

SFWRENG 3K04
Assignment 1 Part 2
Documentation

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1 Requirements

1.1 Welcome Screen

A welcome screen greets the user when the program is launched, displaying the option to either register a new user or login as an existing user. Users have a username and a password. A maximum of 10 users are stored locally, with the user losing the ability to register new users once this maximum has been reached. The ability to delete existing users may be added in a future revision of the software.

1.2 User Interface Essential Aspects

The user interface is a graphical user interface that manages windows that display text and graphics. User interface elements in the windows scale with the size of the window. There are minimum, maximum, and fixed sizes for windows to ensure that user elements are displayed as intended.

User interface elements such as push buttons, radio buttons and text inputs are accessed through the cursor.

yes

Status bar allocated for visual indication of connecting between DCM and device.

not implemented currently

1.3 DCM Utility Functions

1.3.1 About

The About function displays the application model number, application software revision, DCM serial number and institution name.

1.3.2 Set Clock

The Set Clock function has been allocated a window that will display the current date and time on the device and allow the user to set a new date and time. This function will likely be removed in a future revision of the software depending on the feasibility of implementing the feature.

1.3.3 New Patient

The New Patient function has been allocated a button on the DCM main window. This function will likely be removed in a future revision of the software depending on the feasibility of implementing the feature.

1.3.4 Quit

The Quit function exits the program.

1.4 Pacing Mode Interfaces

Pacing mode selection

1.5 Printed Reports

Header information: Institution name, date and time, device model and serial number, dcm serial number, application model and version number, report name

1.5.1 Bradycardia Parameters

Displays programmable parameters relevant to pacing mode in a popup window.

1.5.2 Temporary Parameters

Allocated a button in the Reports window. This function will likely be removed in a future revision of the software depending on whether a temporary pacing mode is introduced.

1.6 Programmable Parameters

Programmable parameters stored locally in file that can be modified through parameters window.

1.7 Real-time Electrograms

Space has been in the DCM and Report windows for the real-time electrograms and electrogram reports.

2 Software

2.1

3 Testing

3.1