Application Design

The Android Application

1. The specifications of lower levels of granularity

The android application

* Users will also have to be able to login to the application using their CS details. Users that should be able to use the application are markers, lecturers and students (who have android smart phones)

Students:

* Students should be able to check their marks with the android application.

Markers:

* After logging in markers will be able to insert the marks of students that have been assigned to them, for the subject they are marking. They should only be able to insert marks during the practical session (unless otherwise stated).
* Markers can edit student marks but only for a reasonable circumstance.
* Markers can search for students by student number, name and surname.
* Marks will be saved locally between updates to the server, so if anything happens to the application or the phone information will be saved, therefore no need to reinsert data already done

Lecturers:

* Lecturers should be able to login and choose between a menu of creating a session or viewing marks.
* When creating a session, a day, time and duration of the session should be assigned
* When assigning students and markers to session, they can be searched for by using student numbers, names and surnames. Multiple students can be assigned to a session by marking the students with a radio button.
* After assigning students and markers information should be saved locally between updates to the server.
* The system should log out after no more than 10 minutes of not being used.
* The mobile uses MySQL database which it interacts with via the server.
* Updates between the application and the server should be saved locally on the mobile memory.
* When a mark is sent to the system it should be checked to see if it was actually inserted, if not it should try again, if repeated failures are encountered an exception should be thrown telling the user to either retry or try to upload the marks later.
* Mark sheets should lock after the practical session has ended, so that no more marks can be inserted (unless otherwise stated).

Workflow activity

