

CSCD 488-W22 Task 4

Team E1

23 February 2022

User Stories

- As a patient, I want to be able to actively view my HRV so I can monitor my condition.
- As a patient, I want an interface that is simple and easy to navigate so that I do not become confused.
- As a patient, I want to be notified intrusively on my Apple Watch when my HRV is at a dangerous level so that I can prevent a stressful event.
- As a patient, I want to provide feedback about my stress level to the application so that the algorithm can anticipate stressful events more effectively.
- As a clinician, I want to provide age, gender, and other health information that might be relevant for my patients so that the HRV threat algorithm learns more effectively.
- As a clinician, I want to view a patient's stored HRV statistics such as minimum, maximum, and average so that I can better understand patient's condition.

Tasks - Sprint I

T1 Research API documentation regarding the hardware and software limitations of Apple Watch

T2 Create helper application to retrieve live heart rate from the Watch

T3 Investigate how to parse heart rate data programmatically

T4 Implement live polling module POC

T6 Design minimal homepage view

T7 Research method to display color-coded HRV value on the homepage

T8 Create HRV Monitor homepage view

Task Assignment

Task ID	Assignee
T1	Jared
T2	Nick
T3	Nick
T4	TBD
T6	Blake
T7	Blake
T8	Madi