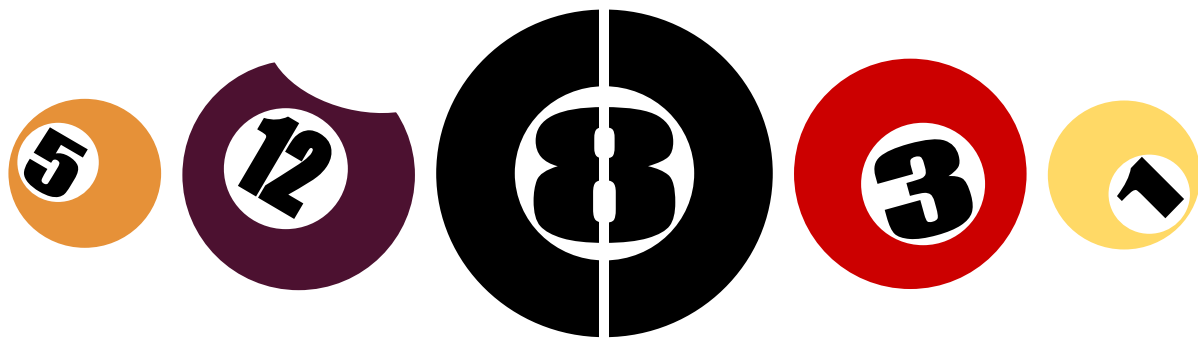


Pocket Pool



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Overview

Basic concept: Our project will display a motion simulation of pool game.

First, We detect the cue by camera using image processing.

Then, once the ball being hit, we analyze the motion track based on the algorithms we develop.

Finally, the movement will be displayed on the screen.

USEFULNESS: Our pool game would provide a new concept. People would enjoy the game anywhere and anytime.

You will be attracted by the realism of this game and it can also be used for training pool skill.

Simultaneously, it still maintains traditional game experience.

Overview



Technical specifications

Image processing: object tracking.

Hardware Support: Acceleration and gravity sensor for parameters

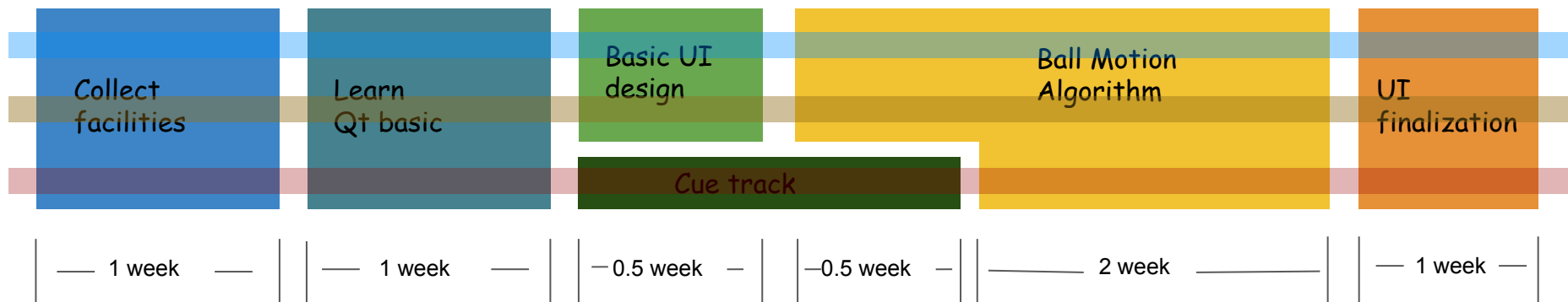
Qt: Build User Interface.

Algorithms for ball motion simulation

Cross-compiler: Using gumstix board and linux

Time Line

Qifan He 
Shen Han 
Mengyu Hang 



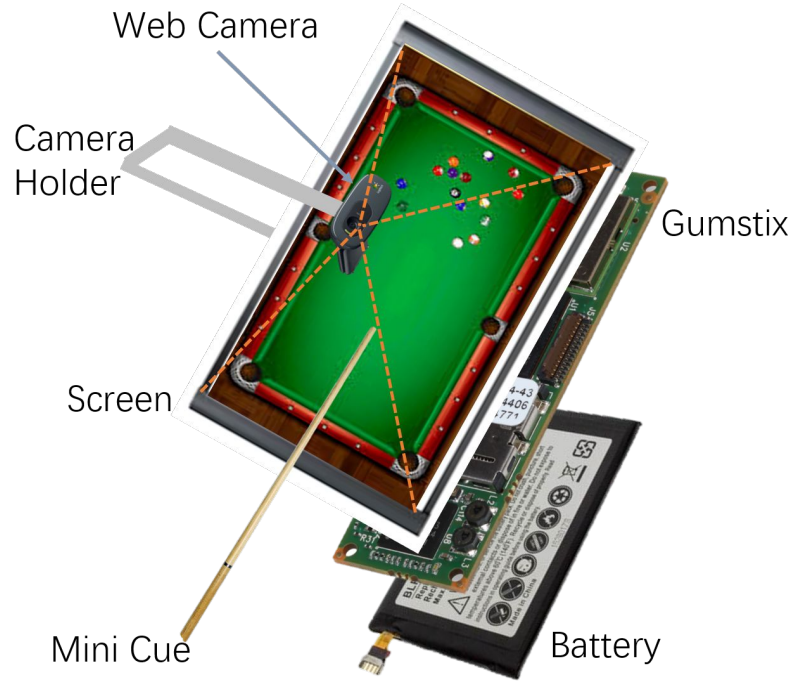
GO GO GO !!

Our Goal

Finally, we would complete an
augmented-reality pool game
console like this:

Estimate Cost:

- Webcam * 1 \$25
- Battery * 1 \$15
- Camera Holder \$15



Q&A



Thanks!