Requirements:

|  |  |
| --- | --- |
| **Item** | **Part** |
| AOO, VOO, AAI, and VVI Stateflows | 1 |
| pulse characteristics (width, and amplitude), rate characteristics (limits, and delays) and what chamber(s) are being paced. | 1 |
| pinmap for the two digital output pins (as parameters): one for atrial pacing and another for ventricular pacing. | 1 |
| GUI Design (sketch, colour, etc.) | 2 |
| Welcome Page ✔ | 2 |
| Login/Register (name + password) ✔ | 2 |
| Main page. (connection indicator, Mode control 4, sign out) ✔ | 2 |
| Indicator for connection to the pacemaker! ✔ |  |
| Display all programmable parameters for review and modification! ✔ |  |
| ~~The user interface shall be capable of visually indicating when a different PACEMAKER device is approached than was previously interrogated.~~ |  |
| \*Input buttons\* (read 3.2.2 in PACEMAKER) |  |
| Interface for pacing modes ✔ | 2 |
| provision for storing programmable parameter\*\* (PACEMAKER document on page 28) ✔ | 2 |

## List of Features for App:

* Indicator for connection to the pacemaker -- Forrest ✔
* Display all programmable parameters for review and modification:
  + Pacing Modes ✔
  + Pulse width - Atrium and Ventricle ✔
  + Pulse amplitude (duty cycle) (value between 0-100) - Atiqul ✔
  + Wait time - called Ventricular Refractory Period (VRP) and ARP ✔
  + BPM - Kev ✔
* Add units (voltage, msec, bpm)
* Add bounds\*\*\*

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