



Figure 1: Software Context Diagram

### 2.1 Amplifier

The amplifier provides audio amplification of the audio channels output from the audio to the speakers. The radio software is responsible for enabling / disabling the amplifier. The enabling / disabling of the amplifier shall not result in speaker "pops." The radio software responds to the "limiting" output of the amplifier by dynamically adjusting the volume output via the audio processor.

### 2.2 Audio Processor

The tuner, CD player, CD/DJ, and tape deck audio channels are input to audio processor. The radio software sends commands to the audio processor to select an audio source, control volume, and control bass, treble, balance, and fade.

### 2.3 Bezel Buttons

The primary user interface of the radio is via the bezel buttons. The radio software detects user input via button events (i.e., switch open / close) and responds accordingly.

The M100-CDR/MTD bezel provides the following bezel buttons:

- AM / FM
- Balance Left
- Balance Right
- Bass Down
- Bass Up
- CD (M100 CDR)