

Project 4 Voice Mail System

For this project, you will implement a voice mail system that records a message. When a user presses the record button, the system will record a message for as long as the system allows. A user may then playback the message by pressing a different button. A user can record over the previous message. User's may play back message at normal, half, or double speeds. You must implement an intuitive LED display to let the user know under which particular mode a system is operating (you can use the onboard LEDs or 7-segments).

1. Playback: 50 points

You earn points as follows: (The TA will play the recorded message several times to judge quality)

- Voice
 - 35 – Telephone quality
 - 30 – Good
 - 25 – Fair
 - 20 – Poor
 - 0 – Non-intelligible
- Playback Time
 - 1 pt is earned for every second of playback time (up to 15 points)

2. Operation: 40 points

- 10 – Message recording
- 10 – Message playback
- 5 – Double Speed playback
- 5 – Half Speed playback
- 5 – previous message overwritten by a new message
- 5 – an LED display as described above

3. Customer Satisfaction: +/-10 points

Points will be rewarded or deducted based on your customer's satisfaction with the project.

- + Solid presentation – includes explaining your project at both a high and functional level.
- + Understanding of the extensibility of your project.
- - Previous message remnants, plays after current message.
- - Quirky operation
- - Unfamiliarity with any aspect of your project
- - Messy Wiring