Project Plan
Number Plate Recognition

Francois Ribemont

Supervisor: Nigel Whyte

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Contents

1 Requirements

In order to install this software, the user needs a machine with an operating system where Python can be installed. So, it also needs the Python program, and the Python Imaging Library. A machine with good performances would be preferable but not necessary, this would increase the calculation efficiency.

2 Project plan

The project is split into different parts. Each parts needs a period of time to be realised. We can see all the different parts in the Gantt chart below.
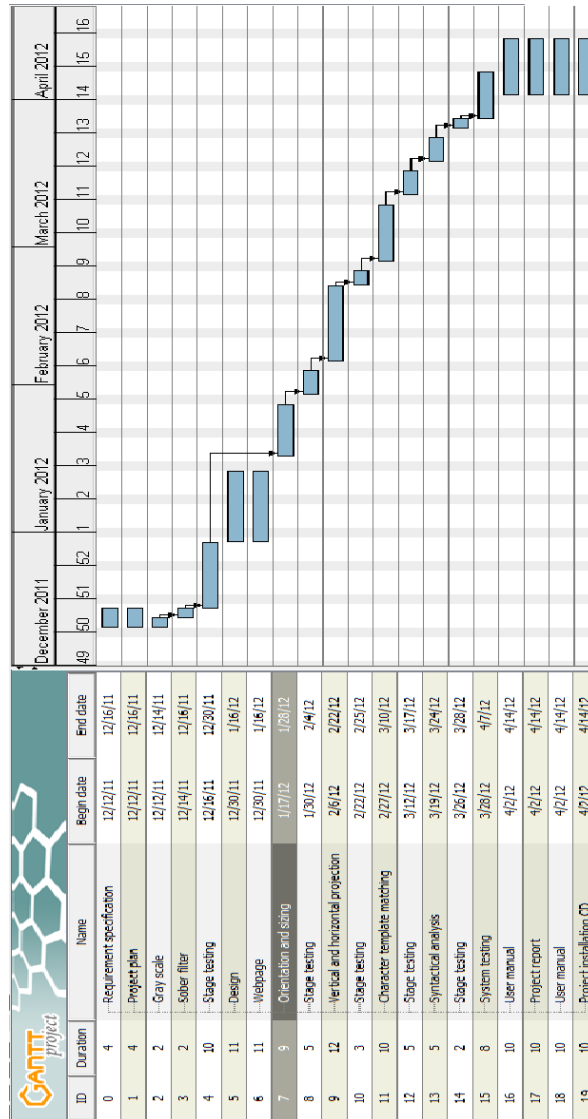
ID	Duration	Name	Begin date	End date
0	4	Requirement specification	12/12/11	12/16/11
1	4	Project plan	12/12/11	12/16/11
2	2	Gray scale	12/12/11	12/14/11
3	2	Sober filter	12/14/11	12/16/11
4	10	Stage testing	12/16/11	12/30/11
5	11	Design	12/30/11	1/16/12
6	11	Webpage	12/30/11	1/16/12
7	9	Orientation and sizing	1/17/12	1/28/12
8	5	Stage testing	1/30/12	2/4/12
9	12	Vertical and horizontal projection	2/6/12	2/22/12
10	3	Stage testing	2/22/12	2/25/12
11	10	Character template matching	2/27/12	3/10/12
12	5	Stage testing	3/12/12	3/17/12
13	5	Syntactical analysis	3/19/12	3/24/12
14	2	Stage testing	3/26/12	3/28/12
15	8	System testing	3/28/12	4/7/12
16	10	User manual	4/2/12	4/14/12
17	10	Project report	4/2/12	4/14/12
18	10	User manual	4/2/12	4/14/12
19	10	Project installation CD	4/2/12	4/14/12

Figure 1: Project plan

3   Task details

This table lists all the parts of the Gantt chart above. A task has an idea, a name and a description.

Task ID	Task name	Description
0	Requirement specifications	Requirement specification document
1	Project plan	Plan document
2	Grayscale	Convert an image to a gray scale image
3	Sober filter	Implement the Sober filter
4	Stage testing	Test the previous algorithm to detect bugs
5	Design	Design document
6	Web page	Web page document
7	Orientation and sizing	Detect the orientation and the size of the car plate
8	Stage testing	Test the previous algorithm to detect bugs
9	Vertical and horizontal projection	Implement vertical and horizontal projection algorithms
10	Stage testing	Test the previous algorithm to detect bugs
11	Character template matching	Implement the character template matching algorithm
12	Stage testing	Test the previous algorithm to detect bugs
13	Syntactical analysis	Check if the plate respects respects the Irish car plate standards
14	Stage testing	Test the previous algorithm to detect bugs
15	System testing	Test the whole system to detect bugs
16	User manual	User manual document
17	Project report	Project report document
18	Code listings	Code listings
19	Project installation CD	Installation CD of the project

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