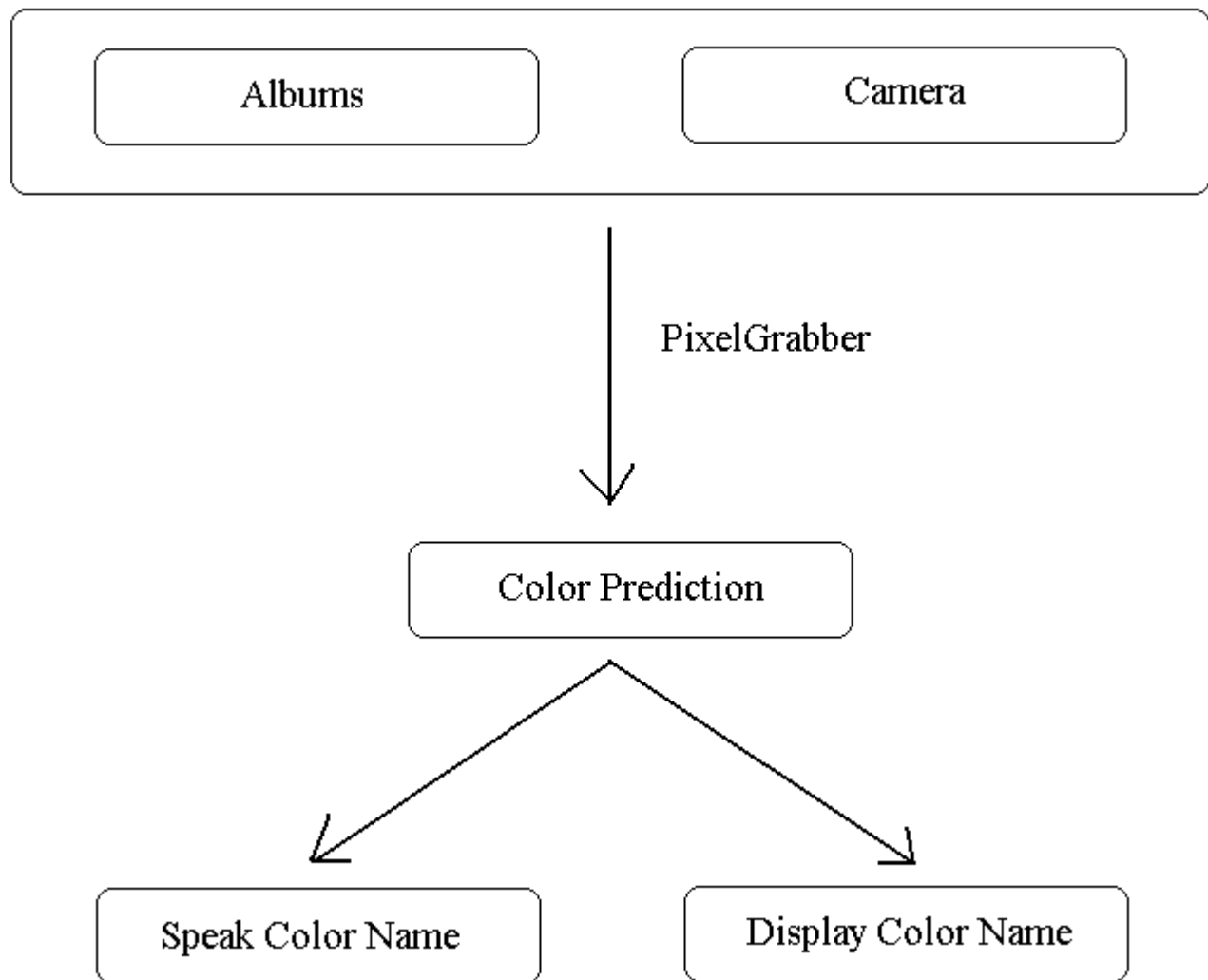


Mobile Color Identifier - iPhone

Objective

Develop an open source application on a mobile platform that will allow a colorblind person to take photos or video of objects and identify their colors.

Flow Diagram



Challenges

1. Intuitive UI
2. Text to speech synthesis
3. Finding the closest matching color
4. Finding the most relevant color in a small area

Benefit to the Community

Colorblindness is a relatively neglected area. Accessibility features usually focus on complete blindness or complete vision. Our application helps a colorblind person identify colors in a picture or video

Mentor

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Team

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Sumit Agarwal

References

1. <http://chir.ag/projects/ntc/ntc.js>

Had functions to convert from RGB value to color name.

2. <http://blog.steventroughtonsmith.com/2009/07/speech-synthesis-on-iphone-3gs.html>

Helped us use the VSSpeechSynthesizer object.