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| ID | Requirement | Related Use Case(s) | Fulfilled By | Test | Description |
| 1 | Default age initialization | * Using Electrodes | Patient.h, Patient.cpp | Verify default age is 18 from the UI | Patient is initialized and heart conditions analyzed on pad connection |
| 2 | Age-based compression depth setting | * Applying CPR-D-padz | Patient.h, Patient.cpp, Heart.h, Heart.cpp | Verify compression depth range variance between adults and kids | Patient is resuscitated with different compression depth based on age range. Age range determined by which of the two pads (Adult or Child) receive a signal. Due to inconsistent compression depth, range is applied |
| 3 | Cardiac arrest detection | * Using the Semi Automatic AED Plus | Patient.h, Patient.cpp,  Heart.h, Heart.cpp | Check prompt to shock. Only cases for shock are VTACH or VFIB | If patient has a heart rate of over 120bpm, they are in a state cardiac arrest |
| 4 | Administering shock | * Using Electrodes (part of the cpr d-pads) | Patient.h, Patient.cpp  Heart.h, Heart.cpp | Test shock administration. | Simulates the administration of a shock |
| 5 | CPR suitability determination | * Using the Semi Automatic AED Plus * Applying CPR-D-padz | Patient.h, Patient.cpp,  Heart.h, Heart.cpp | If the heart requires resuscitation from either asystole or PEA state | Determines if CPR is applicable |
| 6 | CPR administration feedback | * Using real CPR help | Patient.h, Patient.cpp | Conditions for administering shock are only in cases of VTACH or VFIB | Provides feedback on CPR administration |