Digital Image Processing

Color Coded Academic ICal

Team ID : 22

Team Members:

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Problem Statement

Input: Image of the calendar
Output: Converted ICal
Given an image of a academic calendar convert it into a form that can be modified by the users. Basically we have to convert the text in the image to editable text. This text can then be converted into a color coded ical.

How things will be Done:

- First recognize text in the image and then separate them.(First separate the words and then separate the individual characters from the words.)
- Detect the character in the seperated images.
- Combine the characters and then form words from them.
- Detect colors from the image.
- Construct an object which stores information gained from the converted text.

GitHub Link:

https://github.com/appari/dip_project

Results of project

1. **Recognize text :**Given the image of the calendar we must be able to get the text from them and store them.
2. **Detect Text:** Detect the text that is recognized and convert it into editable text.
3. **Extract the colors:** Must be able to extract different colors from the image have to store them.
4. **Construct a Object :** Must be able to construct a object from the above data which can be converted into any type of Calendar.

   We will finally get a object which stores all the information there in the image including the colors. Then use this object to generate the color coded ical.

Milestones

Milestone	***Date***	***Task allocation***
Gather the background information for the project	October 4	(Both)
Recognize text in the image(Code)	October 8	Appari Lalith
Detect the	October	(Both)

recognized text(Theory)	22(Tentative)	
Convert the text in the image to text(Code)	October 26	Appari Lalith
Detect Colors from the image	October 31	Sai Preetham
Gather various types of information from the Image and convert them into an object	November 9	(Both)
Construct an ical	November 15	(Both)