Abstract HRV-Parameter Calculation

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| Goal Level: Summary | Scope: System Blackbox | Primary Actor: LibUserSystem |

# Stakeholders and Interest

**LibUserSystem**: The LibUserSystem wants accurate results for the given data.

**HRVBand Organisation**: Wants a lot of accurate calculated HRV-Parameters to satisfy their client’s needs. The Methods used should be the latest standard.

# Preconditions

The LibUserSystem can provide rr-data.

# Post Conditions

HRV-Parameters are calculated properly and handed over to the LibUserSystem.

# Main Success Scenario

1. LibUserSystem hands over rr-data and settings for the calculation
2. The system calculates the HRV-Parameters
3. The system returns the calculated HRV-Parameters

# Extensions

**1. Wrong Input by the user**

**1.a Wrong Settings:** Specified Settings are not applicable. The system communicates the error to the user.

**1.b Wrong rr-data:** If the given rr-data is corrupted, the system communicates the error to the user.

# Special Requirements

1. For input data, shorter than 5 minutes the calculation for a HRV-Parameter should be shorter than 10ms

# Technology and Data Variations