SFWRENG 3K04
Assignment 1 Part 2
Documentation

Lab 1 Group 7
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Contents

1 Requirements

1.1 Welcome Screen

All required aspects of the welcome screen are implemented in the current software revision:

- Register a new user

- Login as an existing user

- Maximum of 10 users stored locally

All requirements will remain in future software revisions.

1.2 User Interface Essential Aspects

All required essential aspects of the user interface have been implemented in the current software revision:

- User interface is capable of utilizing and managing windows for display of text and graphics

- User interface is capable of processing user positioning and input buttons

- User interface is capable of displaying all programmable parameters for review and modification

- User interface is capable of visually indicating when the DCM and the device are communicating

- User interface is capable of visually indicating when a different PACEMAKER device is approached than was previously interrogated

All requirements will remain in future software revisions.

1.3 DCM Utility Functions

1.3.1 About

All required aspects of the About function are implemented in the current software revision:

- Application model number

- Application software revision

- DCM serial number

- Institution name

All requirements will remain in future software revisions.

1.3.2 Set Clock

The Set Clock function is not implemented, but has been allocated a window and 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.

1.3.3 New Patient

The New Patient function is implemented in the current software revision. The function will remain in future software revisions.

1.3.4 Quit

The Quit function is implemented in the current software revision. The function will remain in future software revisions.

1.4 Pacing Mode Interfaces

Interfaces for pacing modes and pacing mode selection are implemented in the current software revision. The feature will remain in future software revisions.

1.5 Printed Reports

All common requirements for printed reports are implemented in the current software revision:

- Header Information
    - Application model and version number
    - Device model and serial number
    - DCM serial number
    - Date and time of report printing
    - Report name

All common requirements for printed reports will remain in future software revisions.

1.5.1 Bradycardia Parameters

The feature is implemented in the current software revision. The feature will remain in future software revisions.

1.5.2 Temporary Parameters

The feature has been allocated a button in the reports window in the current software revision. This feature will likely be removed in a future revision of the software as it is unlikely that a temporary pacing mode is introduced.

1.6   Programmable Parameters

Provisions for storing programmable parameter data have been implemented in the current software revision for the following programmable paramters:

- Lower Rate Limit

- Upper Rate Limit

- Atrial Amplitude

- Atrial Pulse Width

- Atrial Refractory Period (ARP)

- Ventricular Amplitude

- Ventricular Pulse Width

- Ventricular Refractory Period (VRP)

These programmable parameters will remain in future software revisions.

1.7   Real-time Electrograms

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2 Software

2.1

3 Testing

3.1