Testing strategy

White box testing

The white box testing is testing the system as the user knowing the source code. The functionality of the program will be tested. All navigation paths will be tested for example testing the menu. Depending on the option selected by the user a corresponding procedure should be executed. Validation can be tested with the knowledge of the actual code.

Strategy

I will test every possible route in my program to make sure it all works as expected. I will perform functional, navigational and validation tests to make sure it all works as expected.

Validation testing

The validation testing will test my validation routines and see if they accept only suitable data for the input. For every integer input I call a procedure which is called whenever validation is needed to be performed on the input. I will test the validation procedure once with standard, extreme and invalid. Since the same procedure is called every input needs validation there is no need to test the same procedure multiple times. I will list where the validating procedure has been used in the program and on which inputs.

Functional and procedural testing format table example for entering user’s age

The valid range for input “age” will be from 17 to 25

1. Entering age
2. Entering valid data
3. Entering data which is extreme since is right at the edge of the valid limit
4. Entering invalid out of range data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ref no | Procedure tested | What test | Test data | Expected outcome | Actual outcome |
| 1a  (Typical) | Entering age | User entering their age while creating an account | 21 | The data should be accepted by the system |  |
| 1b  (Extreme) | Entering age | Entering data which is extreme since is right at the edge of the valid limit | 25 | The system should accept and save the data |  |
| 1c  (Invalid) | Entering age | Entering data which is out of the valid range | 35 | An error message should display and data shouldn’t save |  |
| 1d  (Invalid) | Entering age | Entering data of different invalid type | ww | An error message should display and data shouldn’t save since it’s not of numeric value |  |

A table of this format will be used for every test with typical, extreme and invalid data.