APPENDIX D

VIDEO TRANSCRIPT

INTRODUCTION TO APPLICATION

Hello and welcome to my Computer Science internal assessment. This is a mobile application built using Android Studio IDE for my client, Suyash Kothari. Suyash is the head of the student leadership team in my school and the purpose of this application is to help him collect transparent feedback from the student body on various issues in the community.

SUCCESS CRITERIA 1: REGISTER USERS

Success criteria 1 requires the app to be able register individual users and add their details in the database. Using the normal data from Test Number 1, as seen in the test plan of Section B, we enter the following details and press the create account button. This will give us the confirmation message as seen here. We can confirm the data has been added by refreshing the database.

VALIDATION

There are numerous validation checks incorporated in this feature. Firstly, if no password is provided, an error message asking for a password is provided. Secondly, if the username is of the incorrect format, then a warning is given as well. The format is specified in the heading. My client asked me to ensure all usernames followed this format as his school system used this formatting.

SUCCESS CRITERIA 2: LOG IN THE APP

Success criteria 2 requires the app to be able to log in individual users so all their data is kept separate. From test case 2, we can try using the abnormal data which has an invalid username and no password to check for validation. As you can see, an error message appears. Now, using the normal data, we can log in to open the menu screen.

VALIDATION

There are some validation checks needed in the log in process. I coded the log in page such that the text fields had a maximum character size. As all the usernames need to be 6 characters long, by imposing a character limit of 6 on the username text field, I reduced the possibility of the user entering extreme data.

SUCCESS CRITERIA 4: ADD FEEDBACK RECORDS

Success criteria 4 requires the app to be able to add records from user feedback. Selecting the “Canteen” option from the menu page, we are taken to the feedback survey page. On page 1, we can give objective feedback in the style of MCQs. This was a feature requested by my client as seen in Appendix B. The next page allows the user to give subjective feedback too. Notice the “photo” button here. This feature allows scope for future

improvements where students will be able to send pictures too. After clicking the submit button, we get a confirmation message and we can check our database to see the record being added.

SUCCESS CRITERIA 5: VIEW HISTORY

Success criteria 5 requires the app to be able to show the user their history. We can do this by going to the history page as seen here. As my application has a many client to one server architecture, displaying the history feature is indeed very complicated. Using PHP APIs, which can be found in Appendix C, the app first searches the database for records of the given username. The API then reads the database and sends the relevant records to the application, which displays the feedback in individual card layouts. We can scroll to see more cards, allowing an extensive structure which can cope with increasing use.

SUCCESS CRITERIA 7: GENERATE PIE CHARTS

Success Criteria 7 requires the creation of pie charts. However, this feature is restricted by admin rights. Only my client, Suyash Kothari, has admin rights, meaning that only he can compile reports and generate pie charts based on other people's feedback. Hence, to demonstrate this, we must log in using his log-in details.

After logging in using the admin account, we can see that the "Report" button is made visible. This is a feature which requires the database to be read and checked to see if the data record's "Admin" element is true. By clicking the report button, we can now select a category. As we have been working with the canteen option recently, let's select the canteen button. Here we can see a pie chart displaying the data for each question in the canteen survey form. Hence, success criteria 7 has been met.

SUCCESS CRITERIA 8: SENDING EMAILS

Success Criteria 8 requires the app to send an email to newly registered users. We can test this by clicking on the register button and creating a new account. Entering some normal data for the fields we can then click the create account button to get a verification that the account has been created. I can confirm this as the record has been added to the online database as seen here. Next, we can go on the user's email and see that the application has sent an email to the given email ID with the user's log in details for safe keeping. This means that success criteria 8 has been met.

SUCCESS CRITERIA 9: EXPORTING TO EXPORT FILE

Success Criteria 9 requires the app to export the selected data as an excel file for my admin to use. To demonstrate this, we must log in the application using the admin account: suko19. Then, by clicking on the report button, we get an array of categories of which we can export the excel file for. Let's take the "Teachers" category as an example. By selecting the "Teachers" button, we are taken to the overview page for teachers. Here, we see the pie charts from success criteria 7 as well as the "export CSV" button. By clicking on this button, the file is created and stored locally in my client's phone. This process is indeed very complicated as it required the database to be searched for with regards to the selected category. Then the relevant records were read and returned to the application. Finally, the relevant data is exported to an excel sheet. With this excel sheet, my client effectively has access to a sorted database. This is a crucial feature as only me- the producer of the application- has access to the online database. However, this feature allows my client to access the relevant information from the database without having to deal with the technical aspects such logging in through a webhost etc. From the excel sheet, the client can select the relevant data to create custom pie charts as well. In the future, perhaps more features can be included such that these additional pie charts in the excel file are made directly from the app.

OUTRO

Overall, as can be seen through various parts of this demonstration, all success criteria were met. The missing success criteria 3 and 6 referred to subjective goals such as ensuring a structured database was created, or that an intuitive user interface was made. These success criteria were met both to my advisor and client's expectations. The evidence can be seen in Section E. Lastly, this application can be easily distributed to students in the school community by distributing the .apk file created. My client can also choose to publish the app on the Google Playstore to allow for a safer distribution method. Hence, the project was an overall success.