### Pelmanism

Embedded System Design (CSEE 4840)

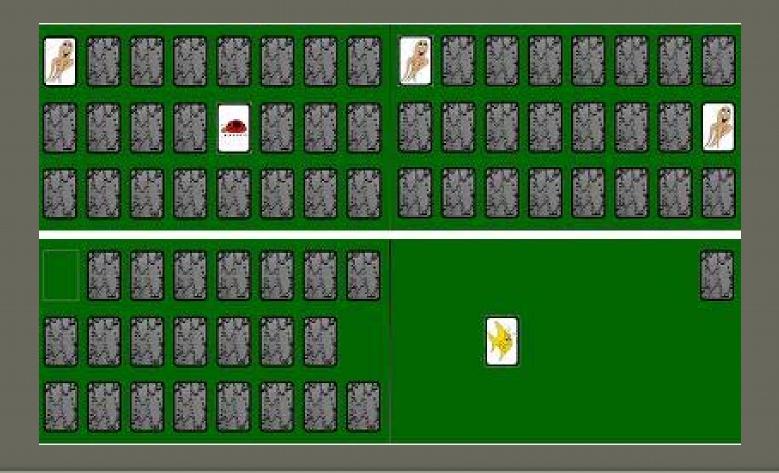
> Can Ilhan Chintan Shah Sungjun Kim Zenan Li

### Overiew

- Project Overview
- Architecture
- Experiences and Issues
- Lessons Learnt

# Project Overview

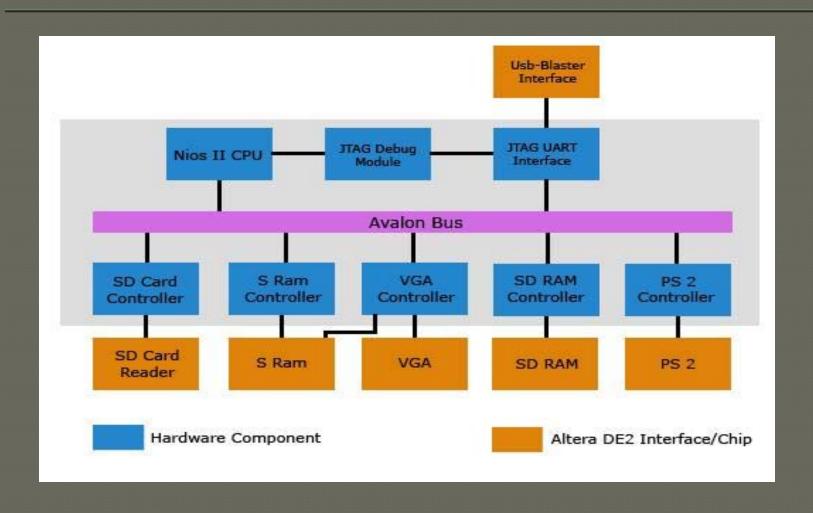
Game definition.



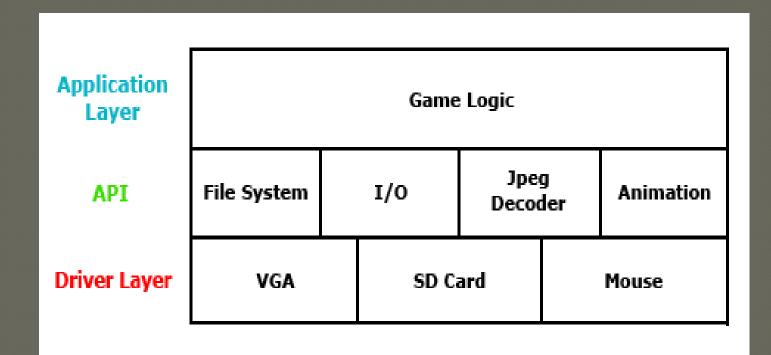
## Project Overview

- Eight pairs.
- Pictures read from the SD card.
- SD card uses FAT file system.
- Pictures in JPEG format.
- Decoded pictures saved in the SRAM.
- VGA controller reads from SRAM.
- Code stored in SDRAM.
- Animation in hardware.

### Hardware Architecture



### Software Architecture



## Experiences & Issues

- Mouse-Streaming mode/Remote mode.
- Writing to SRAM.
- White stripes on pictures.
- Animation.

#### Lessons Learnt

- Project planning
- Understanding each others ideas.
- Defining clear interfaces.
- Be more careful in writing VHDL code.
- Have patience.