Software Requirements Specification

Computer Science Marks System $_{\text{Version: 0.1}}$

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1 UI Screen Designs and User Work-Flow Specification

This section will look at how the system will be used by the different users. Each functional requirement will be accompanied by the appropriate screen designs (The web and mobile user interfaces).

1.1 Log In

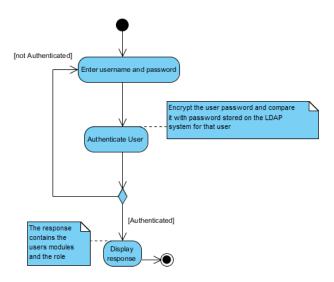


Figure 1: User log in activity diagram.

The activity diagram above is a abstract depiction of what will happen when a user logs into the system. After the user gets authenticated by the system, the authentication response object will contain the users information (the modules and roles) as shown in Figure 3 and 5.

1.1.1 Mobile Interface Screen Designs

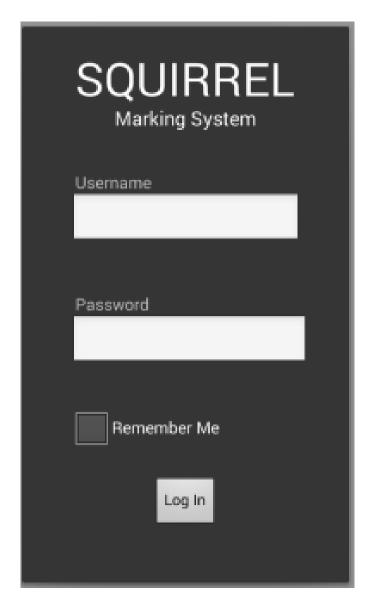


Figure 2: The mobile log in screen design.



Figure 3: Screen design of a successfull log in request.

Figure 3 shows the modules the user is associated with and the roles users have for particular module.

1.1.2 Web Interface Screen Designs

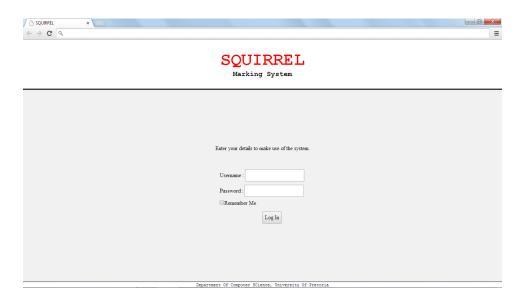


Figure 4: Screen design for web interface

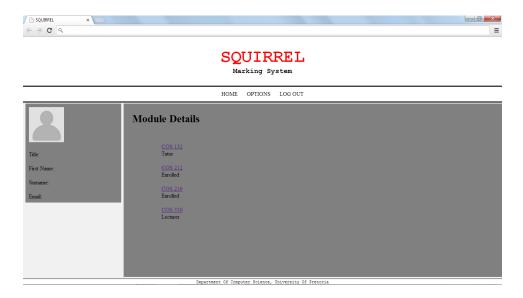


Figure 5: This is the welcome page the user sees after successfully being authenticated.

1.2 Assessment Creation

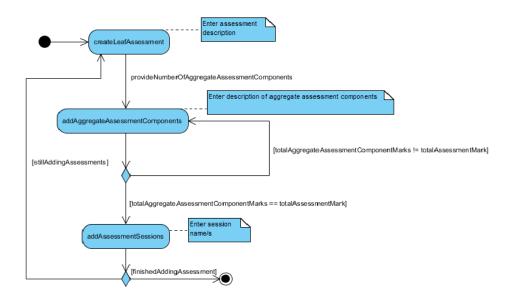


Figure 6: Activity diagram for creating atomic leaf assessments, aggregate assessments as well as sessions for the atomic assessments.

The assessment creation operation is only available to lecturers and only has the web interface as shown below.

1.2.1 Web Interface Screen Designs

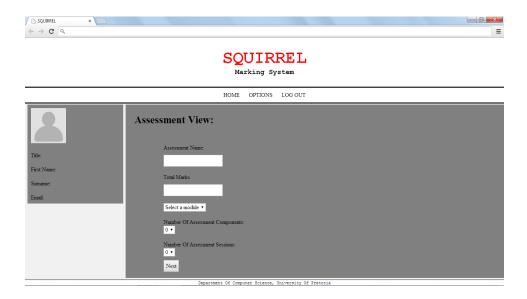


Figure 7: Screen design for creating an atomic assessment.

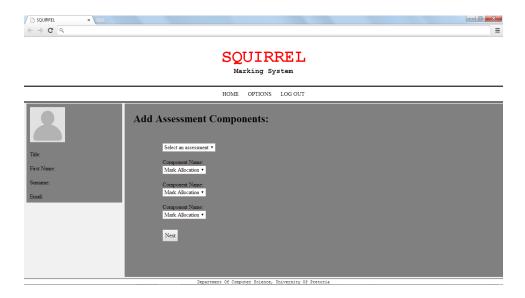


Figure 8: Screen design for adding aggregate assessments.

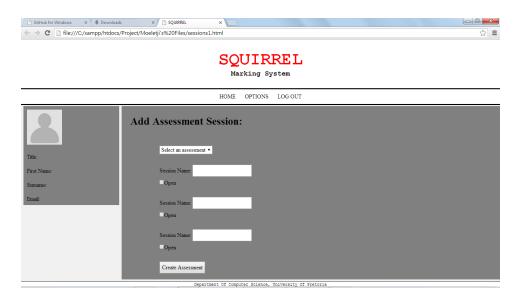


Figure 9: Screen design for adding sessions for an atomic assessment.

1.3 Marks Management

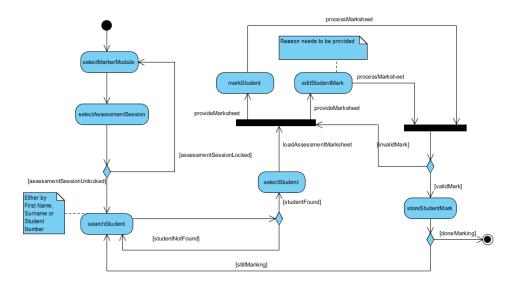


Figure 10: Activity diagram depiction of how a student would get marked.

The activity diagram(Figure 10) depicts how a marker would go about marking a student. The activity diagram is closely linked with the screen designs as it shows how the user would go about marking a student.

1.3.1 Mobile Interface Screen Designs

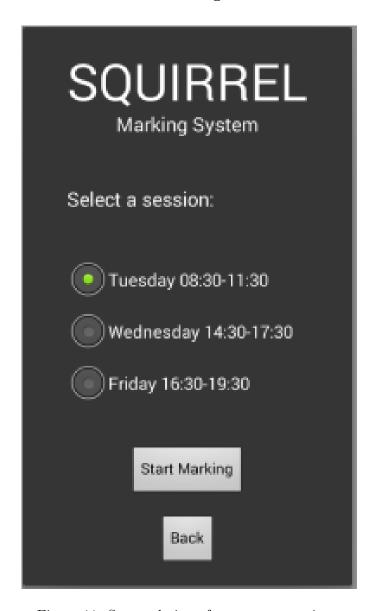


Figure 11: Screen design of assessment sessions.

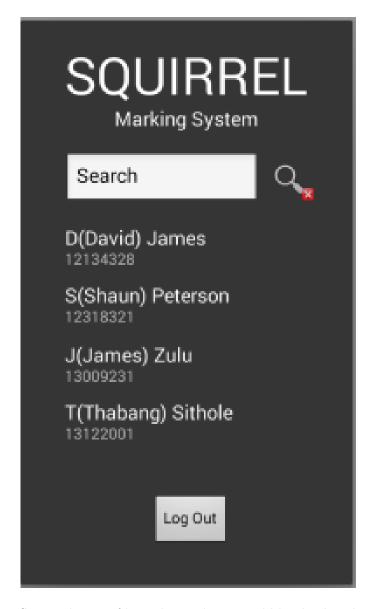


Figure 12: Screen design of how the students would be displayed and search for on the system.

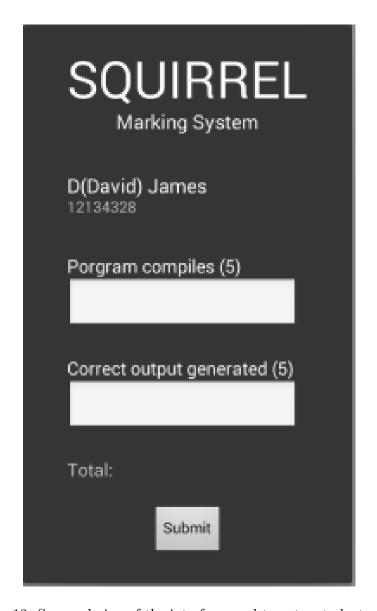


Figure 13: Screen design of the interface used to enter student marks.

1.3.2 Web Interface Screen Designs

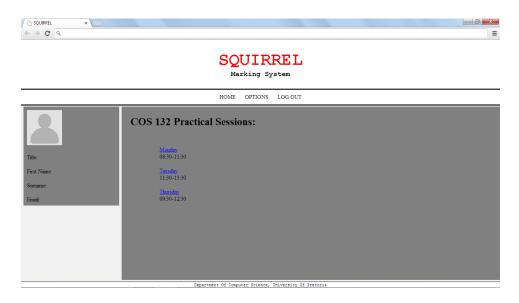


Figure 14: List of available marking sessions.

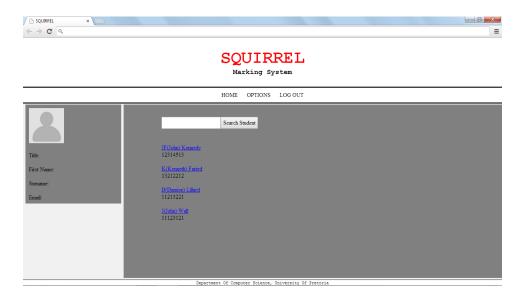


Figure 15: List of students in the sessions who need to be marked.

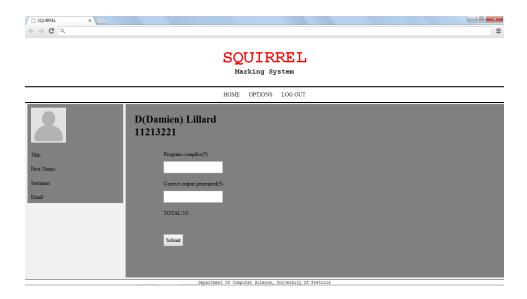


Figure 16: A student being marked.

1.4 Reporting

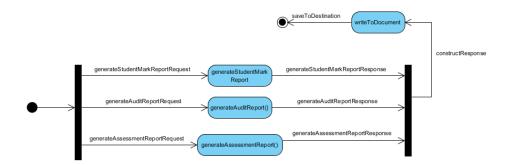


Figure 17: Activity diagram of how reports would be generated by users.

Students will be able to generate their mark reports on either platform(mobile or web interface), while lecturers will only be able to generate assessment and audit reports via the web interface.

1.4.1 Mobile Interface Screen Designs

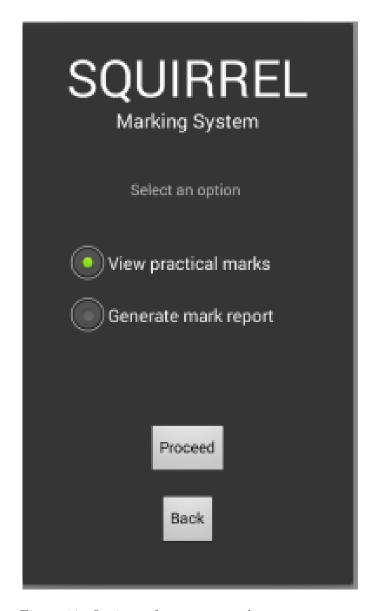


Figure 18: Options of reports a student can generate.

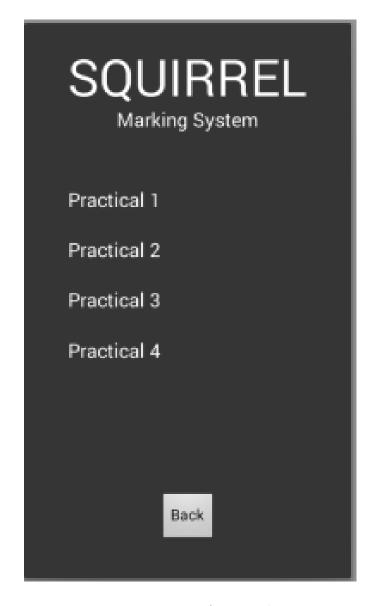


Figure 19: List of practicals.

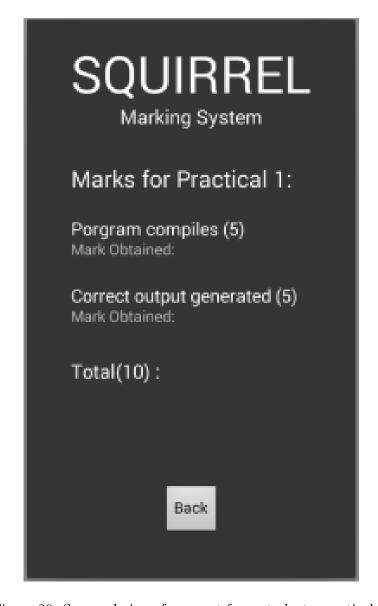


Figure 20: Screen design of a report for a students practical 1.

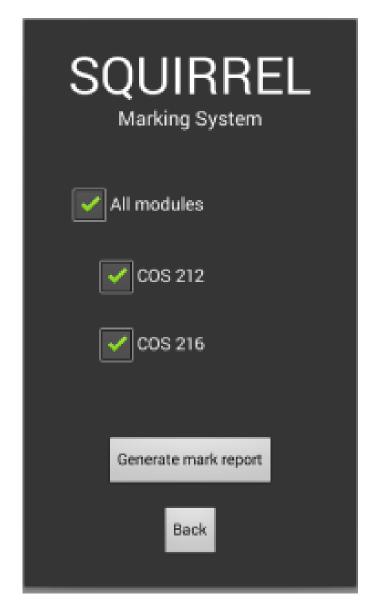


Figure 21: Screen design for generating a students' mark report.

1.4.2 Web Interface Screen Designs

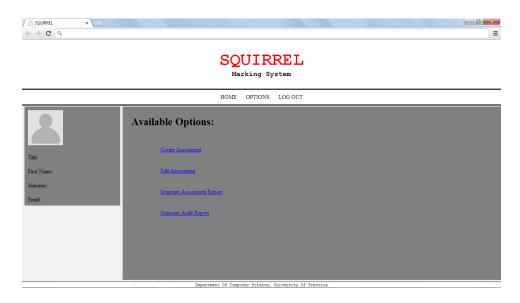


Figure 22: Report options lecturers have.

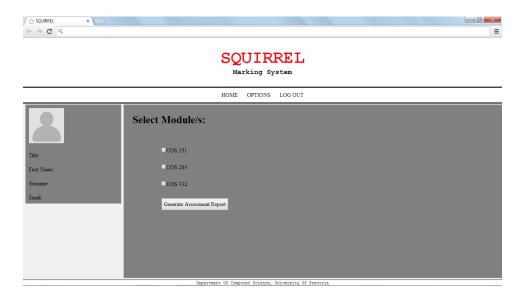


Figure 23: Screen design for generating assessment reports.

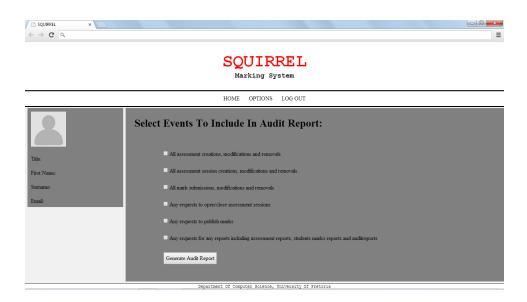


Figure 24: Screen design for generating audit reports.