logic for performing HTTP requests (using code samples from notes).

10: Sync operation should use streaming http: RestMethod operation returns StreamingResponse (pair of HttpURLConnection and Response). Sending of JSON data, and receipt of JSON response, is done by RequestProcessor (for sync operation) by reading and writing streams in the HttpURLConnection.

15: RequestProcessor implements sync protocol in the assignment spec: upload new operations, download new operations (version number greater than current version number) from the service.

10: Use AlarmManager to schedule periodic synchronizations.

10: Json data is read using JsonReader, and written using JsonWriter.

Correctness:
20: Messages are successfully uploaded to the server.
20: Messages from another client are successfully downloaded from the server.

10: Report