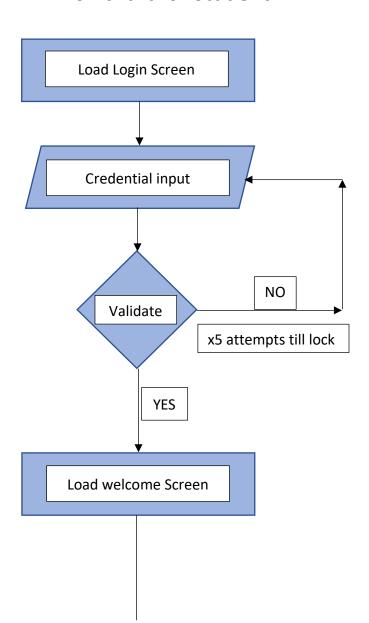
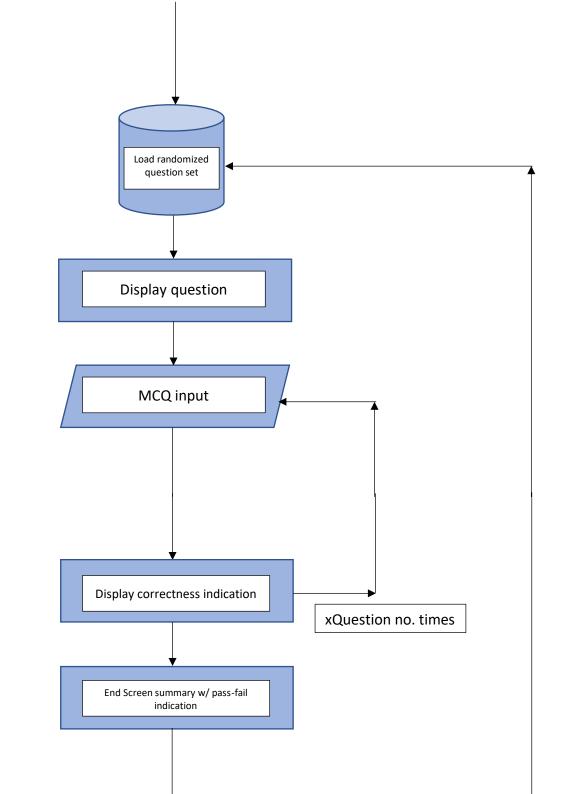
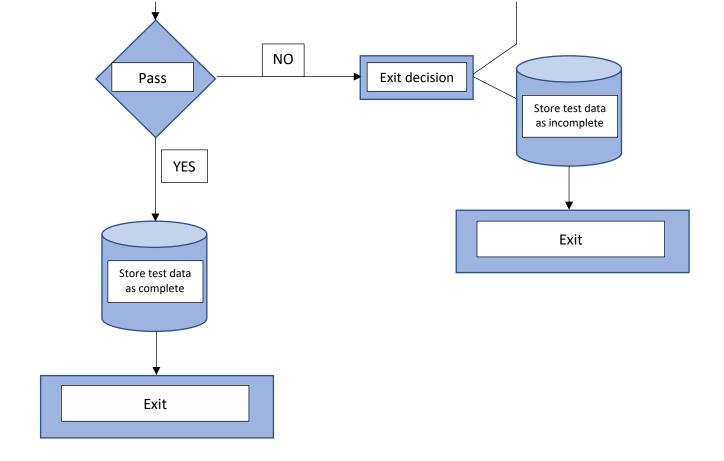
Criterion B: Design

UX Flow chart and Design

Flowchart for Student

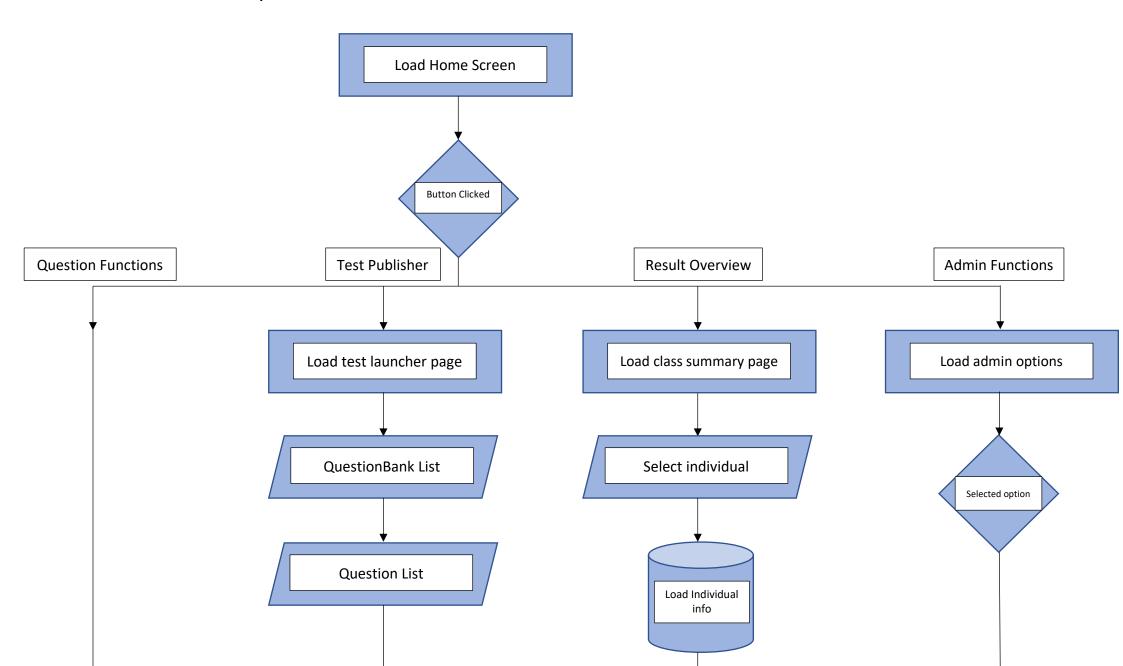


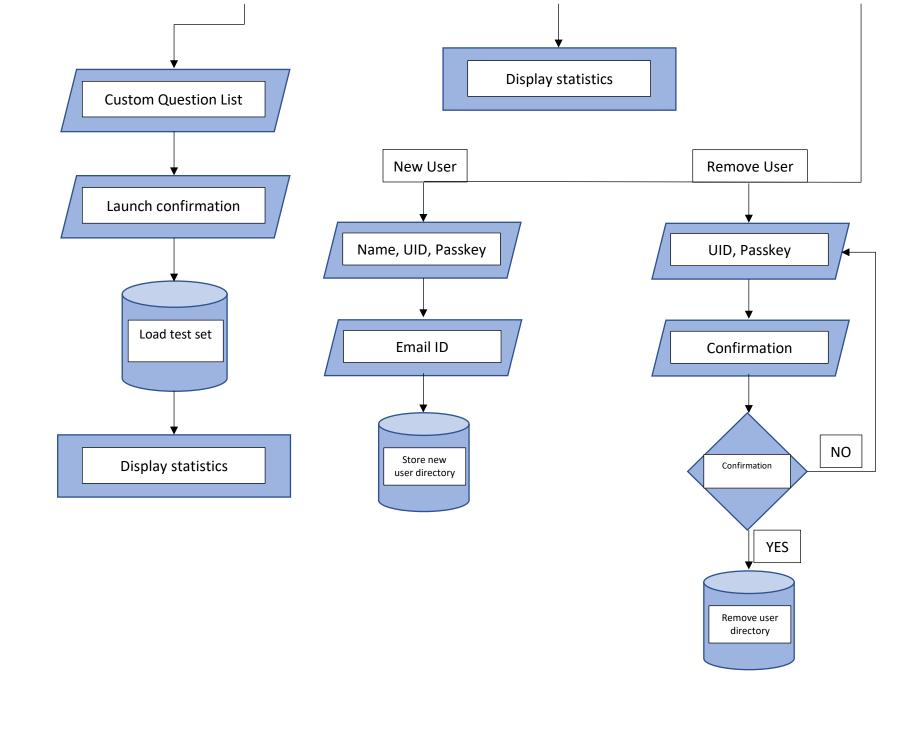


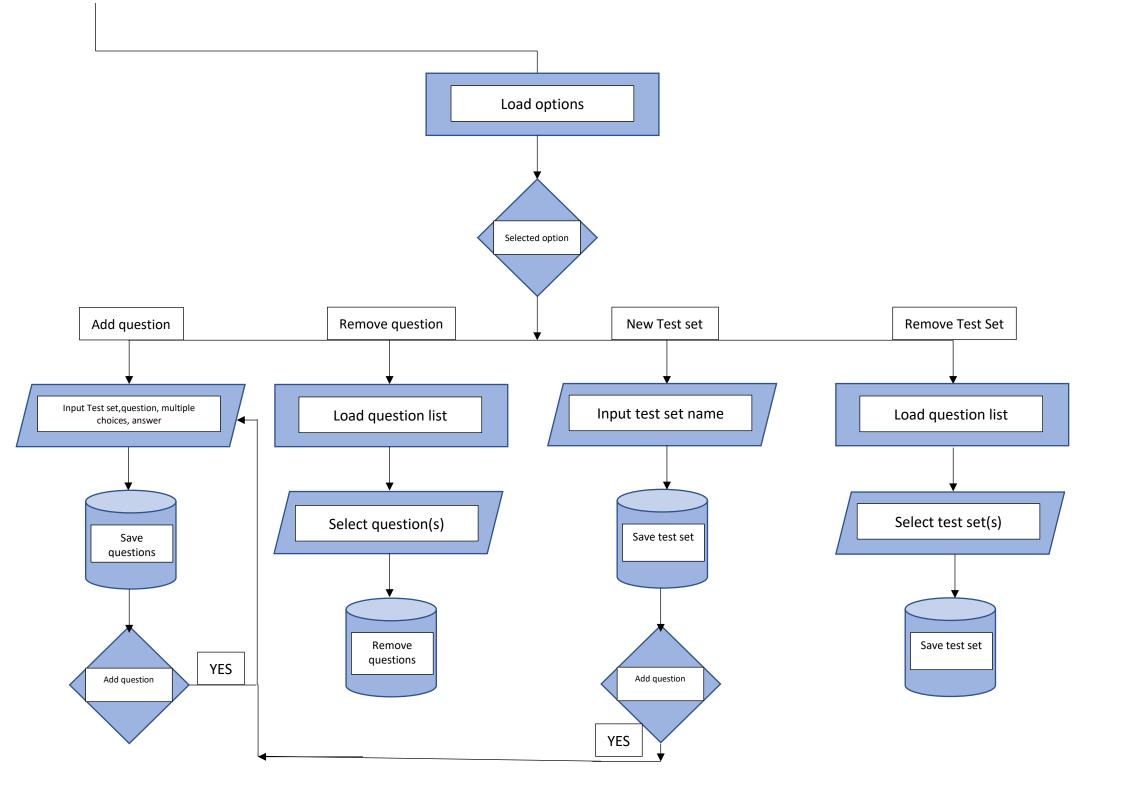


UX Flow chart and Design

Flowchart for Supervisor/Admin







Criterion B: Design Overview

Hardware Requirements:

• A desktop, laptop or remote server

Software Requirements:

- MacOS 10.X, Windows 7 (or higher) or GNU/Linux(Arch Linux)
- Python 3.6.5 or higher

UX Proposal:

Login Screen:

- Username field: Username Entry box field for users (Employees and Supervisors alike) to enter username credentials.
- Password field: Password Entry box field for users Employees and Supervisors alike) to enter password credentials.

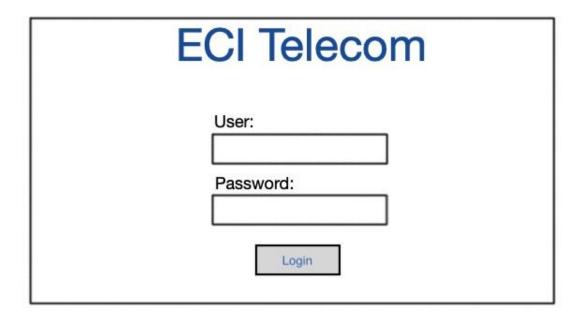


Image 1: Sample Login Screen

Available Tests (Employee only):

- Test List Box: Test list box displays all the available published tests ready for the employee to take
- Button: Button to submit choice of test response

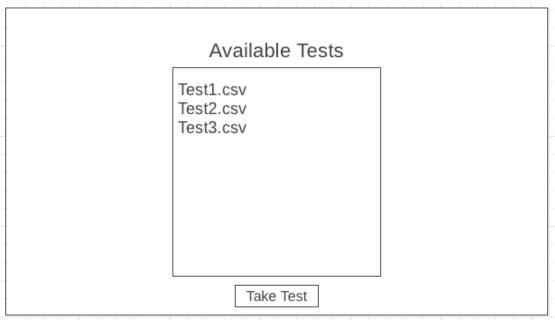


Image 2: Sample Test Choice Screen

Test Take Screen (Employee only):

- Labels: Text labels that display question, multiple choice options to present test question.
- Entry Box: Entry Box to provide response to answer

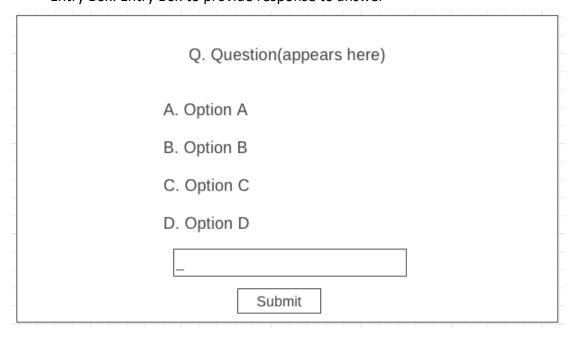


Image 3: Question Response and Test Taker Screen

	ECI Telecom
	Admin Functions
	Test Publish
	Question Functions
	Employee Stats
	tions: Admin Functions button to redirect user to screen containin nin-oriented functions such as create new user/remove user.
	tions: Admin Functions button to redirect user to screen containin
	ctions: Admin Functions button to redirect user to screen containing in-oriented functions such as create new user/remove user. Admin Functions
various ad	Admin Functions button to redirect user to screen contain-oriented functions such as create new user/remove user. Admin Functions

 Test Publish: Test publish button to redirect users to screen containing various test publishing related functions, such as choice of test bank and various questions to publish to test-taking employees

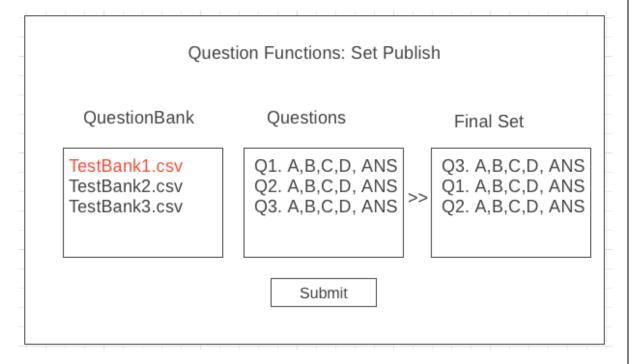
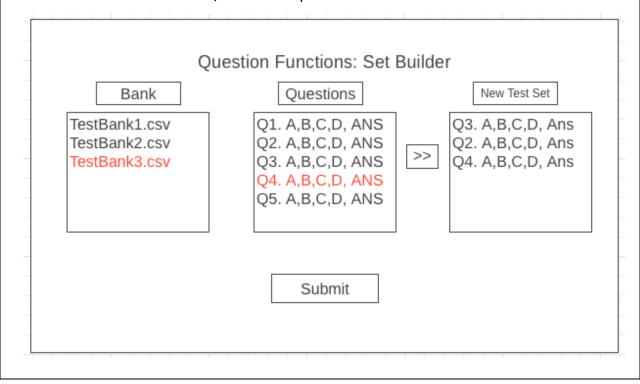


Image 6: Question Functions Screen – Test Publish

 Question Functions: Question functions button to redirect user to screen containing question managing functions, such as creation/removal of new test banks and addition/removal of questions from said test banks.



	Question Functions: Add Bank new Question
Question:	
Option A:	
Option B:	
Option C:	
Option D:	
	Add Question
1 1 1 1	Question Functions: Add Bank
TestBar	nk Add or Remove?
	Submit
	Image 9: Question Functions Screen – Test New Bank Add (3/3)
	illage 3. Question Functions screen – rest new bank Aug (3/3)

 Employee Stats: Employee Stats button to redirect user to screen containing overview of various test-takers and an overview of their performance by their choices.

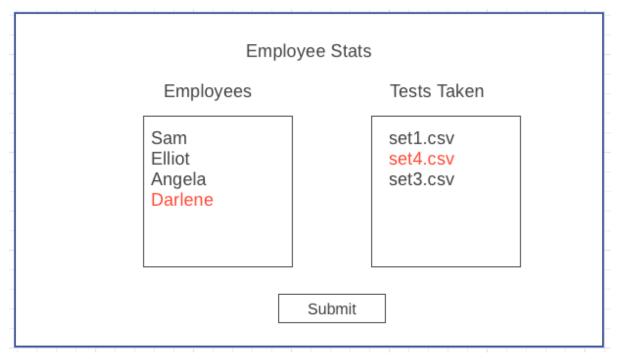


Image 10: Employee Overview Screen – Test Employee List View + Tests (1/2)

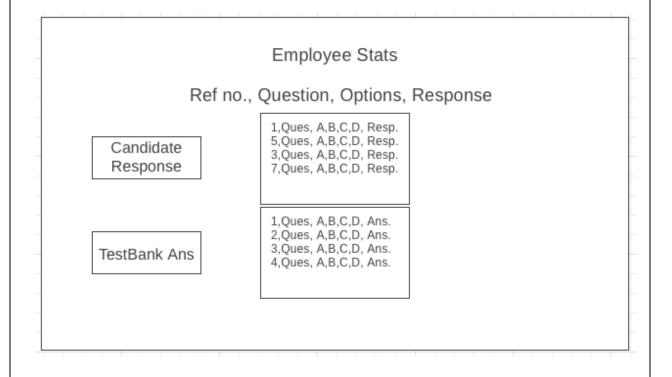


Image 11: Question Overview Screen – Test Employee Status Overview (2/2)

Test Functionality	Procedure
1. Login function	Enter an existing user's credentials
	Enter credentials with spelling error
	3. Check if appropriate error messages,
	files and updates to existing files are
	made
	4. Enter invalid credential (invalid
	character and non-user cred) to test login.
2. Profile Creation	Enter credential to create new user
	2. Enter Credentials to remove existing
	user
	3. Check if appropriate error messages,
	files and updates to existing files are
	made 4. Enter invalid user credentials in
	remove user and duplicate
	credentials in create user to test
	error messages.
3. Available Test View	View shown available test
	2. Check if all available test are being
	displayed
4. Take Test Function	Answer Questions as indicated Reach Ford of Tool
	2. Reach End of Test3. Check if responses correctly recorded
	in Employee Overview
	in Employee everview
5. Software Function	Test if various buttons redirect to
Testing	correct pages in the software
	functions page by checking each
6.411/2	button individually for redirect.
6. Add/Remove Question	1. Fill in the various entry boxes
Testing	(question, options, answer) appropriately, after selecting the
	desired test bank to add question.
	Select various questions and use
	remove button to remove questions
	from Listview Box.
	2. Check to see if TestBank was updated
	with new Questions by reopening
	window.
	3. Check to see if TestBank was updated
	with old Questions by reopening
	window

7. Add/Remove TestBank	 Fill name of TestBank and choice of Add/Remove TestBank and abnormal data.
	Check filesystem for appropriate removal/addition of TestBank and appropriate error message otherwise
8. Employee Status	Select Various Employees to see whether various taken tests reflect actual tests taken by checking appropriate Filesystem files.
	2. Choose a test and submit to check whether given test (responses + options+ ref no.) and answers(questions+options+answers) correctly appear, and check Filesystem if correct files are appearing

EDIT:

After demonstrating the product to the client and acquiring relevant feedback, I have made some updates to the login screen of the program. The program now accepts an additional field for a special 'Master Key' that when typed in the hidden field, allows Admin/Supervisor to directly access the Software functions page.

ECI TELECOM Login Page				
Username: Password:				
Supervisor Login:	Submit			

Image 12: Login Screen (Updated with Supervisor Login box)

UML Diagrams:

TestGUI_Interface_loginScr

- + __init__(self, master): main
- + MasterBox(self)
- + submit(self):

TestGUI_Interface_SuperInterface_PublishTest

- + __init__(self, master): main
- + TBankSelect(self)
- + TBankQuestionSelect(self)
- + Done(self)

TestGUI_Interface_SuperInterface_AdF

+ __init__(self, master): main

submit(self)

submit2(self)

TestGUI_Interface_SuperInterface_QuestionManager

- SessionBankNameVariable: String
- + submitTBankSelection_Function(self)
- + removeQuestion_Function(self)
- + submitAddQuestion(self)
- + polyTestSet(self)
- + __init__(self, master): main

TestGUI_Interface_SuperInterface

- + __init__(self, master): main
- + nextWindow(self)
- +addRemove_Submit(self)
- +Publish(self)
- +Employee(self)

TestGUI_Interface_SubInterface_TestTake

- + __init__(self, master): main
- + Submit(self)