

## Criterion E: Evaluation

### Meeting the Success Criteria:

1. The system should be stable, and not crash during operation

Met: The system is designed to spawn each window as a new process to prevent the entire program from crashing in the case of a fatal error.

2. Creating and publishing tests should be an intuitive and straightforward task for the supervisor

Met: The program offers a clean and minimalist design that is self-explanatory in nature.

3. There should be a login function that is able to differentiate between employees and supervisors and redirect them to the relevant screens

Met: The login screen has a hidden admin password field accessible through a checkbox, that allows the user to access the program as an admin.

4. The supervisors should be able to manage employees under them by being able to add and remove users

Met: The supervisor has the functionality to add and remove user credentials from the database that authenticates access to the portal.

5. The users should have passwords on their accounts to maintain a level of security

Met: Users have passwords protecting direct access to their account from the portal.

6. The supervisor should be able to add his own questions and answers to the database

Met: The supervisor is able to add questions on their own accord to a database of their choice.

7. The supervisor should be able to create multiple test banks to differentiate between question categories

Met: The supervisor is able to make new question databases to help categorize questions into relevant sets.

8. The software should be lightweight, and not memory intensive

Met: The software makes use of lightweight python csv libraries to build a proprietary database software.

9. The software should be compatible with the company's systems

Met: The software is written for Python 3.6.X, and maintains backwards compatibility

### Recommendations for Future Developments:

1. **Securing User Data:** If required, the data of the users (test data) can be encrypted using their passwords to prevent data theft/modification. Currently, the program's Filesystem is installed to a hidden directory on the drive that should prevent it from being indexed and accessed.
2. **Single Screen Container:** Currently, since each window spawns as a new process, new pages are displayed as new windows. This could be improved in the future by stacking the new processes into the same frame.
3. **Automatic Screen Refresh:** Currently, changes to a database such as the questionbank are not immediately reflected in the listbox view, and require the screen to be refreshed by closing it and reopening it. The product can be improved by automatically have the frame redraw the widgets periodically to reflect updates.

WORD COUNT: 429