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Instructor: Brandilyn Coker

TA: Jacob Cook

ECE 342: Junior Design II

System Testing Videos

Default Requirements

- **Customer Requirement:** The system should be accurate.
 - Engineering Requirement: The temperature readings should be within +/- 1 degrees Fahrenheit of a standard thermometer.
 - Testing Video Link: https://youtu.be/V7ZbVuq3 II
- Customer Requirement: The system should alert the user when they have a fever.
 - Engineering Requirement: The system should indicate via sound and a display when the recorded user temperature is greater than or equal to 100.4 degrees Fahrenheit.
 - Testing Video Link: https://youtu.be/gu2ugfwbNfk
- **Customer Requirement:** The system should require no contact to function.
 - Engineering Requirement: The system should be controllable by the user from a distance of 1 cm or greater with no contact.
 - Testing Video Link: https://youtu.be/STKEt9 xWqs
- **Customer Requirement:** The system should log user information.
 - Engineering Requirement: The system should automatically record all users and their temperature for the last 24 hours.
 - Testing Video Link: https://youtu.be/Sg5hVsK7o50
- **Customer Requirement:** The system should be intuitive.
 - Engineering Requirement: The system should be usable with no outside instruction for at least 2 people other than the project designers.
 - Testing Video Link: https://youtu.be/57l9eBAs6uM

Additional Engineering Requirements

- **Engineering Requirement:** The system should be controlled via a QR code which will allow the user to input information and convert the output between fahrenheit to celsius for international use.
 - Testing Video Link: https://youtu.be/STKEt9 xWqs (repeat video)
- **Engineering Requirement:** The system should record all user information including recorded temperature onto an external database.
 - Testing Video Link: https://youtu.be/Sg5hVsK7o50 (repeat video)