Application that translates music sounds to a music sheet:

PerfectPitch

Conceptual model

Course: Students:

Multimedia systems   *André de Azevedo Barata (up201907705)*

Marija Jocic (up202202484)

PerfectPitch			
Tasks			
Acquire audio	Process audio	Associate Pitch	Generate music sheet
Actions			
1. Receive audio 2. Save audio	1. Separate noise from music sound 2. Define spectrum 3. Define fundamental frequency (f0)	1. Associate noise to pause 2. Associate f0 to pitch and to music note	1. Write music notes on the music sheet 2. Send it to the user
Objects			
User	Note/Pause		Music sheet
Attributes			
Name	Duration		Key signature
Email	Fundamental frequency		Clave