

## Integration tests

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### Unit 1 Login in test

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In this unit, a Login program is used to test the login interface. In this unit, users could choose to login as a student or a teacher. The user need to type in the username and password which are stored in the txt file. If the username and the password were not match with the txt file, the user cannot login. When typing in the right username and password you will entering the student 摺 interface or teacher 摺 interface, otherwise it will display 摺 nvalid ID or password?

### Unit 2 SwitchOn/Off

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In this unit, a switch on/off program is used to test the switchon/off function. When switch on, the lamp will light. Otherwise, the lamp will not light.

### Unit 3 Dial

In this unit, a easy dial test program is used to test the performance of each dial. When rotating each dial, it could show a rotation effect and the needle will move.

### Unit 4 AdjustZero

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In this unit, an adjustZero program is used to test the adjust zero function. When running this program, the user could set the initial value of the meter to zero value.

### Unit 5 Select Wavelength

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In this unit, a SelectWavelength program is used to test the wavelength selection. User can choose desired wavelength by rotating the knob.

### Unit 6 AdjustBlank

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In this unit, a adjustBlank program is used to test blank zero adjustment. Users could do initialization after they insert the blank sample.

### Unit 7 Open/Close Lid

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Users could open or close the lid on the sample holder by clicking the button. And the program will change the status of the lid.

### Unit 8 Change Sample Value

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Users could set values of different sample solution. And these values will be saved by clicking 摺 save 摺 button.

## Unit 9 Update Information board

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Users can type in the content in the text area. And by clicking save button, the information will be sent to information board.

After all these unit test, we can combine all the subsystem part together, add test the whole application(including the running of the whole application, the logical relationship, the performance of response time, etc).